

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

Construction Phase Monthly EM&A Report No. 93 (For September 2023)

October 2023

## This Monthly EM&A Report No. 93 has been reviewed and certified by the Environmental Team Leader (ETL) in accordance with

Condition 3.5 of Environmental Permit No. EP-489/2014.

Certified by:

Terence Kong

Environmental Team Leader (ETL) Mott MacDonald Hong Kong Limited

Date 13 October 2023



**AECOM** 

+852 3922 9000 tel

12/F, Grand Central Plaza, Tower 2, 138 Shatin Rural Committee Road, Shatin, Hong Kong 香港新界沙田鄉事會路 138 號新城 市中央廣場第 2 座 12 樓 www.aecom.com

Our Ref: 60440482/C/RMKY231013

#### 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

13 October 2023

Dear Sir,

Contract No. 3102 3RS Independent Environmental Checker Consultancy Services

#### Submission of Monthly EM&A Report No. 93 (September 2023)

Reference is made to the Environmental Team's submission of the Monthly EM&A Report No. 93 under Condition 3.5 of the Environmental Permit No. EP-489/2014 certified by the ET Leader on 13 October 2023.

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

Should you have any query, please feel free to contact the undersigned at 3922 9141.

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		
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		
HOKLAS	Hong Kong Laboratory Accreditation Scheme		
HSF	High Speed Ferry		
HVS	High Volume Sampler		
IEC	Independent Environmental Checker		
LKC	Lung Kwu Chau		
MMHK	Mott MacDonald Hong Kong Limited		
MMWP	Marine Mammal Watching Plan		
MSS	Maritime Surveillance System		
MTRMP-CAV	Marine Travel Routes and Management Plan for		
	Construction and Associated Vessel		
NEL	Northeast Lantau		
NWL	Northwest Lantau		
PAM	Passive Acoustic Monitoring		
PM	Project Manager		
SC	Sha Chau		
SCZ	Speed Control Zone		
SCLKCMP	Sha Chau and Lung Kwu Chau Marine Park		
SS	Suspended Solids		
SSSI	Site of Special Scientific Interest		
STG	Encounter Rate of Number of Dolphin Sightings		
	_ =		

SWL	Southwest Lantau
T2	Terminal 2
The Project	The Expansion of Hong Kong International Airport into a Three-Runway System
The SkyPier Plan	Marine Travel Routes and Management Plan for High Speed Ferries of SkyPier
The Manual	The Updated EM&A Manual
TSP	Total Suspended Particulates
WL	West Lantau
WMP	Waste Management Plan

## **Executive summary**

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

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

This is the 93<sup>rd</sup> Construction Phase Monthly 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 to 30 September 2023.

#### **Key Activities in the Reporting Period**

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 together with taxiways, concourse, 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**

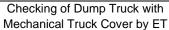
The monthly EM&A programme was undertaken in accordance with the Manual of the Project. Summary of the monitoring activities during this reporting period is presented as below:

Monitoring Activities	Number of Sessions
1-hour Total Suspended Particulates (TSP) air quality monitoring	30
Noise monitoring	16
Water quality monitoring	12
Vessel line-transect surveys for Chinese White Dolphin (CWD) monitoring	2
Land-based theodolite tracking survey effort for CWD monitoring	2

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 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.

#### **Snapshots of EM&A Activities in the Reporting Period**







Marine Water Quality Monitoring conducted by ET



Checking of Wastewater Treatment Facility by ET

#### **Results of Impact Monitoring**

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

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

#### **Summary of Upcoming Key Issues**

#### **Contract 3206 Main Reclamation Works**

Filling materials delivery.

#### **Airfield Works**

#### Contract 3302 Eastern Vehicular Tunnel Advance Works

- Construction of tunnel structure;
- Pipe and drainage diversion works; and
- Utilities and backfilling works.

#### **Contract 3305 Airfield Ground Lighting System**

- Enhanced vehicular warning light hardware installation;
- Power supply system installation; and
- Cable containment installation.

#### Contract 3306 Observation Facility Control System Supporting Interim 2RS and 3RS

- Equipment installation; and
- Structured cabling.

#### Contract 3308 Foreign Object Debris Detection System

- Rectification work for handover sensor system; and
- Construction of foundation.

#### **Contract 3310 North Runway Modification Works**

- Architectural, builder's work and finishing works;
- Rock armour laying works;
- Construction of stormwater drainage;
- Construction of vehicular tunnel;
- Aviation fuel pipe works;
- · Construction of box culvert; and
- Land improvement works (Transition layer and backfilling works).

#### **Third Runway Concourse:**

#### Contract 3403 New Integrated Airport Centres Building and Civil Works

- Electrical and mechanical works; and
- Demolition of antenna tower.

#### **Contract 3404 Integrated Airport Control System**

System maintenance.

#### Contract 3405 Third Runway Concourse Foundation and Substructure Works

- Structure works;
- Road formation:
- Marine sediment treatment works; and
- Tunnel concreting and backfilling works.

#### Contract 3408 Third Runway Concourse and Apron Works

- Building services and architectural, builder's work and finishing works;
- Fuel pipe installation works;
- Utilities works;
- Marine sediment treatment works;
- Erection works for concrete batching plant; and
- Excavation and reinforced concrete works.

#### **Terminal 2 Expansion:**

#### **Contract 3508 Terminal 2 Expansion Works**

- Pier construction;
- Drainage construction;
- Construction of beams and columns;
- Pump station and electrical station works; and
- Architectural, builder's work and finishing works.

#### <u>Automated People Mover (APM) and Baggage Handling System (BHS):</u>

#### Contract 3601 New Automated People Mover System (TRC Line)

Guide beam installation.

#### **Contract 3602 Existing APM System Modification Works**

Concrete plinth construction.

#### **Contract 3603 Baggage Handling System (BHS)**

- BHS installation; and
- Steel work installation.

#### **Airport Support Infrastructure:**

#### Contract 3801 APM and BHS Tunnels on Existing Airport Island

- Backfilling works;
- Road base works;
- Road reinstatement works; and
- Pipe pile trimming.

#### Contract 3802 APM and BHS Tunnels and Related Works

- Excavation and lateral supports;
- Box culvert construction and superstructure works; and
- APM and BHS Tunnel construction.

#### **Contract 3804 East and Landside Fire Stations**

- Site setup and formation works;
- Bored pile works;
- Raft foundation, footing and superstructure works;
- Tower crane footing and erection works; and
- Pile cap construction works.

#### **Contract 3805 New Airport District Police Operational Base**

Bored pile works.

#### **Construction Support (Services / Licences):**

#### **Contract 3901A Concrete Batching Facility**

Operation of concrete batching plant and material conveyor belt.

#### **Contract 3901B Concrete Batching Facility**

• Operation of concrete batching plant and material conveyor belt.

#### **Contract 3908 Quay Management Services**

- Provision of services of site management and logistic control of 3RS quays; and
- Provision of flat top barge and vehicle delivery services between the launching point in Hong Kong and 3RS quays.

#### **Contract 3913 Asphalt Batching Plant**

• Operation of asphalt batching plant.

#### **Utilities:**

#### 132kV Cable

- Cable trenching and cable layering;
- Duct installation and cable duct mandrill test;
- Backfilling; and
- Draw pit opening.

#### **Summary Table**

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

	Yes	No	Details	Analysis / Recommendation / Remedial Actions
Breach of Limit Level^		$\checkmark$	No breach of Limit Level was recorded.	Nil
Breach of Action Level^		√	No breach of Action Level was recorded.	Nil
Complaint Received		<b>V</b>	No construction activities- related complaint was received during the reporting period.	Nil
Notification of any summons and status of prosecutions		<b>V</b>	No notification of summons nor prosecution was received.	Nil
Change that affect the EM&A		<b>V</b>	There was no change to the construction works that may affect the EM&A.	Nil

Note:

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

## 1 Introduction

#### 1.1 Background

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

Airport Authority Hong Kong (AAHK) commissioned Mott MacDonald Hong Kong Limited (MMHK) to undertake the role of Environmental Team (ET) for carrying out the Environmental Monitoring & Audit (EM&A) works during the construction phase of the Project in accordance with the Updated EM&A Manual (the Manual) submitted under EP Condition 3.1<sup>1</sup>. 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 Section 1.4.

#### 1.2 Scope of this Report

This is the 93<sup>rd</sup> Construction Phase Monthly EM&A Report for the Project which summarises the key findings of the EM&A programme during the reporting period from 1 to 30 September 2023.

#### 1.3 Project Organisation

The Project's organisation structure presented in Appendix B of the Construction Phase Monthly EM&A Report No.1 remained unchanged during the reporting period. Contact details of the key personnel are presented in **Table 1.1**.

**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)	Environmental Team Leader	Terence Kong	2828 5919
(Mott MacDonald Hong Kong Limited)	Deputy Environmental	Heidi Yu	2828 5704
Rong Emilion)	Team Leaders	Ken Wong	2828 5817

<sup>&</sup>lt;sup>1</sup> The Manual is available on the Project's dedicated website (accessible at: <a href="http://env.threerunwaysystem.com/en/index.html">http://env.threerunwaysystem.com/en/index.html</a>).

Party	Position	Name	Telephone
Independent Environmental Checker (IEC)	Independent Environmental Checker	Roy Man	3922 9141
(AECOM Asia Company Limited)	Deputy Independent Environmental Checker	Jackel Law	3922 9376
Reclamation Works:			
Party	Position	Name	Telephone
Contract 3206	Project Manager	Alan Mong	3763 1352
Main Reclamation Works (ZHEC-CCCC-CDC Joint Venture)	Environmental Officer	Zhang Bin Wang	3763 1525
airfield Works:			
Party	Position	Name	Telephone
Contract 3302 Eastern Vehicular Tunnel Advance Works	Project Manager	Dickey Yau	5699 4503
(China Road and Bridge Corporation)	Environmental Officer	Dennis Ho	5645 0563
Contract 3305 Airfield Ground Lighting System	Project Manager	Allam Al-Turk	2944 9725
(ADB Safegate Hong Kong Limited)	Environmental Officer	Ivan Ting	9222 9490
Contract 3306 Observation Facility	Project Director	Dennis Yam	9551 9920
Control System Supporting Interim 2RS and 3RS (Chinney Alliance Engineering Limited)	Environmental Officer	Richard Liu	9216 8990
Contract 3307 Fire Training Facility	Project Manager	Ken Tang	9640 5397
(Paul Y. Construction Company Limited)	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 North Runway	Project Manager	Kingsley Chiang	9424 8437
Modification Works (China State Construction Engineering (Hong Kong) Ltd.)	Environmental Officer	Federick Wong	9842 2703
hird Runway Concours	se:		
Party	Position	Name	Telephone
Contract 3402 New Integrated Airport Centres	Project Manager	Wyman Lau	6112 9753
Enabling Works (Wing Hing Construction Co., Ltd.)	Health Safety Environmental Manager	Mike Leung	6625 2550

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

#### Terminal 2 (T2) Expansion:

Party	Position	Name	Telephone
Contract 3508 Terminal 2 Expansion Works	Project Director	Richard Ellis	6201 5637
(Gammon Engineering & Construction Company Limited)	Environmental Officer	Fanny Law	6184 4650

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

Party	Position	Name	Telephone
Contract 3601 New Automated People Mover	Project Manager	Hongdan Wei	158 6180 9450
System (TRC Line) (CRRC Puzhen Bombardier Transportation Systems Limited and CRRC Nanjing Puzhen Co., Ltd. Joint Venture)	Environmental Officer	H Y Yue	9185 8186
Contract 3602 Existing APM System Modification Works	Project Manager	Xia Bo	6586 4950
(Niigata Transys Co., Ltd.)	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	Senior Project Manager	Thomas Lui	9011 5340
Support Infrastructure Works (China State Construction Engineering (Hong Kong) Ltd.)	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	Project Manager	Kingsley Chiang	9424 8437
Airport Island (China State Construction Engineering (Hong Kong) Ltd.)	Environmental Officer	Eunice Kwok	9243 1331
Contract 3802 APM and BHS Tunnels and Related Works	Project Director	John Adams	6111 6989
(Gammon Engineering & Construction Company Limited)	Environmental Officer	Ruby Hui	6218 6408
Contract 3804 East and Landside Fire Stations (Beijing Urban	Project Manager	Mr. Zhang Xianda	4661 6818
Construction Group Company Limited - Beijing Urban Construction International Company Limited - Kin Shing (Leung's) General Contractors Ltd Joint Venture)	Environmental Officer	Ms. Kimberly Wong	5542 1669
Contract 3805 New Airport District Police	Project Manager	Cheuk Wing Wai	9339 8321
Operational Base (Chinney Construction Co., Ltd.)	Environmental Officer	Mike Li	6306 8547

#### **Construction Support (Services / Licences):**

Party	Position	Name	Telephone
Contract 3901A Concrete Batching Facility	Project Manager	Benedict Wong	9553 2806
(K. Wah Concrete Company Limited)	Environmental Officer	C P Fung	9874 2872
	General Manager	Gabriel Chan	2435 3260

Party	Position	Name	Telephone
Contract 3901B Concrete Batching Facility (Gammon Construction Limited)	Environmental Officer	Rex Wong	2695 6319
Contract 3908 Quay Management Services	Project Manager	Mr. Ian Li	9750 6438
(Gitanes – Crown Asia Joint Venture)	Environmental Officer	Mr. Tang Kai Fun	9406 3526
Contract 3913 Asphalt	Project Manager	Xie Yi Sheng	6580 6005
Batching Plant (SPR Joint Venture)	Environmental Officer	Kenneth Chan	9300 2182
Utilities:			
Party	Position	Name	Telephone

Ken Fung

Ivan Shek

6391 9087

9822 5836

#### 1.4 Summary of Construction Works

132 kV Cable

Limited)

(CLP Power Hong Kong Limited / Kum Shing (K.F.) Construction Company

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 together with taxiways, concourse, 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.

The locations of key construction activities are presented in Figure 1.1.

#### 1.5 Summary of EM&A Programme Requirements

Engineer

Project Engineer

The status for all environmental aspects are presented in **Table 1.2**. The EM&A requirements remained unchanged during the reporting period.

Table 1.2: Summary of Status of 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.

Parameters	EM&A Requirements	Status
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.	On-going for reclamation works.  General impact water quality monitoring for water jetting works was completed on 23 May 2017.
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 and would be resumed if there are marine-based DCM works in the coming future.
Sewerage and Sewage Tre	eatment	
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 <sub>2</sub> 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 H₂S monitoring proposal was accepted by EPD in Jun 2023.
Waste Management		
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.
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.
Contamination Assessment Reports (CAR) for Terminal 2 Emergency Power Supply Systems	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 Egretry	Once per month in the breeding season between April and July, prior to the commencement of HDD drilling works.	The Egretry Survey Plan was submitted and approved by EPD under EP Condition 2.14.
Survey Plan	<u> </u>	
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.

Parameters	EM&A Requirements	Status
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.
Post-Translocation Coral 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 PAM: For the whole duration for land formation related construction works.	On-going
Landscape & Visual		
Landscape & 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	Monitor and check	On-going

Parameters	EM&A Requirements	Status
Silt Curtain Deployment Plan implementation measures	Monitor and check	On-going
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 On-going

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

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

• Sixteen environmental management meetings for EM&A review with works contracts: 6, 7, 8, 12, 14, 15, 20, 21, 27, 29 September 2023.

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

## 2 Air Quality Monitoring

Air quality monitoring of 1-hour Total Suspended Particulates (TSP) was conducted three times every six days at two representative monitoring stations in the vicinity of air sensitive receivers in Tung Chung and villages in North Lantau in accordance with the Manual. **Table 2.1** describes the details of the monitoring stations. **Figure 2.1** shows the locations of the monitoring stations.

**Table 2.1: Locations of Impact Air Quality Monitoring Stations** 

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

#### 2.1 Action and Limit Levels

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

Table 2.2: Action and Limit Levels of Air Quality Monitoring

Monitoring Station	Action Level (mg/m³)	Limit Level (mg/m³)
AR1A	306	500
AR2	298	

#### 2.2 Monitoring Equipment

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

**Table 2.3: Air Quality Monitoring Equipment** 

Equipment	Brand and Model	Last Calibration Date	Calibration Certificate Provided in
Portable direct reading dust meter (Laser dust monitor)	SIBATA LD-3B-1 (Serial No. 597337)	4 May 2023	Appendix D of Monthly EM&A Report No. 92

#### 2.3 Monitoring Methodology

#### 2.3.1 Measuring Procedure

The measurement procedures involved in the impact air quality monitoring can be summarised as follows:

- a. The portable direct reading dust meter was mounted on a tripod at a height of 1.2m above the ground.
- b. Prior to the measurement, the equipment was set up for 1 minute span check and 6 second background check.
- c. The one hour dust measurement was started. Site conditions and dust sources at the nearby area were recorded on a record sheet.

d. When the measurement completed, the "Count" reading per hour was recorded for result calculation.

#### 2.3.2 Maintenance and Calibration

The portable direct reading dust meter is calibrated every year against high volume sampler (HVS) to check the validity and accuracy of the results measured by direct reading method. The calibration record of the HVS provided in Appendix D of the Monthly EM&A Report No. 77 and the calibration certificates of portable direct reading dust meters listed in **Table 2.3** are valid in the reporting period.

#### 2.4 Summary of Monitoring Results

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

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

**Table 2.4: Summary of Air Quality Monitoring Results** 

Monitoring Station	1-hr TSP Concentration Range (mg/m³)	Action Level (mg/m³)	Limit Level (mg/m³)
AR1A	16 - 51	306	500
AR2	18 - 47	298	_

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

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

#### 2.5 Conclusion

No dust emission source 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.

## 3 Noise Monitoring

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

**Table 3.1: Locations of Impact Noise Monitoring Stations** 

<b>Monitoring Station</b>	Location	Type of measurement
NM1A	Man Tung Road Park	Free field
NM2 <sup>(1)</sup>	Tung Chung West Development	To be determined
NM3A <sup>(2)</sup>	Site Office	Facade
NM4	Ching Chung Hau Po Woon Primary School	Free field
NM5	Village House in Tin Sum	Free field
NM6	House No. 1, Sha Lo Wan	Free field

#### Notes:

- (1) As described in Section 4.3.3 of the Manual, noise monitoring at NM2 will only commence after occupation of the future Tung Chung West Development.
- (2) According to Section 4.3.3 of the Manual, the noise monitoring at NM3A was temporarily suspended starting from 1 September 2018 and would be resumed with the completion of the Tung Chung East Development.

#### 3.1 Action and Limit Levels

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

Table 3.2: Action and Limit Levels for Noise Monitoring

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

#### Note:

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

#### 3.2 Monitoring Equipment

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

**Table 3.3: Noise Monitoring Equipment** 

Equipment	Brand and Model	Last Calibration Date	Calibration Certificate Provided in
Integrated Sound Level Meter	Rion NL-52 (Serial No. 00998505)	19 Mar 2023	Appendix D of Monthly EM&A Report No.87
Integrated Sound Level Meter	Rion NL-52 (Serial No. 01287679)	10 Oct 2022	Appendix D of Monthly EM&A Report No. 82
Acoustic Calibrator	Castle GA607 (Serial No. 040162)	19 Mar 2023	Appendix D of Monthly EM&A Report No.87
Acoustic Calibrator	Casella CEL-120 (Serial No. 2383737)	18 Jun 2023	Appendix D of Monthly EM&A Report No.91

#### 3.3 Monitoring Methodology

#### 3.3.1 Monitoring Procedure

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

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

#### 3.3.2 Maintenance and Calibration

The maintenance and calibration procedures are summarised below:

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

Calibration certificates of the sound level meters and acoustic calibrators used in the noise monitoring listed in **Table 3.3** are valid in the reporting period.

#### 3.4 Summary of Monitoring Results

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

The noise monitoring results in the reporting period are summarised in **Table 3.4**. Detailed impact monitoring results are presented in **Appendix C**.

**Table 3.4: Summary of Construction Noise Monitoring Results** 

Monitoring Station	Noise Level Range, dB(A) Leq (30mins)	Limit Level, dB(A) Leq (30mins)
NM1A <sup>(1)</sup>	62 - 64	75
NM4 <sup>(1) (3)</sup>	63 - 66	70 <sup>(2)</sup>
NM5 <sup>(1) (3)</sup>	64 - 65	75
NM6 <sup>(1) (3)</sup>	60 - 70	75

#### Notes:

- (1) +3dB(A) Façade correction included;
- (2) The limit level will be reduced to 65dB(A) during school examination periods at NM4. No school examination took place during this reporting period.
- (3) Some of the noise measurement results were higher than the baseline monitoring levels. In order to reduce the influence of non-Project related noise on the monitoring results, these measurement results were corrected with reference to the baseline monitoring results.

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

#### 3.5 Conclusion

As the construction activities were far away from the monitoring stations, major sources of noise dominating the monitoring stations observed during the construction noise impact monitoring were traffic noise near NM1A, school activities near NM4 and aircraft noise near NM6 during this reporting period. It is considered that the monitoring work during the reporting period was effective and there was no adverse impact attributable to the Project activities.

## 4 Water Quality Monitoring

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

**Table 4.1: Monitoring Locations of Impact Water Quality Monitoring** 

<b>Monitoring Station</b>	Description	Coord	dinates	<b>Parameters</b>
		Easting	Northing	
C1	Control Station	804247	815620	General Parameters
C2	Control Station	806945	825682	DO, pH,
C3 <sup>(2)</sup>	Control Station	817803	822109	<ul> <li>Temperature, Salinity, Turbidity, SS</li> </ul>
IM1 <sup>(4)</sup>	Impact Station	806458	818351	
IM2 <sup>(4)</sup>	Impact Station	806236	819183	-
IM7 <sup>(4)</sup>	Impact Station	806835	821349	-
IM10 <sup>(4)</sup>	Impact Station	809838	822240	-
IM11 <sup>(4)</sup>	Impact Station	810545	821501	-
IM12 <sup>(4)</sup>	Impact Station	811519	821162	-
SR1A <sup>(1)</sup>	Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities (HKBCF) Seawater Intake for cooling	812660	819977	General Parameters DO, pH, Temperature, Salinity, Turbidity, SS
SR2	Planned marine park / hard corals at The Brothers / Tai Mo To	814166	821463	General Parameters DO, pH, Temperature, Salinity, Turbidity, SS
SR3	Sha Chau and Lung Kwu Chau Marine Park / fishing and spawning grounds in North Lantau	807571	822147	General Parameters DO, pH, Temperature,
SR4A	Sha Lo Wan	807810	817189	Salinity, Turbidity, SS
SR8 <sup>(3)</sup>	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.

#### 4.1 **Action and Limit Levels**

In accordance with the Manual, baseline water quality levels at the representative water quality monitoring stations were established as presented in the Baseline Water Quality Monitoring Report. The Action and Limit Levels of general water quality monitoring stipulated in the EM&A programme for triggering the relevant investigation and follow-up procedures under the programme are provided in Table 4.2. The control and impact stations during ebb tide and flood tide for general water quality monitoring are presented in Table 4.3.

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

Parameters		Action Leve	el (AL)	Limit Level (LL)	
Action and Lin (excluding SR	nit Levels for general 1A & SR8)	water quality n	nonitoring		
General Water Quality	DO in mg/l (Surface, Middle &	Surface and Middle 4.5mg/l Bottom 3.4mg/l		Surface and Middle 4.1mg/l Bottom 2.7mg/l	
Monitoring	Bottom)				
	Suspended Solids (SS) in mg/l	23	or 120% of upstream control	37	or 130% of upstream control
	Turbidity in NTU	22.6	station at the same tide of the same day, whichever is higher	36.1	station at the same tide of the same day, whichever is higher
Action and Lin	nit Levels SR1A				
SS (mg/l))		33		42	
Action and Lin	nit Levels SR8				
SS (mg/l)		52		60	
Notes:					

#### Notes:

- (1) For DO measurement, non-compliance occurs when monitoring result is lower than the limits.
- (2) For parameters other than DO, non-compliance of water quality results when monitoring results is higher than
- (3) Depth-averaged results are used unless specified otherwise.

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

<b>Control Station</b>	Impact Stations
Flood Tide	
C1	IM1, IM2, IM7, SR3
SR2 <sup>(1)</sup>	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 September 2016 onwards.

#### 4.2 **Monitoring Equipment**

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

**Table 4.4: Water Quality Monitoring Equipment** 

Equipment	Brand and Model	Last Calibration Date	Calibration Certificate Provided in
Multifunctional Meter (measurement of DO, pH, temperature, salinity and turbidity)	YSI ProDSS (Serial No. 15M100005)	23 Jun 2023	Appendix D of Monthly EM&A Report No. 91
	YSI ProDSS (Serial No. 17E100747)	23 Jun 2023	Appendix D of Monthly EM&A Report No. 91
	YSI ProDSS (Serial No. 16H104233)	15 Sep 2023	Appendix D
	YSI ProDSS (Serial No. 21K101468)	15 Sep 2023	Appendix D

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

**Table 4.5: Other Monitoring Equipment** 

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

#### 4.3 Monitoring Methodology

#### 4.3.1 Measuring Procedure

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

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

#### 4.3.2 Maintenance and Calibration

#### Calibration of In-situ Instruments

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

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

Calibration certificates of the monitoring equipment used in the reporting period are listed in **Table 4.4**.

#### 4.3.3 Laboratory Measurement / Analysis

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

Table 4.6: Laboratory Measurement/ Analysis of SS

Parameters	Instrumentation	<b>Analytical Method</b>	Reporting Limit
SS	Analytical Balance	APHA 2540D	2mg/l

#### 4.4 Summary of Monitoring Results

The updated water quality monitoring schedule for the reporting period is provided in **Appendix B**. Monitoring for both ebb and flood tides on 2 September 2023 was cancelled due to No. 8 Southeast Gale or Storm Signal in force.

The water quality monitoring results for all parameters including DO, turbidity and SS obtained during the reporting period were within their corresponding Action and Limit Levels. The detailed monitoring results are presented in **Appendix C**.

#### 4.5 Conclusion

During the reporting period, all monitoring results were within their corresponding Action and Limit Levels. Nevertheless, as part of the EM&A programme, the construction methods and mitigation measures for water quality will continue to be monitored and opportunities for further enhancement will continue to be explored and implemented where possible, to strive for better protection of water quality and the marine environment.

In the meantime, the contractors were reminded to implement and maintain all mitigation measures as recommended in the Manual during weekly site inspections and regular environmental management meetings.

## 5 Waste Management

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

#### 5.1 Action and Limit Levels

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

Table 5.1: Action and Limit Levels for Construction Waste

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

#### 5.2 Waste Management Status

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

Recommendations made included provision and maintenance of proper chemical waste storage area, as well as handling, segregation, and regular disposal of general refuse. The contractors have taken actions to implement the recommended measures. Waste management audits were carried out by ET according to the requirement of the Waste Management Plan, Updated EM&A Manual and the implementation schedule of the waste management mitigation measures in **Appendix A**.

Based on updated contractors' information, construction waste generated in the reporting period is summarised in **Table 5.2**. The ET and IEC have carried out site audits regularly and reviewed the trip ticket system. 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 5.2: Construction Waste Statistics** 

		Project	Reused in other Projects		Chemical Waste (kg)	Chemical Waste (I)	General Refuse (tonne)
Sep 2023 <sup>(2)</sup>	0	865	1,479	4,220	0	0	2,446

#### Notes:

- (1) C&D refers to Construction and Demolition.
- (2) The data was based on the information provided by contractors up to the submission date of this Monthly EM&A Report, and might be updated in the forthcoming Monthly EM&A Report.

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

#### **5.3** Marine Sediment Management

Marine sediment is managed according to the EIA Report, Updated EM&A Manual, 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 sampling process, 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.

Backfilling works for treated marine sediment 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.

## 6 Chinese White Dolphin Monitoring

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

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

#### 6.1 Action and Limit Levels

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

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

NEL, NWL, AW, WL and SWL as a Whole

Action Level <sup>(3)</sup>	Running quarterly <sup>(1)</sup> STG < 1.86 & ANI < 9.35
Limit Level <sup>(3)</sup>	Two consecutive running quarterly <sup>(2)</sup> (3-month) STG < 1.86 & ANI < 9.35

Notes: (referring to the baseline monitoring report)

- (1) Action Level running quarterly encounter rates STG & ANI of this month will be calculated from the reporting period and the two preceding survey months.
- (2) Limit Level two consecutive running quarters mean both the running quarterly encounter rates of the preceding month and the running quarterly encounter rates of this month.
- (3) Action Level and/or Limit Level will be triggered if both STG and ANI fall below the criteria.

#### 6.2 CWD Monitoring Transects and Stations

#### **6.2.1** Small Vessel Line-transect Survey

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

The planned vessel survey transect lines following the waypoints set for construction phase monitoring as proposed in the Manual are depicted in **Figure 6.1** with the waypoint coordinates of all transect lines given in **Table 6.2**, which are subject to on-site refinement based on the actual survey conditions and constraints.

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

Waypoint	Easting	Northing	Waypoint	Easting	Northing
Wayponic	Luoting	NE		Luoting	- Horamig
1S	813525	820900	6N	818568	824433
1N	813525	824657	7S	819532	821420
2S	814556	818449	7N	819532	824209
2N	814559	824768	8S	820451	822125
3S	815542	818807	8N	820451	823671
3N	815542	824882	9S	821504	822371
4S	816506	819480	9N	821504	823761
4N	816506	824859	10S	822513	823268
5S	817537	820220	10N	822513	824321
5N	817537	824613	118	823477	823402
6S	818568	820735	11N	823477	824613
		NV	VL		
1S	804671	814577	5S	808504	821735
1N	804671	831404	5N	808504	828602
2Sb	805475	815457	6S	809490	822075
2Nb	805476	818571	6N	809490	825352
2Sa	805476	820770	7S	810499	822323
2Na	805476	830562	7N	810499	824613
3S	806464	821033	8S	811508	821839
3N	806464	829598	8N	811508	824254
4S	807518	821395	9S	812516	821356
4N	807518	829230	9N	812516	824254
		A	W		
1W	804733	818205	2W	805045	816912
1E	806708	818017	2E	805960	816633
		W	L		
1W	800600	805450	7W	800400	811450
1E	801760	805450	7E	802400	811450
2W	800300	806450	W8	800800	812450
2E	801750	806450	8E	802900	812450
3W	799600	807450	9W	801500	813550
3E	801500	807450	9E	803120	813550
4W	799400	808450	10W	801880	814500
4E	801430	808450	10E	803700	814500
5W	799500	809450	11W	802860	815500
5E	801300	809450	12S/11E	803750	815500
6W	799800	810450	12N	803750	818500
6E	801400	810450			
		SV	VL		
1S	802494	803961	6S	807467	801137
1N	802494	806174	6N	807467	808458
2S	803489	803280	7S	808553	800329
2N	803489	806720	7N	808553	807377
3S	804484	802509	8S	809547	800338
3N	804484	807048	8N	809547	807396
4S	805478	802105	9S	810542	800423
4N	805478	807556	9N	810542	807462
5S	806473	801250	10S	811446	801335
5N	806473	808458	10N	811446	809436

#### 6.2.2 Land-based Theodolite Tracking Survey

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

Table 6.3: Land-based Theodolite Survey Station Details

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

#### 6.3 CWD Monitoring Methodology

#### 6.3.1 Small Vessel Line-transect Survey

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

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

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

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

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

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

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

When CWDs were seen, the survey team was taken off-effort, the dolphins were approached and photographed for photo-ID information (using a Canon 7D [or similar] camera and long 300 mm+

telephoto lens), then followed until they were lost from view. At that point, the boat returned (off effort) to the survey line at the closest point after obtaining photo records of the dolphin group and began to survey on effort again.

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

#### 6.3.2 Photo Identification

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

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

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

#### 6.3.3 Land-based Theodolite Tracking Survey

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

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

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

#### 6.4 Monitoring Results and Observations

#### 6.4.1 Small Vessel Line-transect Survey

#### **Survey Effort**

Within this reporting period, two complete sets of small vessel line-transect surveys were conducted on the 6, 13, 15, 18, 20, 21, 22 and 25 September 2023 covering all transects in NEL, NWL, AW, WL and SWL survey areas for twice.

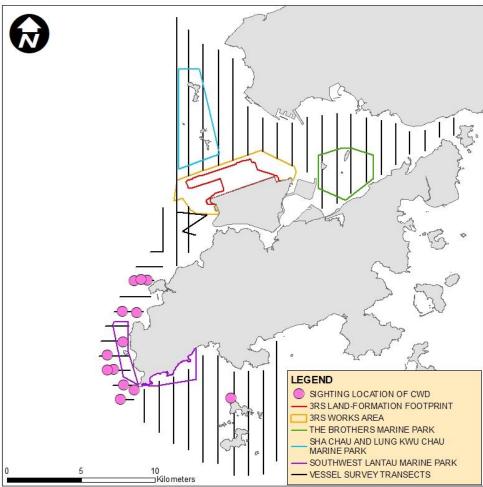
A total of around 430.72 km of survey effort was collected from these surveys and all survey effort was being conducted under favourable weather condition (i.e. Beaufort Sea State 3 or below with favourable visibility). Details of the survey effort are given in **Appendix C**.

#### **Sighting Distribution**

In the current reporting period, 13 sightings with 32 dolphins were sighted. All these sightings were on-effort records under favourable weather condition (i.e. Beaufort Sea State 3 or below with favourable visibility). Details of dolphin sightings are presented in **Appendix C**.

Distribution of all CWD sightings recorded in the current reporting period is illustrated in **Figure 6.3**. In WL, CWD sightings were scattered at the waters between Tai O and Fan Lau. In SWL, a CWD sighting was recorded at the north of Soko Islands. There was no CWD sighting recorded in NWL and NEL survey areas during the reporting period.

Figure 6.3: Sightings Distribution of Chinese White Dolphins



Remarks: (1) Please note that there are 13 pink circles on the map indicating the sighting locations of CWDs. Some of them were very close to each other and therefore may appear overlapped on this distribution map. (2) Marine park excludes land area and the landward boundary generally follows the high water mark along the coastline.

#### **Encounter Rate**

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

#### Encounter Rate by Number of Dolphin Sightings (STG)

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

#### Encounter Rate by Number of Dolphins (ANI)

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

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

In this reporting period, a total of around 430.72 km of survey effort was conducted under Beaufort Sea State 3 or below with favourable visibility, whilst a total number of 13 on-effort sightings with 32 dolphins were sighted under such condition. Calculation of the encounter rates for the month are shown in **Appendix C**.

For the running quarter of the reporting period (i.e., from July to September 2023), a total of around 1328.76 km of survey effort was conducted under Beaufort Sea State 3 or below with favourable visibility, whilst a total number of 44 on-effort sightings and a total number of 133 dolphins from on-effort sightings were obtained under such condition. Calculation of the running quarterly encounter rates are shown in **Appendix C**.

The STG and ANI of CWD in the whole survey area (i.e. NEL, NWL, AW, WL and SWL) during the reporting period and during the running quarter are presented in **Table 6.4** below and compared with the Action Level. Both the running quarterly encounter rate STG and ANI remain above the Action Level, and the Action Level is not triggered.

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

	Encounter Rate (STG)	Encounter Rate (ANI)
September 2023	3.02	7.43
Running Quarter from July to September 2023 <sup>(1)</sup>	3.31	10.01
Action Level	Running quarterly <sup>(1)</sup> ST	G < 1.86 & ANI < 9.35

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

#### **Group Size**

In the current reporting period, 13 groups of 32 dolphins in total were sighted, and the average group size of CWDs was 2.5 dolphins per group. The majority of the CWD sightings was having small group size (i.e. 1-2 dolphins). There was no CWD sighting with large group size (i.e. 10 or more dolphins) recorded in the current reporting period.

#### **Activities and Association with Fishing Boats**

There was one CWD sighting recorded engaging in foraging activities in the current reporting period in SWL survey areas. No sightings were observed in association with any fishing boat.

#### **Mother-calf Pair**

In this reporting period, there were two sightings with the presence of mother-and-unspotted juvenile pair, recorded in WL and SWL.

#### 6.4.2 Photo Identification

In the current reporting period, a total number of 14 different CWD individuals were identified for totally 18 times. A summary of photo identification works is presented in **Table 6.5**. Representative photos of these individuals are given in **Appendix C**.

**Table 6.5: Summary of Photo Identification** 

Individual ID	Date of Sighting (dd- mmm-yy)	Sighting Group No.	Area	Individual ID	Date of Sighting (dd- mmm-yy)	Sighting Group No.	Area
NLMM001	21-Sep-23	2	WL	SLMM059	21-Sep-23	4	WL
NLMM016	13-Sep-23	1	SWL			6	WL
NLMM028	21-Sep-23	3	WL	SLMM060	13-Sep-23	1	SWL
NLMM058	20-Sep-23	2	WL	WLMM003	21-Sep-23	2	WL
NLMM063	21-Sep-23	3	WL			3	WL
SLMM002	21-Sep-23	5	WL	WLMM043	20-Sep-23	1	WL
SLMM044	21-Sep-23	7	WL		21-Sep-23	2	WL
SLMM049	13-Sep-23	1	SWL	WLMM056	13-Sep-23	1	SWL
	21-Sep-23	7	WL	WLMM191	20-Sep-23	2	WL

#### 6.4.3 Land-based Theodolite Tracking Survey

#### **Survey Effort**

Land-based theodolite tracking surveys were conducted at LKC on 21 September 2023 and at SC on 26 September 2023, with a total of two days of land-based theodolite tracking survey effort accomplished in this reporting period. No CWD were tracked off at LKC and SC stations during the reporting period. Information of survey effort and CWD groups are presented in **Table 6.6**. Details of the survey effort are presented in **Appendix C**.

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

Land-based Station	No. of Survey Sessions	Survey Effort (hh:mm)	No. of CWD Groups Sighted	CWD Group Sighting per Survey Hour
Lung Kwu Chau (LKC)	1	6:00	0	0
Sha Chau (SC)	1	6:00	0	0
TOTAL	2	12:00	0	0

#### 6.5 Progress Update on Passive Acoustic Monitoring

Underwater acoustic monitoring using Passive Acoustic Monitoring (PAM) should be undertaken during land formation related construction works. 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. During this reporting period, the F-POD was remained underwater and positioned at south of Sha Chau Island inside the SCLKCMP (**Figure 6.4**). The F-POD was last retrieved on 1 August 2023 and the next retrieval and re-deployment is schedule in mid-October 2023. Acoustic data would be reviewed to give an indication of CWD occurrence patterns and anthropogenic noise information. Analysis would involve use of proprietary software for objective automated data analyses and experienced analysts to perform visual validation for assessment of dolphin detection. As the period of data collection and analysis takes about four months, PAM results could not be reported in monthly intervals but report for supplementing the annual CWD monitoring analysis.

#### 6.6 Site Audit for CWD-related Mitigation Measures

During the reporting period, two dolphin observation stations and teams of at least two dolphin observers were deployed by the contractor for continuous monitoring of the DEZ for rock armour laying works in accordance with the DEZ Plan. No trainings 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 705 individuals being trained and the training records kept by the ET. From the contractors' records, no dolphin or other marine mammals were observed during this reporting month. These contractors' records were also audited by the ET during site inspection.

Audits of SkyPier high speed ferries route diversion and speed control and construction vessel management are presented in **Section 7.4** and **Section 7.5** respectively.

#### 6.7 Timing of reporting CWD Monitoring Results

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

#### 6.8 Summary of CWD Monitoring

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

# 7 Environmental Site Inspection and Audit

#### 7.1 Environmental Site Inspection

Site inspections of the construction works 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. The weekly site inspection schedule of the construction works is provided in **Appendix B**. 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 recommended mitigation measures where necessary in order to advise contractors on environmental improvement, awareness and on-site enhancement measures. The observations were made with reference to the following information during the site inspections:

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

Good site practices were observed in site inspections during the reporting period. Advice 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 A**.

#### 7.2 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 A**) was monitored in accordance with the Manual. All measures undertaken by both the contractor and the landscape contractor during the construction phase and first year of the operation phase shall be audited by a landscape architect, as a member of the ET, on a regular basis to ensure compliance with the intended aims of the measures. Site inspections shall be undertaken at least once every two months during the operation phase.

The implementation status of the environmental protection measures is summarized below in Table 7.1. Examples of landscape and visual mitigation measures are shown in Table 7.2. The monitoring programme for detailed design, construction, establishment works and long term management (10 years) stages is presented in Table 7.3. Event and Action Plan for Landscape and Visual impacts is stated in Table 7.4.

Table 7.1: Landscape and Visual – Construction Phase Audit Summary

**Landscape and Visual Mitigation Measures during** Construction

**Implementation Status** 

Relevant Contract(s) in the Reporting Period

CM1- The construction area and contractor's temporary works areas shall be minimised to avoid impacts on adjacent landscape.

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 Under Specification. 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

The implementation of mitigation measures was checked All works contracts by ET during weekly site inspection and reported by the Contractors during the monthly Environmental Management Meetings. Implementation of the measures

CM5, CM6 and CM7 by Contractors was observed.

Tree Protection Specifications were provided in the 3302, 3508, 3801 relevant Contract Specifications respectively implementation by the Contractors under the Project.

The Contractors' performance on the implementation of the tree maintenance and protection measures were observed and checked by the ET weekly during construction period.

#### **Landscape and Visual Mitigation Measures during** Construction

#### **Implementation Status**

Relevant Contract(s) in the Reporting **Period** 

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 3508, 3801 relevant Contract Specifications respectively for implementation by the Contractors under the Project where trees would 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.

Long term management of the transplanted trees was currently monitored by ET annually.

SCM10 - Land formation works shall followed with advanced hydroseeding around taxiways and runways as soon as practical

The advanced hydroseeding works around taxiways and To be implemented runways were partially completed at this stage and would resume in next phase.

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 determined and agreed separately with Government during the Tree Felling Application process under the relevant technical circulars.(1)

The first batch of compensatory tree was planted and the 3RS Project first bi-monthly site inspection for the 12-month contracts establishment period was undertaken in June 2023. A photo showing the general view of compensatory planting was shown in Table 7.2. Next inspection will be conducted in October 2023.

#### Note:

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

#### Table 7.2: Examples of Landscape and Visual Mitigation Measures in the Reporting Periods



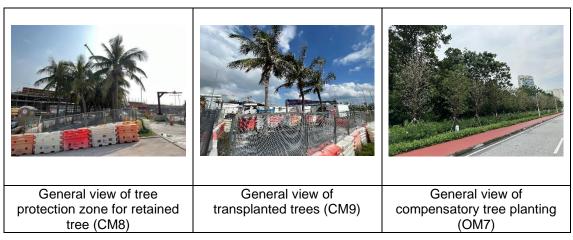
Erection of site hoardings around works area in unobtrusive colours (CM5)



Avoidance of excessive height and bulk of site buildings (CM6)



Control of night-time lighting using light hooding and minimisation of night working period (CM7)



In accordance with the Updated EM&A Manual, all existing trees shall be protected carefully during construction. Trees unavoidably affected by the works shall be transplanted where practical. In this reporting period, the cumulative total number of retained trees and transplanted trees under the Project were 37 and 26 respectively. A works area including 9 retained trees was handed over from Contract 3302 to AAHK during the reporting period. Thus, these 9 nos. of trees have been excluded from the Project.

Details of the retained trees, transplanted trees and to-be-transplanted trees under the Project are summarized in **Table 7.5**. Details of the retained trees are to be discussed in the Quarterly EM&A reports.

Table 7.3: Monitoring Programme for Landscape and Visual

Stage	Monitoring Task	Monitoring Report	Form of Approval	Frequency
Detailed Design	Checking of design works against the recommendations of the landscape and visual impact assessments within the EIA shall be undertaken during detailed design and tender stage, to ensure that they fulfil the intention of the mitigation measures. Any changes to the design, including design changes on site shall also be checked.	Report by AAHK / PM confirming that the design conforms to requirements of EP.	Approved by Client	At the end of the Detailed Design Phase
Construction	Checking of the contractor's operations during the construction period.	Report on Contractor's compliance, by ET	Counter signature of report by IEC	Weekly
Establishment Works	Checking of the planting works during the twelve-month Establishment Period after completion of each batch of transplanting works.	Report on Contractor's compliance, by ET	Counter signature of report by IEC	Every two months
Long Term Management (10 year)	Monitoring of the long-term management of the planting works in the period up to 10 years after completion of each batch of transplanting works.	Report on compliance by ET or maintenance Agency as appropriate	Counter signature of report by Management Agency	Annually

Table 7.4: Event and Action Plan for Landscape and Visual

<b>Event Action</b>		Acti	ion	
Level	ET	IEC	AAHK/PM	Contractor
Design Check	Check final design conforms to the requirements of EP and prepare report.	Check report. Recommend remedial design if necessary.	Undertake remedial design if necessary.	
Non-conformity on one occasion	Identify source. Inform IEC and AAHK / PM. Discuss remedial actions with IEC, AAHK / PM and Contractor. Monitor remedial actions until rectification has been completed.	Check report. Check Contractor's working method. Discuss with ET and Contractor on possible remedial measures. Advise AAHK / PM on effectiveness of proposed remedial measures. Check implementation of remedial measures.	Notify Contractor. Ensure remedial measures are properly implemented.	Amend working methods to prevent recurrence of nonconformity.  Rectify damage and undertake additional action necessary.
Repeated Non-conformity	Identify source. Inform IEC and AAHK / PM. Increase monitoring frequency. Discuss remedial actions with IEC, AAHK / PM and Contractor. Monitor remedial actions until rectification has been completed. If non-conformity stops, cease additional monitoring.	Check monitoring report. Check Contractor's working method. Discuss with ET and Contractor on possible remedial measures. Advise AAHK / PM on effectiveness of proposed remedial measures. Supervise implementation of remedial measures.	Notify Contractor. Ensure remedial measures area properly implemented.	Amend working methods to prevent recurrence of non-conformity. Rectify damage and undertake additional action necessary.

Table 7.5: Summary of the Number of Retained, Transplanted and To-be-transplanted Trees in the Reporting Period

Contract	Retain (nos.)	Transplan	Transplanted (nos.)		
No.		Establishment Period	Maintenance Period		
3302	0	0	0	0	
3503 <sup>(1)</sup>	0	0	9	0	
3508	34	0	12	0	
3801	3	0	5	0	
Grand Total	37	0	26	0	

Note:

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

Summary of the updated transplanted trees and photos are presented in **Table 7.6**.

Table 7.6: Summary of the Transplanted Trees Updated in the Reporting Period

Tree ID	Transplant Date	Management Stage	Management Agency	Remarks
CT276	3 May 2018	Long Term Management period Jun 2019 – May 2028	Southern Landside Petrol Filling Station	Establishment Period was completed. Next inspection will be conducted in February 2024.  Photos of the last inspection in
CT1253	4 May 2018	Long Term Management period Jun 2019 – May 2028	Southern Landside Petrol Filling Station	February 2023 can be referred to Table 7.7 of the Construction Phase Monthly EM&A Report No. 86.
T835	22 Jan 2020	Long Term Management period Feb 2021 – Jan 2030	AAHK	Establishment Period was completed. Next inspection will be conducted in February 2024.
T836	13 Dec 2019	Long Term Management period Feb 2021 – Jan 2030	AAHK	Photos of the last inspection in February 2023 can be referred to Table 7.7 of the Construction
T838	22 Jan 2020	Long Term Management period Feb 2021 – Jan 2030	AAHK	Phase Monthly EM&A Report No. 86.
T812	21 Dec 2020	Long Term Management period Jan 2022 – Dec 2031	AAHK	Establishment Period was completed. Next inspection will
T814	20 Dec 2020	Long Term Management period Jan 2022 – Dec 2031	AAHK	<ul> <li>be conducted in December 2023. Photos of the last inspection in December 2022</li> </ul>
T815	15 Dec 2020	Long Term Management period Jan 2022 – Dec 2031	AAHK	<ul> <li>can be referred to Table 7.7 of the Construction Phase Monthly EM&amp;A Report No.84.</li> </ul>
T829	18 Dec 2020	Long Term Management period Jan 2022 – Dec 2031	ААНК	-
T830	14 Dec 2020	Long Term Management period Jan 2022 – Dec 2031	ААНК	-
T831	19 Dec 2020	Long Term Management period Jan 2022 – Dec 2031	AAHK	-
T1493	6 Jul 2021	Long Term Management period Aug 2022 – Jul 2031	Contract 3508	Establishment Period was completed. Next inspection will
T1494	6 Jul 2021	Long Term Management period Aug 2022 – Jul 2031	Contract 3508	<ul> <li>be conducted in July 2024.</li> <li>Photos of the last inspection in July 2023 can be referred to</li> </ul>
T1495	10 Jul 2021	Long Term Management period Aug 2022 – Jul 2031	Contract 3508	<ul> <li>Table 7.7 of the Construction Phase Monthly EM&amp;A Report No. 91.</li> </ul>
T1496	5 Jul 2021	Long Term Management period Aug 2022 – Jul 2031	Contract 3508	-
T1497	5 Jul 2021	Long Term Management period Aug 2022 – Jul 2031	Contract 3508	-
T1498	29 Jun 2021	Long Term Management period Aug 2022 – Jul 2031	Contract 3508	-
T1499	29 Jun 2021	Long Term Management period Aug 2022 – Jul 2031	Contract 3508	_
T1500	30 Jun 2021	Long Term Management period Aug 2022 – Jul 2031	Contract 3508	-
T1501	30 Jun 2021	Long Term Management period Aug 2022 – Jul 2031	Contract 3508	-
T1502	5 Jul 2021	Long Term Management period	Contract 3508	-

Tree ID	Transplant Date	Management Stage	Management Agency	Remarks
		Aug 2022 – Jul 2031		
T1503	6 Jul 2021	Long Term Management period Aug 2022 – Jul 2031	Contract 3508	
T1504	24 Jun 2021	Long Term Management period Aug 2022 – Jul 2031	Contract 3508	
CT1194	4 May 2018	Long Term Management period Jun 2019 – May 2028	Southern Landside Petrol Filling Station	Establishment Period was completed. 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 Filing Station.
CT1794	3 May 2018	Long Term Management period Jun 2019 – May 2028	AsiaWorld-Expo	Establishment Period was completed. 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	Long Term Management period Jun 2019 – May 2028	AsiaWorld-Expo	Establishment Period was completed. 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.

#### 7.3 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 issued no further comment for aforesaid CARs. No leakage was found after the removal of underground fuel pipelines of T2 EPSS and all required additional photos have been submitted to EPD.

According to the approved supplementary CAP, there are 3 remaining locations where site reappraisal / additional site investigation are proposed. Site re-appraisal was conducted at one of the above remaining locations, fire training facilities on 22 August 2023. The findings of the reappraisal is under review during the reporting period and will be updated in the next monthly EM&A report. The status of site re-appraisal/ additional site investigation of the 2 remaining locations shall be further updated upon latest development programme is available.

#### 7.4 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 needs, the SkyPier HSF services to/from Zhuhai has been suspended until further notice. Key audit findings for the SkyPier HSF travelling to/from Macau against the requirements of the SkyPier Plan during the reporting period are summarised in **Table 7.7**. The daily movement of all SkyPier HSFs, including those not using the diverted route, in this reporting period (i.e., 42 to 54 daily movements) were within the maximum daily cap of 125 daily movements. Status of compliance with the annual daily average of 99 movements will be further reviewed in the Annual EM&A Report.

In total, 24 ferry movements between HKIA SkyPier and Macau were recorded in September 2023 and the data are presented in **Appendix G**. The time spent by the SkyPier HSF travelling through the SCZ in September 2023 was presented in **Figure 7.1.** It will take 9.6 minutes to travel through the SCZ when the SkyPier HSFs adopt the maximum allowable speed of 15 knots within the SCZ. **Figure 7.1** shows that all the SkyPier HSF spent more than 9.6 minutes to travel through the SCZ.

Duration of Ferry Movements through SCZ for Sep-2023 20 18 Time travelled through the SCZ (minutes) 16 14 12 10 Time required for travelling 8 through SCZ at speed of 6 15 knots (9.6 minutes) 2 15-Sep-2023 17-Sep-2023 23-Sep-2023 30-Sep-2023 02-Sep-2023 03-Sep-2023 06-Sep-2023 07-Sep-2023 08-Sep-2023 09-Sep-2023 10-Sep-2023 12-Sep-2023 13-Sep-2023 14-Sep-2023 16-Sep-2023 18-Sep-2023 20-Sep-2023 21-Sep-2023 22-Sep-2023 25-Sep-2023 26-Sep-2023 28-Sep-2023 29-Sep-2023 05-Sep-2023 11-Sep-2023 19-Sep-2023 24-Sep-202

Figure 7.1: Duration of the SkyPier HSFs travelling through the SCZ for September 2023

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

Table 7.7: Summary of Key Audit Findings against the SkyPier Plan

1 to 30 September 2023
24
0 deviation
The average speed of all HSFs travelling through the SCZ ranged from 11.1 to 13.3 knots. All HSFs had travelled through the SCZ with average speed under 15 knots in compliance with the SkyPier Plan. The time used by HSFs to travel through SCZ is presented in Figure 7.1.
42 to 54 daily movements

#### 7.5 Audit of Construction and Associated Vessels

The updated MTRMP-CAV was approved by EPD on 31 May 2022 under EP Condition 2.9. The approved Plan is available on the dedicated website of the Project.

ET carried out the following actions during the reporting period:

- The MSS automatically recorded deviation cases such as speeding, entering no entry zone and not travelling through the designated gate. ET conducted checking to ensure the MSS records deviation cases accurately.
- Deviations such as speeding within the works area, entering from non-designated gates and entering no entry zone were identified. All the concerned contractors were reminded to comply with the requirements of the MTRMP-CAV during the bi-weekly Construction Traffic Control Centre (CTCC) audit.
- Three-month rolling programmes (one month record and three months forecast) for construction vessel activities were received from the contractors in order to help maintain the number of construction and associated vessels on site to a practicable minimal level.

#### 7.6 Implementation of Dolphin Exclusion Zone

The DEZ Plan was submitted in accordance with EP Condition 3.1 (v) requirement and Section 10.3 of the Manual, and approved in April 2016 by EPD. The ET checked the contractors' dolphin sighting record and relevant records to audit the implementation of DEZ and there was no finding.

During the reporting period, there was no dolphin sighting within the DEZ.

#### 7.7 Status of Submissions under Environmental Permits

The current status of submissions under the EP up to the reporting period is presented in **Table 7.8**.

Table 7.8: Status of Submissions under Environmental Permit

EP Condition	Submission	Status
2.1	Complaint Management Plan	
2.4	Management Organizations	•
2.5	Construction Works Schedule and Location Plans	•
2.7	Marine Park Proposal	•
2.8	Marine Ecology Conservation Plan	•
2.9	Marine Travel Routes and Management Plan for Construction and Associated Vessels	
2.10	Marine Travel Routes and Management Plan for High Speed Ferries of SkyPier	•
2.11	Marine Mammal Watching Plan	Accepted /
2.12	Coral Translocation Plan	approved by EPD
2.13	Fisheries Management Plan	. 2. 5
2.14	Egretry Survey Plan	•
2.15	Silt Curtain Deployment Plan	•
2.16	Spill Response Plan	•
2.17	Detailed Plan on Deep Cement Mixing	•
2.18	Landscape & Visual Plan	•
2.19	Waste Management Plan	•
2.20	Supplementary Contamination Assessment Plan	•

EP Condition	Submission	Status
3.1	Updated EM&A Manual	_
3.4	Baseline Monitoring Reports	

#### 7.8 Compliance with Other Statutory Environmental Requirements

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

# 7.9 Analysis and Interpretation of Complaints, Notification of Summons and Status of Prosecutions

#### 7.9.1 Complaints

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

#### 7.9.2 Notifications of Summons or Status of Prosecution

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

#### 7.9.3 Cumulative Statistics

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

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

#### 8.1 Construction Programme for the Coming Reporting Period

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

#### **Contract 3206 Main Reclamation Works**

Filling materials delivery.

#### **Airfield Works:**

#### Contract 3302 Eastern Vehicular Tunnel Advance Works

- Construction of tunnel structure;
- Pipe and drainage diversion works; and
- Utilities and backfilling works.

#### **Contract 3305 Airfield Ground Lighting System**

- Enhanced vehicular warning light hardware installation;
- Power supply system installation; and
- Cable containment installation.

#### Contract 3306 Observation Facility Control System Supporting Interim 2RS and 3RS

- Equipment installation; and
- Structured cabling.

#### Contract 3308 Foreign Object Debris Detection System

- Rectification work for handover sensor system; and
- Construction of foundation.

#### **Contract 3310 North Runway Modification Works**

- Architectural, builder's work and finishing works;
- Rock armour laying works;
- Construction of stormwater drainage;
- Construction of vehicular tunnel;
- Aviation fuel pipe works;
- · Construction of box culvert; and
- Land improvement works (Transition layer and backfilling works).

#### **Third Runway Concourse:**

#### Contract 3403 New Integrated Airport Centres Building and Civil Works

- Electrical and mechanical works: and
- Demolition of antenna tower.

#### **Contract 3404 Integrated Airport Control System**

System maintenance.

#### Contract 3405 Third Runway Concourse Foundation and Substructure Works

- Structure works;
- Road formation;
- · Marine sediment treatment works; and

Tunnel concreting and backfilling works.

#### **Contract 3408 Third Runway Concourse and Apron Works**

- Building services and architectural, builder's work and finishing works;
- Fuel pipe installation works;
- Utilities works;
- Marine sediment treatment works;
- Erection works for concrete batching plant; and
- Excavation and reinforced concrete works.

#### **Terminal 2 Expansion:**

#### **Contract 3508 Terminal 2 Expansion Works**

- Pier construction;
- Drainage construction;
- Construction of beams and columns;
- Pump station and electrical station works; and
- Architectural, builder's work and finishing works.

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

#### Contract 3601 New Automated People Mover System (TRC Line)

Guide beam installation.

#### **Contract 3602 Existing APM System Modification Works**

Concrete plinth construction.

#### Contract 3603 Baggage Handling System (BHS)

- BHS installation; and
- Steel work installation.

#### **Airport Support Infrastructure:**

#### Contract 3801 APM and BHS Tunnels on Existing Airport Island

- Backfilling works;
- Road base works;
- Road reinstatement works; and
- Pipe pile trimming.

#### Contract 3802 APM and BHS Tunnels and Related Works

- Excavation and lateral supports;
- Box culvert construction and superstructure works; and
- APM and BHS Tunnel construction.

#### **Contract 3804 East and Landside Fire Stations**

- Site setup and formation works;
- Bored pile works;
- Raft foundation, footing and superstructure works;
- · Tower crane footing and erection works; and
- Pile cap construction works.

#### **Contract 3805 New Airport District Police Operational Base**

Bored pile works.

#### **Construction Support (Services / Licences):**

#### **Contract 3901A Concrete Batching Facility**

Operation of concrete batching plant and material conveyor belt.

#### **Contract 3901B Concrete Batching Facility**

Operation of concrete batching plant and material conveyor belt.

#### **Contract 3908 Quay Management Services**

- Provision of services of site management and logistic control of 3RS quays; and
- Provision of flat top barge and vehicle delivery services between the launching point in Hong Kong and 3RS quays.

#### **Contract 3913 Asphalt Batching Plant**

Operation of asphalt batching plant.

#### **Utilities:**

#### 132kV Cable

- Cable trenching and cable layering;
- Duct installation and cable duct mandrill test;
- Backfilling; and
- Draw pit opening.

#### 8.2 Key Environmental Issues for the Coming Reporting Period

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

- Generation of dust from construction works and stockpiles;
- Noise from operating equipment and machinery on-site;
- Generation of site surface runoffs and wastewater from activities on-site;
- DEZ monitoring for rock armour laying works;
- Sorting, recycling, storage and disposal of general refuse and construction waste;
- Reuse of treated marine sediments from piling and excavation works; and
- Management of chemicals and avoidance of oil spillage on-site.

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

#### 8.3 Monitoring Schedule for the Coming Reporting Period

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

#### 8.4 Review of the Key Assumptions Adopted in the EIA Report

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

### 9 Conclusion and Recommendation

The key activities of the Project carried out in the reporting period 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 together with taxiways, concourse, 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.

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

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

Weekly site inspections of the construction works were carried out by the ET to audit the implementation of proper environmental pollution control and mitigation measures for the Project. Bi-weekly site inspections were also conducted by the IEC. Site inspection findings were recorded in the site inspection checklists and provided to the contractors to follow up.

On the implementation of the SkyPier Plan, the daily movements of all SkyPier HSFs in the reporting period, including those not using the diverted route, were in the range of 42 to 54 daily movements, which are within the maximum daily cap of 125 daily movements. A total of 24 HSFs movements under the SkyPier Plan were recorded in the reporting period. The average speed of all HSFs travelling through the SCZ ranged from 11.1 to 13.3 knots. All HSFs travelled through the SCZ with average speed under 15 knots 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.

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

# **Figures**

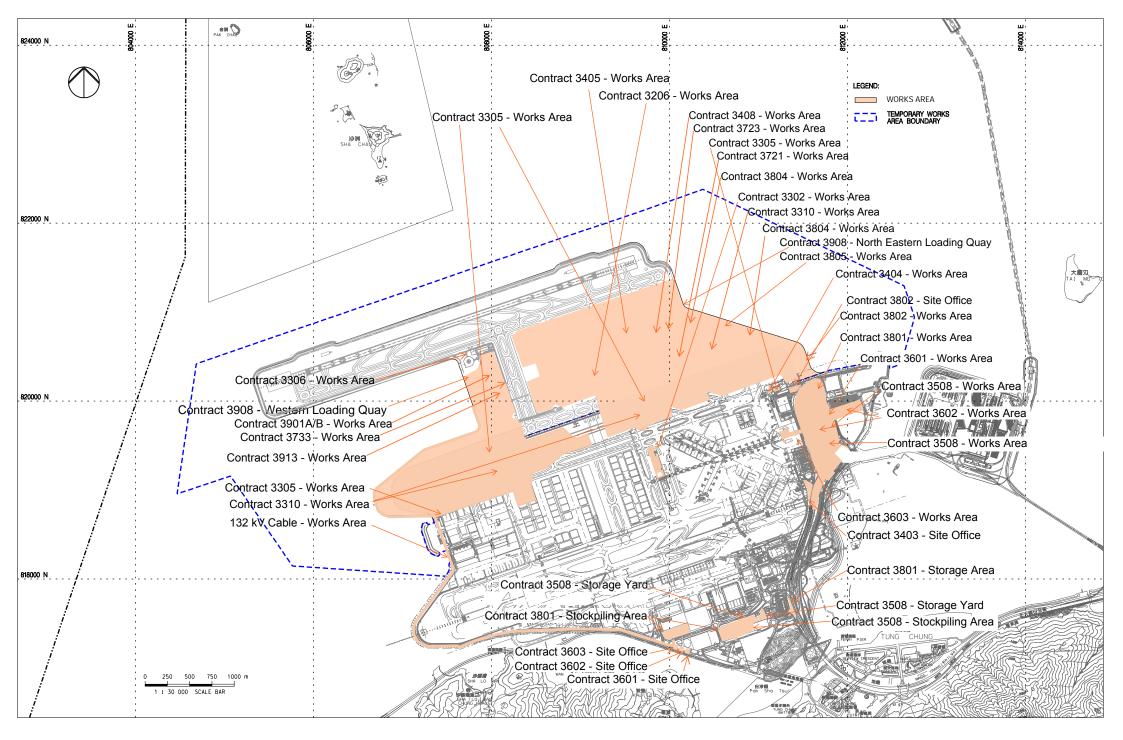
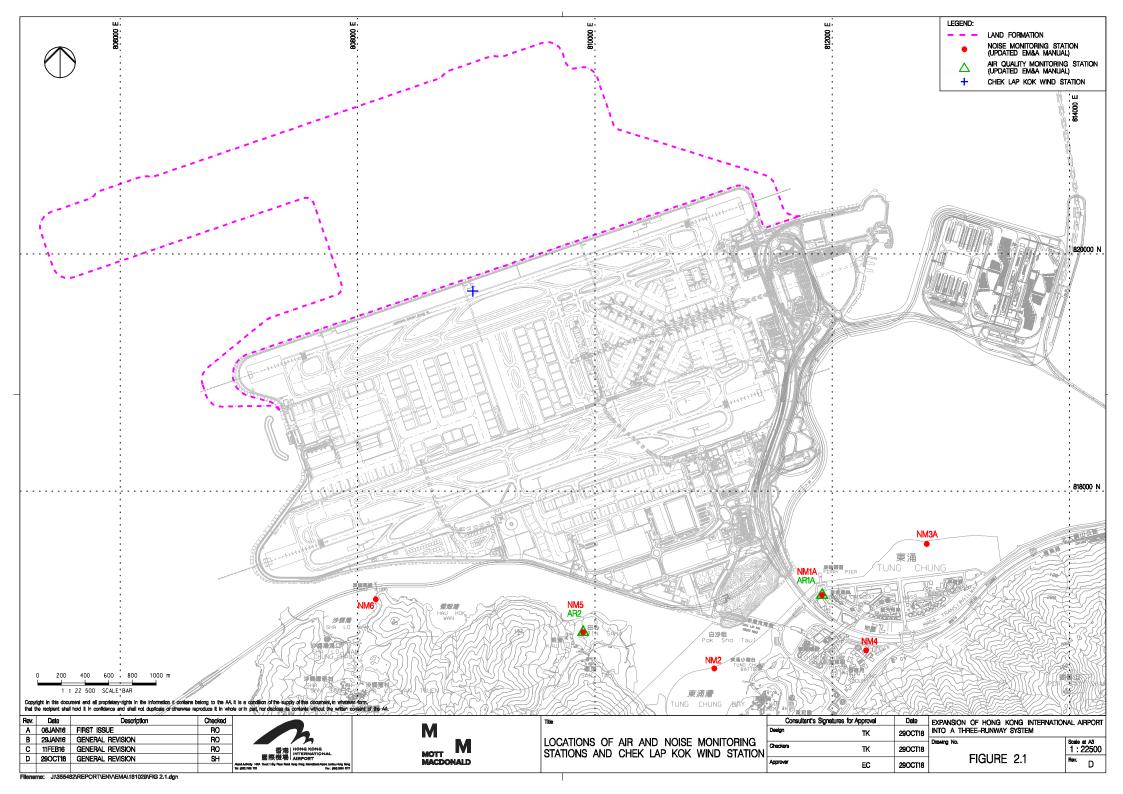
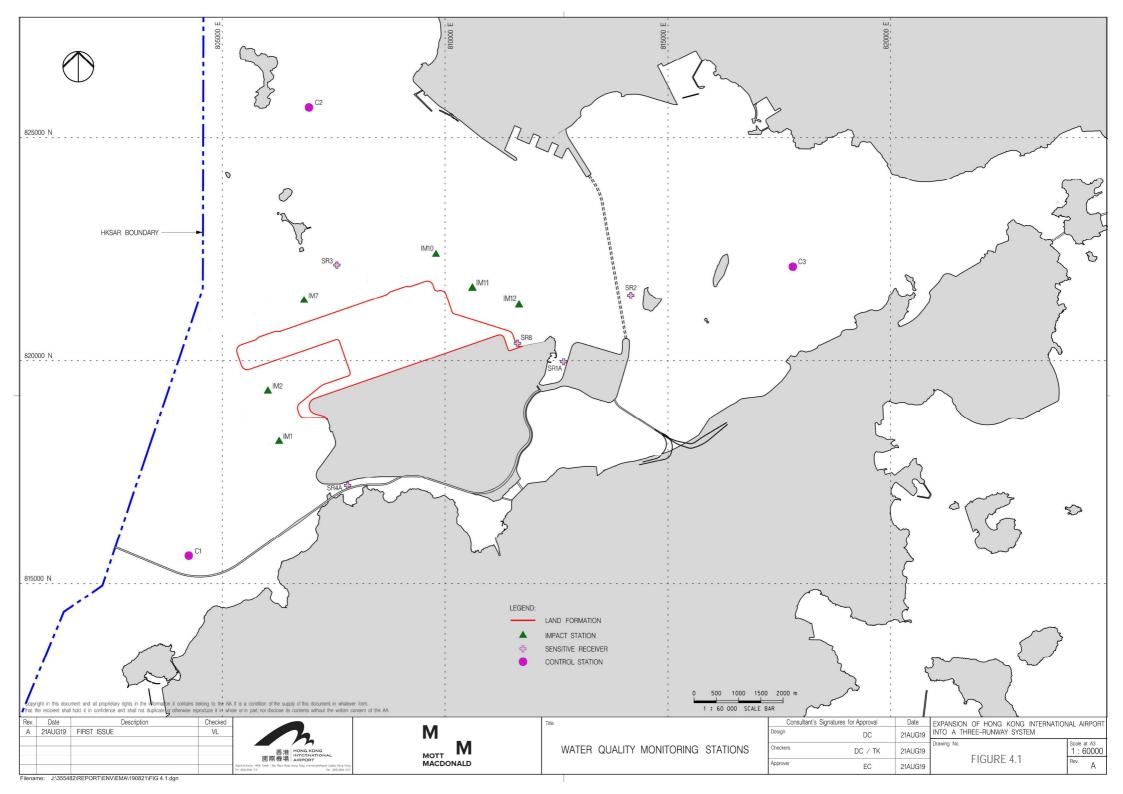
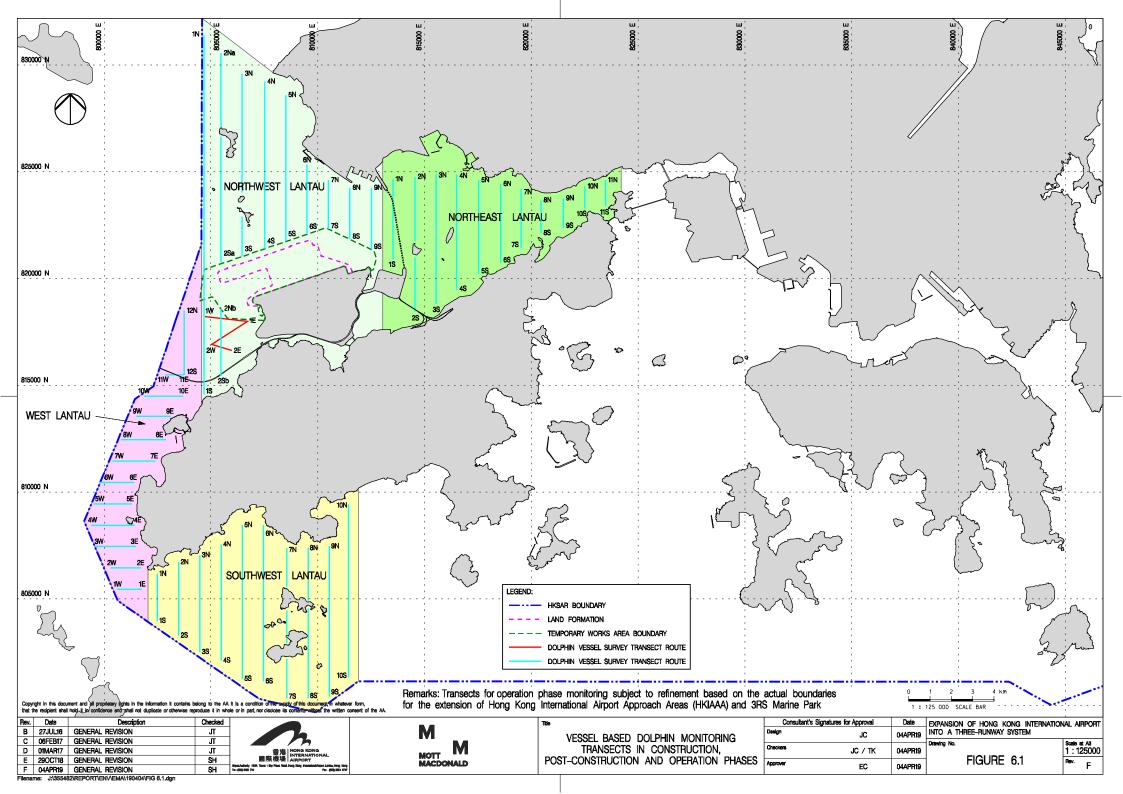
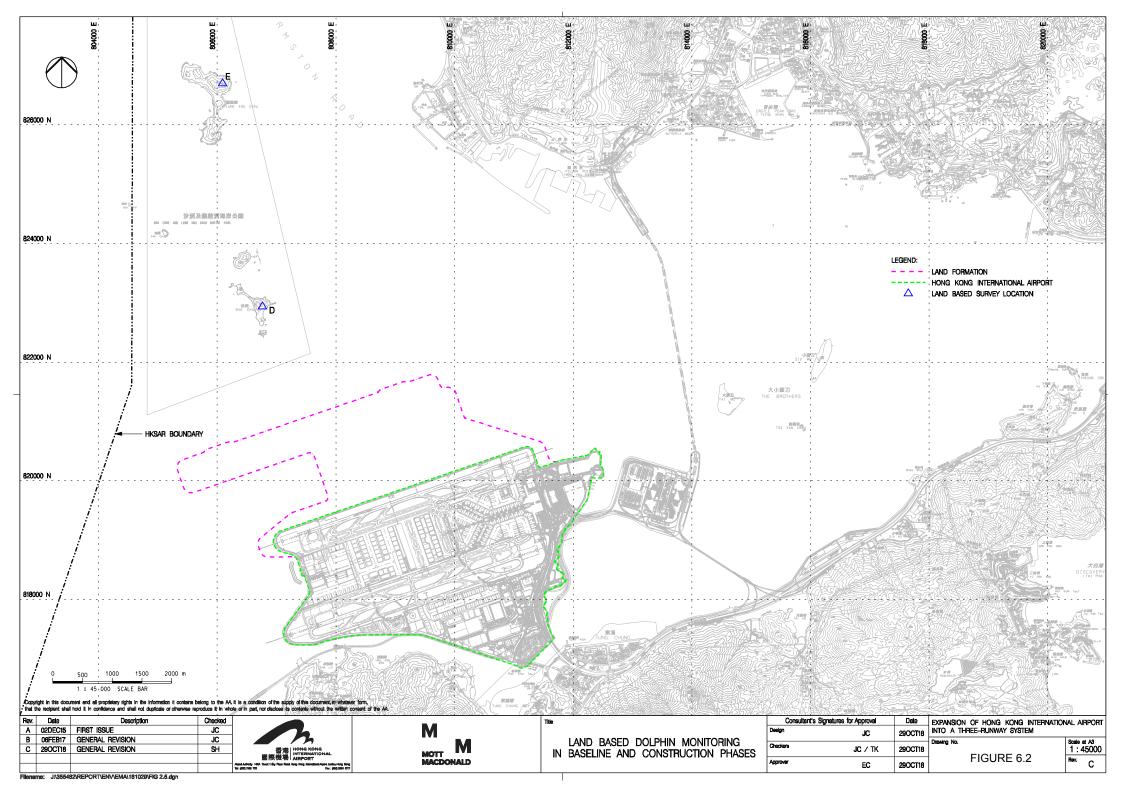


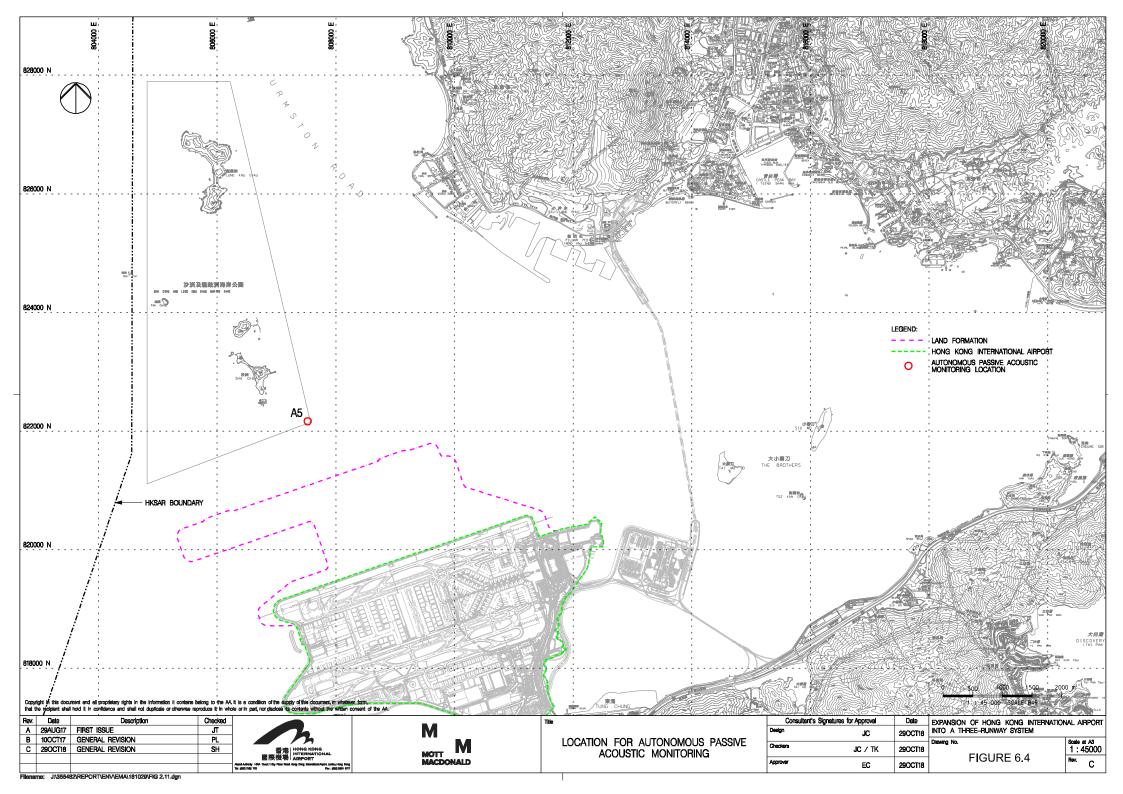
FIGURE 1.1 LOCATIONS OF KEY CONSTRUCTION ACTIVITIES











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



# Environmental Mitigation Implementation Schedule (EMIS) for Construction Phase

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			Air Quality Impact – Construction Phase		
5.2.6.2	2.1	-	Dust Control Measures ■ Water spraying for 12 times a day or once every two hours for 24-hour working at all active works area.	Within construction site / Duration of the construction phase	1
5.2.6.3	2.1	-	<ul> <li>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.</li> </ul>	Within construction site / Duration of the construction phase	I
5.2.6.4	2.1	-	Dust control practices as stipulated in the Air Pollution Control (Construction Dust) Regulation should be adopted. These practices include:  Good Site Management  Good site management is important to help reducing potential air quality impact down to an acceptable level. As a general guide, the Contractor should maintain high standard of housekeeping to prevent emission of fugitive dust. Loading, unloading, handling and storage of raw materials, wastes or byproducts should be carried out in a manner so as to minimise the release of visible dust emission. Any piles of materials accumulated on or around the work areas should be cleaned up regularly. Cleaning, repair and maintenance of all plant facilities within the work areas should be carried out in a manner minimising generation of fugitive dust emissions. The material should be handled properly to prevent fugitive dust emission before cleaning.	Within construction site / Duration of the construction phase	I
			Disturbed Parts of the Roads  Each and every main temporary access should be paved with concrete, bituminous hardcore materials or metal plates and kept clear of dusty materials; or  Unpaved parts of the road should be sprayed with water or a dust suppression chemical so as to keep the entire road surface wet.	Within construction site / Duration of the construction phase	I
			<ul> <li>Exposed Earth</li> <li>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.</li> </ul>	Within construction site / Duration of the construction phase	I



	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures	Mitigation Measures Implemented?^
				Timing of completion of measures	implemented?"
			Loading, Unloading or Transfer of Dusty Materials	Within construction	1
			<ul> <li>All dusty materials should be sprayed with water immediately prior to any loading or transfer operation so as to keep the dusty material wet.</li> </ul>	site / Duration of the construction phase	
			Debris Handling	Within construction	1
			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	site / Duration of the construction phase	
			■ Before debris is dumped into a chute, water should be sprayed so that it remains wet when it is dumped.		
			Transport of Dusty Materials	Within construction	1
			<ul> <li>Vehicle used for transporting dusty materials/spoils should be covered with tarpaulin or similar material.</li> <li>The cover should extend over the edges of the sides and tailboards.</li> </ul>	site / Duration of the construction phase	
			Wheel washing	Within construction	1
			<ul> <li>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.</li> </ul>	site / Duration of the construction phase	
			Use of vehicles	Within construction	1
			<ul> <li>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;</li> </ul>	site / Duration of the construction phase	
			<ul> <li>Immediately before leaving the construction site, every vehicle should be washed to remove any dusty materials from its body and wheels; and</li> </ul>		
			• 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.		
			Site hoarding	Within construction	1
			• 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.	site / Duration of the construction phase	
5.2.6.5	2.1	-	Best Practices for Concrete Batching Plant	Within Concrete	1
			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:	Batching Plant / Duration of the construction phase	
			Cement and other dusty materials		



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures	Mitigation Measures
				Timing of completion of measures	Implemented?
			• The loading, unloading, handling, transfer or storage of cement, pulverised fuel ash (PFA) and/or other equally dusty materials shall be carried in a totally enclosed system acceptable to EPD. All dust-laden air or waste gas generated by the process operations shall be properly extracted and vented to fabric filtering system to meet the required emission limit;		
			• Cement, PFA and/or other equally dusty materials shall be stored in storage silo fitted with audible high-level alarms to warn of over-filling. The high-level alarm indicators shall be interlocked with the material filling line such that in the event of the silo approaching an overfilling condition, an audible alarm will operate, and after 1 minute or less the material filling line will be closed;		
			<ul> <li>Vents of all silos shall be fitted with fabric filtering system to meet the required emission limit;</li> </ul>		
			<ul> <li>Vents of cement/PFA weighing scale shall be fitted with fabric filtering system to meet the required emission limit; and</li> </ul>		
			<ul> <li>Seating of pressure relief valves of all silos shall be checked, and the valves re-seated if necessary, before each delivery.</li> </ul>		
			Other raw materials	Within Concrete	1
			<ul> <li>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;</li> </ul>	Batching Plant / Duration of the construction phase	
			• 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;		
			<ul> <li>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;</li> </ul>		
			• 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;		
			<ul> <li>All conveyor transfer points shall be totally enclosed. Openings for the passage of conveyors shall be fitted with adequate flexible seals;</li> </ul>		
			<ul> <li>Scrapers shall be provided at the turning points of all conveyors to remove dust adhered to the belt surface;</li> </ul>		
			<ul> <li>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;</li> </ul>		
			<ul> <li>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;</li> </ul>		



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			<ul> <li>The stockpile shall be enclosed at least on top and three sides and with flexible curtain to cover the entrance side;</li> </ul>		
			<ul> <li>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</li> </ul>		
			■ The opening between the storage bin and weighing scale of the materials shall be fully enclosed.		
			Loading of materials for batching	Within Concrete	I
			Concrete truck shall be loaded in such a way as to minimise airborne dust emissions. The following control measures shall be implemented:	Batching Plant / Duration of the	
			(a) Pre-mixing the materials in a totally enclosed concrete mixer before loading the materials into the concrete truck is recommended. All dust-laden air generated by the pre-mixing process as well as the loading process shall be totally vented to fabric filtering system to meet the required emission limit; and	construction phase	
			(b) If truck mixing batching or other types of batching method is used, effective dust control measures acceptable to EPD shall be adopted. The dust control measures must have been demonstrated to EPD that they are capable to collect and vent all dust-laden air generated by the material loading/mixing to dust arrestment plant to meet the required emission limit.		
			■ The loading bay shall be totally enclosed during the loading process.		
			Vehicles	Within Concrete	I
			<ul> <li>All practicable measures shall be taken to prevent or minimize the dust emission caused by vehicle movement; and</li> </ul>	Batching Plant / Duration of the	
			• All access and route roads within the premises shall be paved and adequately wetted.	construction phase	
			Housekeeping	Within Concrete	I
			• 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.	Batching Plant / Duration of the construction phase	
5.2.6.6	2.1	-	Best Practices for Asphaltic Concrete Plant	Within Concrete	1
			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:	Batching Plant / Duration of the construction phase	
			Design of Chimney		
			• The chimney shall not be less than 3 metres plus the building height or 8 metres above ground level, whichever is the greater;		
			■ The efflux velocity of gases from the main chimney shall not be less than 12 m/s at full load condition;		



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures	Mitigation Measures
				Timing of completion of measures	Implemented? <sup>4</sup>
			■ The flue gas exit temperature shall not be less than the acid dew point; and		
			<ul> <li>Release of the chimney shall be directed vertically upwards and not be restricted or deflected.</li> </ul>		
			Cold feed side	Within Concrete	I
			<ul> <li>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;</li> </ul>	Batching Plant / Duration of the construction phase	
			• 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;		
			<ul> <li>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;</li> </ul>		
			<ul> <li>All conveyor transfer points shall be totally enclosed. Openings for the passages of conveyors shall be fitted with adequate flexible seals; and</li> </ul>		
			<ul> <li>All materials returned from dust collection system shall be transferred in enclosed system and shall be stored inside bins or enclosures.</li> </ul>		
			Hot feed side	Within Concrete	1
			• 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;	Batching Plant / Duration of the construction phase	
			• 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;		
			<ul> <li>All vibratory screens shall be totally enclosed and dust tight with close-fitted access inspection opening.</li> <li>Gaskets shall be installed to seal off any cracks and edges of any inspection openings;</li> </ul>		
			<ul> <li>Chutes for carrying hot material shall be rigid and preferably fitted with abrasion resistant plate inside.</li> <li>They shall be inspected daily for leakages;</li> </ul>		
			• 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		



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures	Mitigation Measures Implemented?^
				Timing of completion of measures	implemented:
			<ul> <li>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).</li> </ul>		
			Material transportation	Within Concrete	1
			• 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;	Batching Plant / Duration of the construction phase	
			<ul> <li>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</li> </ul>		
			<ul> <li>Haul roads inside the Works shall be adequately wetted with water and/or chemical suppressants by water trucks or water sprayers.</li> </ul>		
			Control of emissions from bitumen decanting	Within Concrete	1
			<ul> <li>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;</li> </ul>	Batching Plant / Duration of the	
			<ul> <li>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;</li> </ul>	construction phase	
			<ul> <li>Proper chimney for the discharge of bitumen fumes shall be provided at high level;</li> </ul>		
			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.		
			Liquid fuel	Within Concrete	1
			• 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.	Batching Plant / Duration of the construction phase	
			Housekeeping	Within Concrete	1
			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.	Batching Plant / Duration of the construction phase	
5.2.6.7	2.1	-	Best Practices for Rock Crushing Plants	Within Concrete	N/A as there was
			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:	Batching Plant / Duration of the construction phase	no rock crushing plant at this stag
			Crushers		



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures	Mitigation Measures
				Timing of completion of measures	Implemented?^
			• 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;		
			<ul> <li>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;</li> </ul>		
			<ul> <li>Water sprayers shall be installed and operated in strategic locations at the feeding inlet of crushers; and</li> </ul>		
			<ul> <li>Crusher enclosures shall be rigid and be fitted with self-closing doors and close-fitting entrances and exits.</li> <li>Where conveyors pass through the crusher enclosures, flexible covers shall be installed at entries and exits of the conveyors to the enclosure.</li> </ul>		
			Vibratory screens and grizzlies	Within Concrete	N/A as there was
			• 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	Batching Plant / Duration of the construction phase	no rock crushing plant at this stage
			<ul> <li>All grizzlies shall be enclosed on top and 3 sides and sufficient water sprayers shall be installed at their feeding and outlet areas.</li> </ul>		
			Belt conveyors	Within Concrete	N/A as there was
			<ul> <li>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;</li> </ul>	Batching Plant / Duration of the construction phase	no rock crushing plant at this stage
			• Effective belt scraper such as the pre-cleaner blades made by hard wearing materials and provided with pneumatic tensioner, or equivalent device, shall be installed at the head pulley of designated conveyor as required to dislodge fine dust particles that may adhere to the belt surface and to reduce carry-back of fine materials on the return belt. Bottom plates shall also be provided for the conveyor unless it has been demonstrated that the corresponding belt scraper is effective and well maintained to prevent falling material from the return belt; and		
			Except for those transfer points which are placed within a totally enclosed structure such as a screenhouse, all transfer points to and from conveyors shall be enclosed. Where containment of dust within the enclosure is not successful, then water sprayers shall be provided. Openings for any enclosed structure for the passage of conveyors shall be fitted with flexible seals.		
			Storage piles and bins	Within Concrete	N/A as there was
			• 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.	Batching Plant / Duration of the construction phase	no rock crushing plant at this stage



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures	Mitigation Measures
				Timing of completion of measures	Implemented?^
			<ul> <li>The surface of all surge piles and stockpiles of blasted rocks or aggregates shall be kept sufficiently wet by water spraying wherever practicable;</li> </ul>		
			<ul> <li>All open stockpiles for aggregates of size in excess of 5 mm shall be kept sufficiently wet by water spraying where practicable; or</li> </ul>		
			• 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.		
			Rock drilling equipment	Within Concrete	N/A as there was
			<ul> <li>Appropriate dust control equipment such as a dust extraction and collection system shall be used during rock drilling activities.</li> </ul>	Batching Plant / Duration of the construction phase	no rock crushing plant at this stage
			Hazard to Human Life - Construction Phase		
Table 6.40	3.2	-	<ul> <li>Precautionary measures should be established to request barges to move away during typhoons.</li> </ul>	Construction Site / Construction Period	1
Table 6.40	3.2	-	• An appropriate marine traffic management system should be established to minimize risk of ship collision.	Construction Site / Construction Period	1
Table 6.40	3.2	-	■ Location of all existing hydrant networks should be clearly identified prior to any construction works.	Construction Site / Construction Period	I
			Noise Impact – Construction Phase		
7.5.6	4.3	-	Good Site Practice Good site practice and noise management can significantly reduce the impact of construction site activities on nearby NSRs. The following package of measures should be followed during each phase of construction:	Within the Project site / During construction phase / Prior to	I
			<ul> <li>only well-maintained plant to be operated on-site and plant should be serviced regularly during the construction works;</li> </ul>	commencement of operation	
			<ul> <li>machines and plant that may be in intermittent use to be shut down between work periods or should be throttled down to a minimum;</li> </ul>		
			<ul> <li>plant known to emit noise strongly in one direction, should, where possible, be orientated to direct noise away from the NSRs;</li> </ul>		
			<ul> <li>mobile plant should be sited as far away from NSRs as possible; and</li> </ul>		
			<ul> <li>material stockpiles and other structures to be effectively utilised, where practicable, to screen noise from on-site construction activities.</li> </ul>		



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  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	-	<ul> <li>Use of Movable Noise Barriers</li> <li>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.</li> </ul>	Within the Project site / During construction phase / Prior to commencement of operation	I
7.5.6	4.3	-	<ul> <li>Use of Noise Enclosure/ Acoustic Shed</li> <li>Noise enclosure or acoustic shed should be used to cover stationary PME such as air compressor and generator.</li> </ul>	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	<ul> <li>Marine Construction Activities</li> <li>General Measures to be Applied to All Works Areas</li> <li>Barges or hoppers shall not be filled to a level which will cause overflow of materials or pollution of water during loading or transportation;</li> <li>Use of Lean Material Overboard (LMOB) systems shall be prohibited;</li> <li>Excess materials shall be cleaned from the decks and exposed fittings of barges and hopper dredgers before the vessels are moved;</li> <li>Plants should not be operated with leaking pipes and any pipe leakages shall be repaired quickly;</li> </ul>	Within construction site / Duration of the construction phase	I
			<ul> <li>Adequate freeboard shall be maintained on barges to reduce the likelihood of decks being washed by wave action;</li> <li>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;</li> <li>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</li> <li>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.</li> </ul>		



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			<ul> <li>Specific Measures to be Applied to All Works Areas</li> <li>The daily maximum production rates shall not exceed those assumed in the water quality assessment in the EIA report;</li> <li>A maximum of 10 % fines content to be adopted for sand blanket and 20 % fines content for marine filling below 12.5 mPD prior to substantial completion of account (until and of Year 2017) shall be appointed in</li> </ul>	Within construction site / Duration of the construction phase	C – Marine filling works completed in March 2023
			<ul> <li>below +2.5 mPD prior to substantial completion of seawall (until end of Year 2017) shall be specified in the works contract document;</li> <li>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;</li> </ul>		C – Completed ir May 2018
			<ul> <li>Closed grab dredger shall be used to excavate marine sediment;</li> <li>Silt curtains surrounding the closed grab dredger shall be deployed in accordance with the Silt Curtain Deployment Plan; and</li> </ul>		C – Marine filling works completed in March 2023 (The arrangement of
				-	silt curtain has beer modified. The detai can be referred to S Curtain Deploymen Plan)
			The Silt Curtain Deployment Plan shall be implemented.		I – For C7a and localised silt curtains  (All enhanced silt curtain removed sir
			Specific Measures to be Applied to Land Formation Activities prior to Commencement of Marine Filling  Works  Double layer 'Type III' silt curtains to be applied around the active eastern works areas prior to	Within construction site / Duration of the construction phase	March 2023)  C – Marine filling works completed in March 2023
			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;	основнием римсо	(The arrangement silt curtain has bee modified. The detai can be referred to S Curtain Deploymen Plan)
			<ul> <li>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</li> </ul>		I – For C7a
				_	C – Completed Dec 2021 for C



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
					*(The requirement of silt curtain / screen has been modified. The details can be referred to Silt Curtain Deployment Plan)
			■ The silt curtains and silt screens should be regularly checked and maintained.	-	I – For C7a and localised silt curtains
					(All enhanced silt curtain removed since March 2023)
			<ul> <li>Specific Measures to be Applied to Land Formation Activities during Marine Filling Works</li> <li>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</li> </ul>	Within construction site / Duration of the construction phase	C – Marine filling works completed in March 2023
			to minimise SS release during ebb tides;		(The arrangement of silt curtain has been modified. The details can be referred to Silt Curtain Deployment Plan)
			<ul> <li>Double layer silt curtains to be applied at the south-western opening prior to commencement of marine filling activities;</li> </ul>		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> <li>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</li> </ul>		I – For C7a
					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)



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			■ 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	Within construction	N/A – the field
			<ul> <li>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</li> </ul>	site / Duration of the construction phase	joint excavation works for the submarine cable
			Silt curtains surrounding the closed grab dredger to be deployed as a precautionary measure.		diversion will no longer be conducted anymore
8.8.1.4	5.1	-	Modification of the Existing Seawall	At the existing	N/A – the seawall
			Silt curtains shall be deployed around the seawall modification activities to completely enclose the active works areas, and care should be taken to avoid splashing of rockfill / rock armour into the surrounding marine environment. For the connecting sections with the existing outfalls, works for these connection areas should be undertaken during the dry season in order that individual drainage culvert cells may be isolated for interconnection works.	At the existing northern seawall / Duration of the construction phase	modification works undertaken after land formation.
8.8.1.5	5.1	-	Construction of New Stormwater Outfalls and Modifications to Existing Outfalls	Within construction	1
			<ul> <li>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.</li> </ul>	site / Duration of the construction phase	
8.8.1.6	5.1	2.27	Piling Activities for Construction of New Runway Approach Lights and HKIAAA Marker Beacons	Within construction	C – For approach
8.8.1.7			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.	site / Duration of the construction phase	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?^
			For construction of the eastern approach lights at the CMPs	Of filed sures	C – Completed in
			<ul> <li>Ground improvement via DCM using a close-spaced layout shall be completed prior to commencement of piling works;</li> </ul>		Oct 2021
			<ul> <li>Steel casings shall be installed to enclose the excavation area prior to commencement of excavation;</li> </ul>		
			<ul> <li>The excavated materials shall be removed using a closed grab within the steel casings;</li> </ul>		
			<ul> <li>No discharge of the cement mixed materials into the marine environment will be allowed; and</li> </ul>		
			■ Excavated materials shall be treated and reused on-site.		
8.8.1.8	5.1	-	Construction of Site Runoff and Drainage	Within construction	
			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:	site / Duration of the construction phase	
			• 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);		ı
			Sand/silt removal facilities such as sand/silt traps and sediment basins should be provided to remove sand/silt particles from runoff to meet the requirements of the TM-DSS standards under the WPCO. The design of efficient silt removal facilities should make reference to the guidelines in Appendix A1 of ProPECC Note PN 1/94. Sizes may vary depending upon the flow rate. The detailed design of the sand/silt traps should be undertaken by the Contractors prior to the commencement of construction;		I
			<ul> <li>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;</li> </ul>		I
			<ul> <li>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;</li> </ul>		1
			• In the event that contaminated groundwater is identified at excavation areas, this should be treated onsite 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		I



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			• 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> <li>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;</li> </ul>		1
			<ul> <li>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</li> </ul>		I
			<ul> <li>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.</li> </ul>		I
8.8.1.9	5.1	-	Sewage Effluent from Construction Workforce	Within construction	1
			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.	site / During construction phase	
8.8.1.10	5.1		General Construction Activities	Within construction	1
8.8.1.11			<ul> <li>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</li> </ul>	site / During construction phase	
			• Oils and fuels should only be stored in designated areas which have pollution prevention facilities. To prevent spillage of fuels and solvents to any nearby storm water drain, all fuel tanks and storage areas should be provided with locks and be sited on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank. The bund should be drained of rainwater after a rain event.		
8.8.1.12	5.1	2.28	Drilling Activities for the Submarine Aviation Fuel Pipelines	Within construction	C – Completed in
8.8.1.13			To prevent potential water quality impacts at Sha Chau, the following measures shall be applied:	site / During	Jan 2019
			<ul> <li>A 'zero-discharge' policy shall be applied for all activities to be conducted at Sha Chau;</li> </ul>	construction phase	
			■ No bulk storage of chemicals shall be permitted; and		



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures	Mitigation Measures Implemented?^
				Timing of completion of measures	
			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.		
			At the airport island side of the drilling works, the following measures shall be applied for treatment of wastewater:	Within construction site / During	C – Completed in Jan 2019
			<ul> <li>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</li> </ul>	construction phase	
			<ul> <li>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.</li> </ul>		
			Waste Management Implication – Construction Phase		
10.5.1.1	7.1	-	Opportunities to minimise waste generation and maximise the reuse of waste materials generated by the project have been incorporated where possible into the planning, design and construction stages, and the following measures have been recommended:		
			• The relevant construction methods (particularly for the tunnel works) and construction programme have been carefully planned and developed to minimise the extent of excavation and to maximise the on-site reuse of inert C&D materials generated by the project as far as practicable. Temporary stockpiling areas will also be provided to facilitate on-site reuse of inert C&D materials;	Project Site Area / During design and construction phase	1
			<ul> <li>Priority should be given to collect and reuse suitable inert C&amp;D materials generated from other concurrent projects and the Government's PFRF as fill materials for the proposed land formation works;</li> </ul>		1
			<ul> <li>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;</li> </ul>	-	I
			<ul> <li>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</li> </ul>	-	I
			For the marine sediments expected to be excavated from the piling works of TRC, APM & BHS tunnels, airside tunnels and other facilities on the proposed land formation area, piling work of marine sections of the approach lights and HKIAAA beacons, basement works for some of T2 expansion area and excavation works for the proposed APM depot should be treated and reused on-site as backfilling materials, although required treatment level / detail and the specific re-use mode are under development.	-	I
10.5.1.1	7.1	-	The following good site practices should be performed during the construction activities include:	Project Site Area /	1
			<ul> <li>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;</li> </ul>	Construction Phase	



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures	Mitigation Measures Implemented?^
				Timing of completion of measures	
			■ Training of site personnel in proper waste management and chemical waste handling procedures;		
			<ul> <li>Provision of sufficient waste disposal points and regular collection for disposal;</li> </ul>		
			<ul> <li>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;</li> </ul>		
			<ul> <li>Stockpiles of C&amp;D materials should be kept wet or covered by impervious sheets to avoid wind-blown dust;</li> </ul>		
			<ul> <li>All dusty materials including C&amp;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;</li> </ul>		
			<ul> <li>C&amp;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;</li> </ul>		
			■ 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	-	The following practices should be performed to achieve waste reduction include:	Project Site Area /	1
			<ul> <li>Use of steel or aluminium formworks and falseworks for temporary works as far as practicable;</li> </ul>	Construction Phase	
			<ul> <li>Adoption of repetitive design to allow reuse of formworks as far as practicable;</li> </ul>		
			<ul> <li>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;</li> </ul>		
			<ul> <li>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;</li> </ul>		
			<ul> <li>Any unused chemicals or those with remaining functional capacity should be collected for reused as far as practicable;</li> </ul>		
			<ul> <li>Proper storage and site practices to minimise the potential for damage or contamination of construction materials; and</li> </ul>		
			<ul> <li>Plan and stock construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste.</li> </ul>		
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	1



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures	Mitigation Measures
				Timing of completion of 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:  On-site remediation should be carried out in an enclosed area in order to minimise odour/dust emissions;	Project Site Area / Construction Phase	ı
			<ul> <li>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;</li> </ul>		1
			<ul> <li>All practical measures, including but not limited to speed control for vehicles, should be taken to minimise dust emission;</li> </ul>	_	1
			• Good housekeeping should be maintained at all times at the sediment treatment facility and storage area;	_	1
			■ Treated and untreated sediment should be clearly separated and stored separately; and	_	I
			<ul> <li>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.</li> </ul>		1
10.5.1.18	7.1	-	The marine sediments to be removed from the cable field joint area would be disposed of at the designated disposal sites to be allocated by the MFC. The following mitigation measures should be strictly followed to minimise potential impacts on water quality during transportation of the sediments requiring Type 1 disposal:	Project Site Area / Construction Phase	N/A – the field joint excavation works for the
			<ul> <li>Bottom opening of barges shall be fitted with tight fitting seals to prevent leakage of material;</li> </ul>		submarine cable
			<ul> <li>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</li> </ul>		diversion will no longer be conducted anymore
			<ul> <li>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.</li> </ul>		2,
10.5.1.19	7.1	-	Contractor should register with the EPD as a chemical waste producer and to follow the relevant guidelines. The following measures should be implemented:	Project Site Area / Construction Phase	1
			<ul> <li>Good quality containers compatible with the chemical wastes should be used;</li> <li>Incompatible chemicals should be stored separately;</li> </ul>		



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			<ul> <li>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</li> </ul>		
			■ 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	1
			Land Contamination – Construction Phase		
11.10.1.2 to 11.10.1.3	8.1	2.32	For areas inaccessible during site reconnaissance survey  • Further site reconnaissance would be conducted once the areas are accessible in order to identify any land contamination concern for the areas.	Project Site Area inaccessible during site reconnaissance / Prior to Construction Phase	I
			<ul> <li>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.</li> </ul>		C – Completed in Jan 2018
			<ul> <li>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.</li> </ul>		I *(CAR for golf course and Terminal 2 emergency power supply system nos.1, 2, 3, 4 and 5 were submitted to EPD)
			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	Mitigation Measures Implemented?^
				Timing of completion of measures	
			<ul> <li>To minimize the incidents of construction workers coming in contact with any contaminated materials, bulk earth-moving excavation equipment should be employed;</li> </ul>		
			<ul> <li>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;</li> </ul>		
			<ul> <li>Stockpiling of contaminated excavated materials on site should be avoided as far as possible;</li> </ul>		
			<ul> <li>The use of any contaminated soil for landscaping purpose should be avoided unless pre-treatment was carried out;</li> </ul>		
			<ul> <li>Vehicles containing any excavated materials should be suitably covered to reduce dust emissions and/or release of contaminated wastewater;</li> </ul>		
			<ul> <li>Truck bodies and tailgates should be sealed to prevent any discharge;</li> </ul>		
			<ul> <li>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;</li> </ul>		
			<ul> <li>Speed control for trucks carrying contaminated materials should be exercised. 8km/h is the recommended speed limit;</li> </ul>		
			<ul> <li>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</li> </ul>		
			<ul> <li>Maintain records of waste generation and disposal quantities and disposal arrangements.</li> </ul>		
			Terrestrial Ecological – Construction Phase		
12.10.1.1	9.2	2.14	Pre-construction Egretry Survey	Breeding season (April	C – Completed ir
			<ul> <li>Conduct ecological survey for Sha Chau egretry to update the latest boundary of the egretry.</li> </ul>	- July) prior to commencement of HDD drilling works at HKIA	Jan 2019
12.7.2.3	9.1	2.30	Avoidance and Minimisation of Direct Impact to Egretry	During construction	C – Completed in
and 12.7.2.6			<ul> <li>The daylighting location will avoid direct encroachment to the Sheung Sha Chau egretry. The daylighting location and mooring of flat top barge, if required, will be kept away from the egretry;</li> </ul>	phase at Sheung Sha Chau Island	Jan 2019
			• 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.		



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures	Mitigation Measures
				Timing of completion of measures	Implemented?^
12.7.2.5	9.1	2.30	Preservation of Nesting Vegetation  The proposed daylighting location and the arrangement of connecting pipeline will avoid the need of tree cutting, therefore the trees that are used by ardeids for nesting will be preserved.	During construction phase at Sheung Sha Chau Island	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  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     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	-	■ 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  • Minimise the overall size of the land formation needed for the additional facilities to minimise the overall loss of habitat for marine resources, especially the CWD population.	Land formation footprint / during detailed design phase to completion of construction	I
13.11.1.7 to 13.11.1.10	-	2.31	Use of Construction Methods with Minimal Risk/Disturbance  Use of non-dredge method for the main land formation and ancillary works including the diversion of the aviation fuel pipeline to the AFRF;	During construction phase at marine works area	C – Completed in Jan 2019 for diversion of aviation fuel pipeline
			<ul> <li>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;</li> </ul>	-	I
			<ul> <li>Use of bored piling in short duration to form the new approach lights and marker beacons for the new runway;</li> </ul>	-	C – Completed in Oct 2021 for new approach lights
			<ul> <li>Avoid bored piling during CWD peak calving season (Mar to Jun);</li> </ul>	_	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?^
					HKIAAA Marker Beacons would be replaced by buoys
			Prohibition of underwater percussive piling; and	•	1
			<ul> <li>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.</li> </ul>		C – Completed in Jan 2019 for HDD works
13.11.2.1	-	-	Mitigation for Indirect Disturbance due to Deterioration of Water Quality	All works area during	
to 13.11.2.7			<ul> <li>Water quality mitigation measures during construction phases include consideration of alternative construction methods, deployment of silt curtain and good site practices;</li> </ul>	the construction phase	1
			<ul> <li>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);</li> </ul>		1
			<ul> <li>Use of bored piling in short duration to form the new approach lights and marker beacons for the new runway; and</li> </ul>		C – Completed in Oct 2021 for new approach lights
			<ul> <li>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.</li> </ul>		C – Completed in Jan 2019 for HDD works
13.11.1.12	-	-	Strict Enforcement of No-Dumping Policy	All works area during	1
			<ul> <li>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;</li> </ul>	the construction phase	
			<ul> <li>Mandatory educational programme of the no-dumpling policy be made available to all construction site personnel for all project-related works;</li> </ul>		
			<ul><li>Fines for infractions should be implemented; and</li></ul>		
			<ul><li>Unscheduled, on-site audits shall be implemented.</li></ul>		
13.11.1.13	-	-	<ul> <li>Good Construction Site Practices</li> <li>Regular inspection of the integrity and effectiveness of all silt curtains and monitoring of effluents to ensure that any discharge meets effluent discharge guidelines;</li> <li>Keep the number of working or stationary vessels present on-site to the minimum anytime; and</li> <li>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.</li> </ul>	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  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  SkyPier HSFs operating to / from Zhuhai and Macau would divert north of SCLKC Marine Park with a 15 knot speed limit to apply for the part-journeys that cross high CWD abundance grid squares as indicatively shown in Drawing No. MCL/P132/EIA/13-023 of the EIA Report. Both the alignment of the northerly route and the portion of routings to be subject to the speed limit of 15 knots shall be finalised prior to commencement of construction based on the future review of up-to-date CWD abundance and EM&A data and taking reference to changes in total SkyPier HSF numbers; and  A maximum of 10 knots will be enforced through the designated SCLKC Marine Park area at all times.	Area between the footprint and SCLKC Marine Park during construction phase	I
			Other mitigation measures  The ET will audit various parameters including actual daily numbers of HSFs, compliance with the 15-knot speed limit in the speed control zone and diversion compliance for SkyPier HSFs operating to / from Zhuhai and Macau; and  The effectiveness of the CWD mitigation measures after implementation of initial six month SkyPier HSF diversion and speed restriction will be reviewed.	Area between the footprint and SCLKC Marine Park during construction phase	I C – Completed in Sep 2016
13.11.5.14 to 13.11.5.18	10.3.1	2.31	Dolphin Exclusion Zone ■ Establishment of a 24 hr Dolphin Exclusion Zone (DEZ) with a 250 m radius around the land formation works areas;	Marine waters around land formation works area during construction phase	I
			<ul> <li>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</li> </ul>		1
			■ A DEZ would also be implemented during bored piling work but as a precautionary measure only.		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     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	N/A



EIA Ref. EM&A EP Ref. Condition			Environmental Protection Measures	Location / Duration of measures	Mitigation Measures Implemented?^
				Timing of completion of measures	-
13.11.5.20	10.6.1	2.29	Spill Response Plan	Construction phase	1
			• 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.		
13.11.5.21	10.6.1	-	Construction Vessel Speed Limits and Skipper Training	All areas north and	I
to 13.11.5.23			<ul> <li>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).</li> </ul>	west of Lantau Island during construction phase	
			<ul> <li>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.</li> </ul>		
			Fisheries Impact – Construction Phase		
14.9.1.2 to	-		Minimisation of Land Formation Area	Land formation	I
14.9.1.5			• Minimise the overall size of the land formation needed for the additional facilities to minimise the overall loss of habitat for fisheries resources.	footprint / during detailed design phase to completion of construction	
14.9.1.6	-	-	Use of Construction Methods with Minimal Risk/Disturbance	During construction	C – Completed in
			<ul> <li>Use of non-dredge method for the main land formation and ancillary works including the diversion of the aviation fuel pipeline to the AFRF;</li> </ul>	phase at marine works area	Jan 2019 for diversion of aviation fuel pipeline
			<ul> <li>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;</li> </ul>		I
			<ul> <li>Use of bored piling in short duration to form the new approach lights and marker beacons for the new runway; and</li> </ul>		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&. Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures	Mitigation Measures
				Timing of completion of measures	Implemented?^
			<ul> <li>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.</li> </ul>		C – Completed in Jan 2019 for HDD works
14.9.1.11	-		Strict Enforcement of No-Dumping Policy	All works area during	I
			<ul> <li>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;</li> </ul>	the construction phase	
			<ul> <li>Mandatory educational programme of the no-dumpling policy be made available to all construction site personnel for all project-related works;</li> </ul>		
			Fines for infractions should be implemented; and		
			<ul> <li>Unscheduled, on-site audits shall be implemented.</li> </ul>		
14.9.1.12	-		Good Construction Site Practices	All works area during	1
		<ul> <li>Regular inspection of the integrity and effectiveness of all silt curtains and monitoring of effluents to ensure that any discharge meets effluent discharge guidelines;</li> </ul>			
			<ul> <li>Keep the number of working or stationary vessels present on-site to the minimum anytime; and</li> </ul>		
			<ul> <li>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.</li> </ul>		
14.9.1.13	-		Mitigation for Indirect Disturbance due to Deterioration of Water Quality	All works area during	1
to 14.9.1.18			<ul> <li>Water quality mitigation measures during construction phases include consideration of alternative construction methods, deployment of silt curtain and good site practices;</li> </ul>	the construction phase	
			Alternative construction methods including use of non-dredge methods for ground improvement (e.g. Deep Cement Mixing (DCM), prefabricated vertical drains (PVD), sand compaction piles, steel cells, stone columns and vertical sand drains);		I
			<ul> <li>Use of bored piling in short duration to form the new approach lights and marker beacons for the new runway; and</li> </ul>		C – Completed in Oct 2021 for new approach lights
				N/A for marker beacons as HKIAAA Marker Beacons would be replaced by buoys	
			<ul> <li>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.</li> </ul>		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	-	<b>CM1</b> - 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	1
Table 15.6	12.3	-	CM2 - Reduction of construction period to practical minimum.	completion of works.  All works areas for duration of works; Upon handover and	1
Table 15.6	12.3	-	CM3 - Phasing of the construction stage to reduce visual impacts during the construction phase.	completion of works.  All works areas for duration of works; Upon handover and	I
Table 15.6	12.3	-	<b>CM4</b> - Construction traffic (land and sea) including construction plants, construction vessels and barges should be kept to a practical minimum.	completion of works.  All works areas for duration of works; Upon handover and	I
Table 15.6	12.3	-	CM5 - Erection of decorative mesh screens or construction hoardings around works areas in visually unobtrusive colours.	completion of works.  All works areas for duration of works; Upon handover and completion of works. — may be disassembled in phases.	ı
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. —	ı



	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures	Mitigation Measures
				Timing of completion of measures	Implemented?^
				may be disassembled in phases.	
Table 15.6 12.3	12.3	-	<b>CM8</b> - 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	All existing trees to be retained;	I
		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.	Upon handover and completion of works.		
Table 15.6 12.3 -	Tra	<b>CM9</b> - 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	All existing trees to be affected by the works;	I	
		necessary tree root and crown preparation periods shall be allowed in the project programme.	Upon handover and completion of works.		
Table 15.6	12.3	-	<b>CM10</b> - 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;	I
				Upon handover and completion of works.	
			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:

<sup>&</sup>quot; - " 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.

<sup>&</sup>quot;I" Implemented and on-going where applicable.

<sup>&</sup>quot; N/A" Not applicable to the construction works implemented during the reporting month.

<sup>&</sup>quot; ^ " Checked by ET through site inspection and record provided by the Contractor.

<sup>&</sup>quot;C" Construction works completed.

## Appendix B. Monitoring Schedule

# Monitoring Schedule of This Reporting Period

## Sep-23

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					Site Inspection	2
						WQ General <sup>[1]</sup> mid-ebb: 14:38 mid-flood: 08:09
3	4	5	6	7	8	9
	Site Inspection	Site Inspection		Site Inspection	Site Inspection	
		AR1A, AR2	CWD Survey (Vessel)	NM4, NM6		
		NM1A, NM5				
		WQ General mid-ebb: 16:32		WQ General mid-ebb: 06:1	6	WQ General mid-ebb: 09:04
		mid-flood: 10:54	1	mid-flood: 18:4	4	mid-flood: 21:49
10	11	12	13	14	15	16
	Site Inspection	Site Inspection		Site Inspection	Site Inspection	
	AR1A, AR2		CWD Survey (Vessel) NM4, NM6		CWD Survey (Vessel)	AR1A, AR2
	NM1A, NM5	W0 0	,	W0.0		·
		WQ General mid-ebb: 11:46		WQ General mid-ebb: 12:5	4	WQ General mid-ebb: 13:52
		mid-flood: 18:52	2	mid-flood: 19:3	0	mid-flood: 20:07
17	18 Site Inspection	19 Site Inspection	20	21 Site Inspection	Site Inspection	23
	Site inspection	Site inspection		Site inspection	Site inspection	
	CWD Survey (Vessel)		CWD Survey (Vessel)	CWD Survey (Land-based) CWD Survey (Vessel) NM4, NM6	CWD Survey (Vessel) AR1A, AR2 NM1A, NM5	
		WQ General		WQ General		WQ General
		mid-ebb: 15:20 mid-flood: 09:24	1	mid-ebb: 16:4 mid-flood: 11:2	5 2	mid-ebb: 06:18 mid-flood: 18:56
24	25	26	27	28	29	30
	Site Inspection	Site Inspection		Site Inspection	Site Inspection	
	CWD Survey (Vessel)	CWD Survey (Land-based)	NM4, NM6	AR1A, AR2		
			THINH, HINO	NM1A, NM5		
		WQ General mid-ebb: 10:23		WQ General mid-ebb: 12:0	6	WQ General mid-ebb: 13:31
		mid-flood: 17:57	7	mid-flood: 18:5	6	mid-flood: 07:15
		Notes:				
		CWD - Chinese White Dolphin				
		Air quality and Noise Monitoring Station	NM1A/AR1A - Man Tung Road Park NM4 - Ching Chung Hau Po Woon Pr NM5/AR2 - Village House, Tin Sum	imary School		
		WQ - Water Quality [1] WQ Monitoring for both ebb and floo	NM6 - House No. 1, Sha Lo Wan d tides on 2 September 2023 was canc	elled due to No. 8 Southeast Gale in force.		

# Tentative Monitoring Schedule of Next Reporting Period

## Oct-23

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	2	3	4	5	6	7
			AR1A, AR2	CWD Survey (Land-based) NM4, NM6	CWD Survey (Vessel)	
			NM1A, NM5	, , , , , , ,		
		WQ General		WQ General		WQ General <sup>[1]</sup>
		mid-ebb: 15:2 mid-flood: 9:5		mid-ebb: 16:38 mid-flood: 12:02		mid-ebb: 6:36 mid-flood: 19:24
8	9	10	11	12	13	14
	•					
	CWD Survey (Vessel)	CWD Survey (Land-based) AR1A, AR2		CWD Survey (Vessel)	CWD Survey (Vessel) NM4, NM6	
		NM1A, NM5			NIVI4, NIVIO	
		WQ General		WQ General		WQ General
		mid-ebb: 10:3 mid-flood: 17:4		mid-ebb: 11:48 mid-flood: 18:18		mid-ebb: 12:53 mid-flood: 6:44
15	16	17	18	19	20	21
	CWD Survey (Vessel) AR1A, AR2	CWD Survey (Vessel)		CWD Survey (Vessel) NM4, NM6	CWD Survey (Vessel)	AR1A, AR2
	NM1A, NM5					
		WQ General		WQ General		WQ General
		mid-ebb: 14:3 mid-flood: 8:4	30 14	mid-ebb: 15:50 mid-flood: 10:29		mid-ebb: 4:51 mid-flood: 17:17
22	23	24	25	26	27	28
				NM4, NM6	AR1A, AR2	
		WQ General		WQ General	NM1A, NM5	WQ General
		mid-ebb: 8:5	51	mid-ebb: 10:53	3	mid-ebb: 12:24
		mid-flood: 16:4	10	mid-flood: 17:41		mid-flood: 18:29
29	30	31				
		WQ General				
		mid-ebb: 14:2 mid-flood: 9:0	29 13			
		Notes:				
		CWD - Chinese White Dolphin	NM1A/AR1A - Man Tung Road Park			
		Air quality and Naisa Manitoring Station	NIMA China Chuna Hau Bo Woon Br	imary School		
		Air quality and Noise Monitoring Station	NM5/AR2 - Village House, Tin Sum			
		WQ - Water Quality	NM6 - House No. 1, Sha Lo Wan			
			od tides on 7 October 2023 was cancelle	ed due to Strong Wind Signal No. 3 in force.		

## **Appendix C.** Monitoring Results

Mott MacDonald   Expansion of Hong Kong International Airport into a Three-Runway System Construction Phase Monthly EM&A Report No. 93 (For September 2023)

**Air Quality Monitoring Results** 

#### 1-hour TSP Results

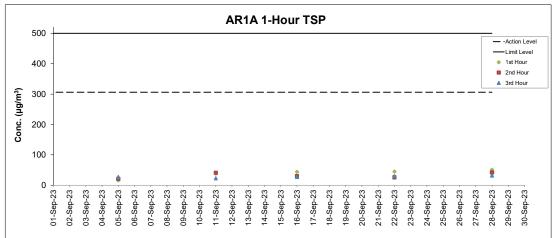
#### Station: AR1A- Man Tung Road Park

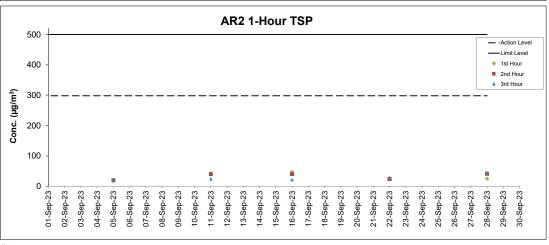
Date	Time	Weather	Wind Speed (m/s)	Wind Direction	1-hr TSP (μg/m³)	Action Level	Limit Level
Succ	····ic	catrici	Tima speca (m/s)	(deg)	1-111 131 (μg/111)	(μg/m³)	(μg/m³)
5-Sep-23	8:22	Drizzle	5.0	320	16	306	500
5-Sep-23	9:22	Drizzle	4.7	332	21	306	500
5-Sep-23	10:22	Drizzle	6.7	325	27	306	500
11-Sep-23	8:40	Drizzle	4.7	89	38	306	500
11-Sep-23	9:40	Drizzle	5.3	94	41	306	500
11-Sep-23	10:40	Drizzle	6.4	96	23	306	500
16-Sep-23	9:05	Sunny	2.8	75	44	306	500
16-Sep-23	10:05	Sunny	3.1	68	30	306	500
16-Sep-23	11:05	Sunny	3.6	82	27	306	500
22-Sep-23	8:38	Sunny	1.7	35	45	306	500
22-Sep-23	9:38	Sunny	2.2	345	26	306	500
22-Sep-23	10:38	Sunny	3.1	345	30	306	500
28-Sep-23	8:05	Sunny	5.3	69	51	306	500
28-Sep-23	9:05	Sunny	5.3	61	42	306	500
28-Sep-23	10:05	Sunny	5.0	83	32	306	500

#### 1-hour TSP Results

Station: AR2- Village House, Tin Sum

Station: ARZ- Villag	ge nouse, iiii	Sum					
Date	Time	Weather	Wind Speed (m/s)	Wind Direction	1 ha TCD ( (3)	Action Level	Limit Level
Date	Time	weather	Willa Speed (III/3)	(deg)	1-hr TSP (μg/m <sup>3</sup> )	(μg/m³)	(μg/m³)
5-Sep-23	13:12	Drizzle	3.3	297	18	298	500
5-Sep-23	14:12	Drizzle	4.2	324	20	298	500
5-Sep-23	15:12	Drizzle	4.7	335	18	298	500
11-Sep-23	13:47	Drizzle	5.3	113	42	298	500
11-Sep-23	14:47	Drizzle	5.0	98	40	298	500
11-Sep-23	15:47	Drizzle	5.0	95	24	298	500
16-Sep-23	12:30	Sunny	2.8	64	47	298	500
16-Sep-23	13:30	Sunny	3.9	48	40	298	500
16-Sep-23	14:30	Sunny	4.2	79	21	298	500
22-Sep-23	13:36	Sunny	3.9	279	23	298	500
22-Sep-23	14:36	Sunny	3.3	252	24	298	500
22-Sep-23	15:36	Sunny	2.5	Variable	28	298	500
28-Sep-23	11:56	Sunny	6.4	106	25	298	500
28-Sep-23	12:56	Sunny	6.7	105	41	298	500
28-Sep-23	13:56	Sunny	5.3	115	45	298	500





- Indicate In Major site activities carried out during the reporting period are summarized in Section 1.4 of the monthly EM&A report.

  2. Weather conditions during monitoring are presented in the data tables above.

  3. QA/QC requirements as stipulated in the EM&A Manual were carried out during measurement.

## **Noise Monitoring Results**

#### **Noise Measurement Results**

Station: NM1A- Man Tung Road Park

Date	Weather	Time	Measured	Measured	I 10/43 A
Date	weather	Time	<b>L</b> <sub>10</sub> dB(A)	<b>L</b> <sub>90</sub> dB(A)	L <sub>eq(30mins)</sub> dB(A) ^
5-Sep-23	Drizzle	8:01	61.7	57.9	
5-Sep-23	Drizzle	8:06	60.7	57.7	
5-Sep-23	Drizzle	8:11	60.7	57.1	62
5-Sep-23	Drizzle	8:16	61.6	56.3	02
5-Sep-23	Drizzle	8:21	61.6	56.0	
5-Sep-23	Drizzle	8:26	60.3	56.3	
11-Sep-23	Drizzle	9:21	62.8	59.2	
11-Sep-23	Drizzle	9:26	62.7	58.9	1
11-Sep-23	Drizzle	9:31	62.7	59.2	64
11-Sep-23	Drizzle	9:36	63.2	59.7	04
11-Sep-23	Drizzle	9:41	62.7	59.4	1
11-Sep-23	Drizzle	9:46	62.4	59.6	1
22-Sep-23	Sunny	9:25	61.3	56.9	
22-Sep-23	Sunny	9:30	60.2	57.0	1
22-Sep-23	Sunny	9:35	60.6	56.5	62
22-Sep-23	Sunny	9:40	60.9	56.5	7 02
22-Sep-23	Sunny	9:45	61.1	57.0	]
22-Sep-23	Sunny	9:50	60.3	56.6	1
28-Sep-23	Sunny	8:34	60.9	57.2	
28-Sep-23	Sunny	8:39	61.2	57.6	1
28-Sep-23	Sunny	8:44	61.4	57.7	64
28-Sep-23	Sunny	8:49	64.0	58.0	] 04
28-Sep-23	Sunny	8:54	62.1	58.4	]
28-Sep-23	Sunny	8:59	64.7	57.7	

### **Noise Measurement Results**

Station: NM4- Ching Chung Hau Po Woon Primary School

Date	Weather	Time	Measured	Measured	Ι 10/43 Δ
Date	weather	Time	<b>L</b> <sub>10</sub> dB(A)	<b>L</b> <sub>90</sub> dB(A)	L <sub>eq(30mins)</sub> dB(A) ^
7-Sep-23	Overcast	13:00	65.0	63.1	
7-Sep-23	Overcast	13:05	66.5	64.0	
7-Sep-23	Overcast	13:10	66.7	60.3	66
7-Sep-23	Overcast	13:15	63.2	58.8	] 00
7-Sep-23	Overcast	13:20	60.5	57.7	
7-Sep-23	Overcast	13:25	61.7	57.5	
13-Sep-23	Sunny	13:45	62.6	58.6	
13-Sep-23	Sunny	13:50	63.5	58.4	
13-Sep-23	Sunny	13:55	62.2	57.9	63
13-Sep-23	Sunny	14:00	60.9	57.8	] 03
13-Sep-23	Sunny	14:05	59.7	57.4	
13-Sep-23	Sunny	14:10	61.1	57.0	
21-Sep-23	Sunny	14:06	61.8	58.0	
21-Sep-23	Sunny	14:11	62.8	58.0	
21-Sep-23	Sunny	14:16	62.9	58.0	63
21-Sep-23	Sunny	14:21	62.9	58.3	
21-Sep-23	Sunny	14:26	61.4	58.3	
21-Sep-23	Sunny	14:31	63.4	58.2	
27-Sep-23	Sunny	13:42	61.5	57.0	
27-Sep-23	Sunny	13:47	61.8	58.3	
27-Sep-23	Sunny	13:52	62.7	57.5	63
27-Sep-23	Sunny	13:57	62.0	57.5	
27-Sep-23	Sunny	14:02	61.4	56.7	
27-Sep-23	Sunny	14:07	60.5	57.0	

Remarks:
(^) +3dB (A) correction in Leq(30mins) dB(A) was applied to free-field measurement.

Remarks:
(^) +3dB (A) correction in Leq(30mins) dB(A) was applied to free-field measurement.

#### **Noise Measurement Results**

Station: NM5- Village House, Tin Sum

Station. Nivis- Village House, Till Sulli											
Date	Weather	Time	Measured	Measured	Ι						
Date	weather	Time	<b>L</b> <sub>10</sub> dB(A)	<b>L</b> <sub>90</sub> dB(A)	L <sub>eq(30mins)</sub> dB(A) ^						
5-Sep-23	Drizzle	11:41	64.0	59.7							
5-Sep-23	Drizzle	11:46	65.7	61.3							
5-Sep-23	Drizzle	11:51	63.4	60.4	64*						
5-Sep-23	Drizzle	11:56	62.4	59.0	04						
5-Sep-23	Drizzle	12:01	63.5	59.6							
5-Sep-23	Drizzle	12:06	63.0	60.1							
11-Sep-23	Drizzle	14:04	64.4	60.1							
11-Sep-23	Drizzle	14:09	64.2	60.5							
11-Sep-23	Drizzle	14:14	63.8	60.3	64*						
11-Sep-23	Drizzle	14:19	64.1	60.5	041						
11-Sep-23	Drizzle	14:24	63.0	59.5							
11-Sep-23	Drizzle	14:29	63.7	59.9							
22-Sep-23	Sunny	13:44	64.8	61.5							
22-Sep-23	Sunny	13:49	65.0	61.4							
22-Sep-23	Sunny	13:54	64.7	61.5	65*						
22-Sep-23	Sunny	13:59	63.9	61.3	] 03						
22-Sep-23	Sunny	14:04	63.8	61.3							
22-Sep-23	Sunny	14:09	63.7	61.2							
28-Sep-23	Sunny	10:50	65.9	59.9							
28-Sep-23	Sunny	10:55	65.7	60.0							
28-Sep-23	Sunny	11:00	64.3	60.0	65*						
28-Sep-23	Sunny	11:05	64.4	60.0	] 03						
28-Sep-23	Sunny	11:10	63.2	59.9							
28-Sep-23	Sunny	11:15	63.8	59.9							

#### **Noise Measurement Results**

#### Station: NM6- House No.1 Sha Lo Wan

Date	Weather	Time	Measured	Measured	1 1970) A
Date	weather	Tille	<b>L</b> <sub>10</sub> dB(A)	<b>L</b> <sub>90</sub> dB(A)	L <sub>eq(30mins)</sub> dB(A) ^
7-Sep-23	Overcast	15:43	74.8	51.2	
7-Sep-23	Overcast	15:48	71.2	60.0	
7-Sep-23	Overcast	15:53	72.2	54.2	70*
7-Sep-23	Overcast	15:58	65.9	52.5	70
7-Sep-23	Overcast	16:03	70.9	51.4	
7-Sep-23	Overcast	16:08	76.9	67.4	
13-Sep-23	Sunny	15:47	71.9	51.4	
13-Sep-23	Sunny	15:52	64.9	51.8	
13-Sep-23	Sunny	15:57	60.6	48.9	66
13-Sep-23	Sunny	16:02	63.3	49.1	
13-Sep-23	Sunny	16:07	66.6	52.7	
13-Sep-23	Sunny	16:12	69.7	48.6	
21-Sep-23	Sunny	15:45	68.9	63.0	
21-Sep-23	Sunny	15:50	73.5	66.7	
21-Sep-23	Sunny	15:55	69.8	59.6	62*
21-Sep-23	Sunny	16:00	66.0	60.8	02
21-Sep-23	Sunny	16:05	62.3	59.4	
21-Sep-23	Sunny	16:10	62.7	59.4	
27-Sep-23	Sunny	15:42	56.4	45.9	
27-Sep-23	Sunny	15:47	59.1	46.2	
27-Sep-23	Sunny	15:52	63.6	49.6	60
27-Sep-23	Sunny	15:57	58.9	46.8	00
27-Sep-23	Sunny	16:02	58.1	43.6	
27-Sep-23	Sunny	16:07	60.1	45.9	

Remarks:

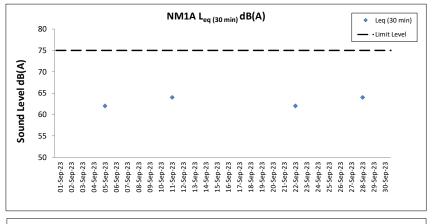
(^) +3dB (A) correction in Leq(30mins) dB(A) was applied to free-field measurement.

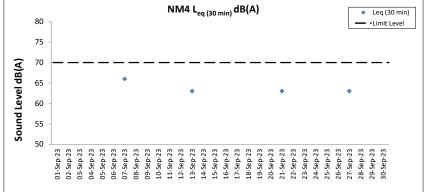
(\*) The measurement result was corrected with reference to the baseline monitoring levels.

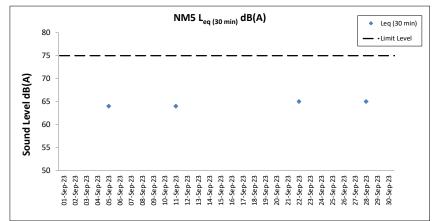
Remarks:

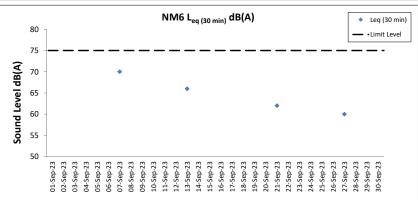
(^) +3dB (A) correction in Leq(30mins) dB(A) was applied to free-field measurement.

(\*) The measurement result was corrected with reference to the baseline monitoring levels.









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



Water Quality Monitoring Results on

05 September 23 during Mid-Ebb Tide

Monitoring	Weather	Sea	Sampling	Water	Sampling Dep		Current Speed	Current	Water To	emperature (°C)		рН	Salin	ty (ppt)	DO S	aturation (%)	Dissol Oxyg		Turbidity	(NTU)	Suspende (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling Dep	our (iii)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.3	207	27.0	27.0	7.9	7.9	27.1	27.1	85.3	85.4	5.8		5.7		3			
					Surface	1.0	0.3	207	26.9	27.0	7.9	1.5	27.1	27.1	85.4	05.4	5.8	5.8	5.9		3			
C1	Fine	Rough	16:37	7.9	Middle	4.0	0.3	195	26.8	26.8	7.9	7.9	27.5	27.5	83.6	83.6	5.7	3.0	7.4	7.7	2	3	815643	804242
01	1 1110	rtougii	10.57	7.5	Wilduic	4.0	0.3	189	26.8	20.0	7.9	1.5	27.5	27.5	83.5	00.0	5.7		7.4	] '.'	3	3	013043	004242
					Bottom	6.9	0.3	194	26.6	26.6	7.9	7.9	28.4	28.4	82.1 82.3	82.2	5.6	5.6	9.8	]	3			
					Bottom	6.9	0.3	197	26.6	20.0	7.9	1.0	28.4	20.4	82.3	02.2	5.6	0.0	9.9		3			
					Surface	1.0	0.1	347	27.2	27.2	7.9	7.9	26.0	26.0	85.7	85.7	5.9		3.3		3			
					Ouriacc	1.0	0.0	351	27.2	21.2	7.9	7.5	26.0	20.0	85.7	00.7	5.9	5.8	3.3		2			
C2	Fine	Rough	14:58	10.3	Middle	5.2	0.0	335	26.9	26.9	7.9	7.9	26.7	26.7	82.9 83.0	83.0	5.7	0.0	4.0	4.5	3	3	825681	806954
02	1 1110	rtougii	14.50	10.5	Wilduic	5.2	0.0	342	26.8	20.5	7.9	1.5	26.7	20.7		00.0	5.7		4.0	] 4.5	3	3	023001	000334
					Bottom	9.3	0.0	337	26.3	26.3	7.9	7.9	28.7	28.8	79.9	79.9	5.5	5.5	6.3	]	3			
					Bottom	9.3	0.0	335	26.3	20.0	7.9	1.0	28.9	20.0	79.8	10.0	5.5	0.0	6.3		3			
					Surface	1.0	0.3	71	25.5	25.5	8.0	8.0	29.0	29.0	72.5	72.5	5.0		2.0	]	5			
					Curidoc	1.0	0.3	63	25.5	20.0	8.0	0.0	29.0	20.0	72.5	12.0	5.0	5.0	2.0	1	3			
C3	Cloudy	Moderate	15:59	12.0	Middle	6.0	0.2	77	25.3	25.3	8.0	8.0	29.4	29.4	71.0	71.0	4.9	0.0	2.6	2.4	2	3	822090	817790
	Cloudy Modera	Moderate	10.00	12.0	Wildele	6.0	0.2	83	25.3	20.0	8.0	0.0	29.4	20.4	71.0	71.0	4.9		2.6		3	Ü	022000	017700
					Bottom	11.0	0.2	104	25.2	25.2	8.0	7.9	29.6	29.6	70.8	70.8	4.9	4.9	2.5	]	2			
					Dottom	11.0	0.2	104	25.2	20:2	7.9		29.6	20.0	70.8	7 0.0	4.9		2.6		3			
					Surface	1.0	0.1	201	27.1	27.1	7.9	7.9	27.0	27.0	84.9	84.9	5.8		5.0	1	2			
						1.0	0.1	200	27.1		7.9		27.0		84.9		5.8	5.7	4.9	1	2			
IM1	Fine	Rough	16:13	7.1	Middle	3.6	0.1	209	26.8	26.8	7.9 7.9	7.9	27.7	27.7	82.1 82.1	82.1	5.6 5.6		6.7	6.4	2	2	818349	806476
	'					3.6	0.1	214	26.8				27.7						6.7	1	3	_		
					Bottom	6.1	0.2	201	26.6	26.6	7.9	7.9	28.5	28.5	81.2	81.3	5.6	5.6	7.4	1	3			
						6.1	0.2	202	26.6		7.9		28.5		81.3		5.6		7.5		2			
					Surface	1.0	0.1	175	25.6	25.6	8.0	8.0	29.1	29.1	81.1	81.1	5.6		2.4	1	2			
						1.0	0.1	170	25.5		8.0		29.2		81.0		5.6	5.5	2.4	1	3			
IM2	Fine	Rough	16:02	7.7	Middle	3.9	0.1	154	25.3	25.3	8.0	8.0	32.8	32.8	78.1	78.2	5.3		3.9	3.8	3	3	819168	806213
	'					3.9	0.1	157	25.3		8.0		32.9		78.2		5.3		3.9	1	3	-		
					Bottom	6.7	0.1	174	25.3	25.3	8.0	8.0	33.0	33.0	77.5	77.6	5.3	5.3	5.1	1	2			
						6.7	0.1	180	25.3		8.0		33.0		77.6		5.3		5.2		3			
					Surface	1.0	0.1	116	26.9	26.9	7.9	7.9	26.7	26.7	84.0	84.0	5.8		3.6	1	3			
						1.0	0.1	119	26.8		7.9		26.7	-	83.9		5.8	5.6	3.6	1	3			
IM7	Fine	Rough	15:39	8.8	Middle	4.4	0.1	98	26.0	26.0	7.9	7.9	29.7	29.7	76.7	76.7	5.3		4.7	4.6	3	3	821363	806849
		3				4.4	0.1	104	26.0		7.9		29.7	-	76.7		5.3		4.8	1	3	-		
					Bottom	7.8	0.1	101	26.0	26.0	7.9	7.9	30.2	30.2	75.2	75.3	5.2	5.2	5.4	1	3			
54.5						7.8	0.2	107	26.0		7.9		30.2		75.3		5.2	-	5.4	<u> </u>	3			

DA: Depth-Averaged

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

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

Note: The ebb tide and flood tide monitoring sessions on 2 September 2023 was cancelled due No.8 Southeast Gale Storm Signal.

Water Quality Monitoring Results on

05 September 23 during	Mid-Ebb	Hae
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water Quar	Weather	Sea	Sampling	Water	05 September 25		Current	-	Water T	emperature (°C)	pH		Salini	ty (ppt)	DO Sa	aturation	Dissolv		Turbidity	/NITLI\	Suspende		Coordinate	Coordinate
Monitoring	vveatrier	sea	Sampling	vvaler	Sampling Dep	th (m)	Speed	Current	vvaler 16	-mperature ( C)	μη		Janill	ry (PPI)	(	(%)	Oxyge	en	rurbiuity	(1110)	(mg/	L)	HK Grid	HK Grid
Station	Condition	Condition	Time	Depth (m)		( )	(m/s)	Direction	Value	Average	Value Ave	erage	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.0	51	26.8	26.8	7.9	7.9	23.9	23.9	79.5	79.4	5.6		1.5		4			
						1.0	0.1	50	26.8	20.0	7.9		23.9	20.0	79.3		5.6	5.3	1.6		3			
IM10	Cloudy	Rough	14:53	8.0	Middle	4.0	0.1	58	25.9	25.9	7.9	7.9	26.9	27.0	71.0	71.0	5.0	_	5.3	4.3	4	4	822222	809839
	1	ŭ				4.0	0.1	54	25.9		7.9		27.0		71.0		5.0		5.4		4			
					Bottom	7.0	0.1	47	25.8	25.8	7.9	7.9	27.3	27.3	71.1	71.2	5.0	5.0	6.2	1	3			
						7.0	0.1	47	25.8		7.9		27.3		71.2		5.0		6.2		3			
					Surface	1.0	0.1	65	26.8	26.8	7.9	7.9	23.8	23.7	78.3	78.3	5.5	-	1.8	-	2			
						1.0 4.4	0.1	67	26.8		7.9		23.7		78.2		5.5	5.2	1.8	1	2			
IM11	Cloudy	Rough	14:58	8.8	Middle	4.4	0.1	82 85	25.9 25.9	25.9	7.9	7.9	27.0 27.0	27.0	70.7 70.7	70.7	4.9 4.9	-	4.6	4.9	2	3	821482	810536
						7.8	0.1	83	25.9									-	8.2	1	3			
					Bottom	7.8	0.2	78	25.9	25.9	7.9	7.9	27.2	27.2	70.8 70.8	70.8	4.9	4.9	8.3	1	3			
			<del>                                     </del>			1.0	0.2	79	26.5		7.9		24.9		77.6		5.4	-	1.9		3			
					Surface	1.0	0.1	85	26.5	26.5	7.9	7.9	24.9	24.9	77.6	77.6	5.4	-	1.9	1	3			
						4.2	0.1	65	25.8		7.0		27.4		71.0		5.0	5.2	6.3	1	3			
IM12	Cloudy	Rough	15:03	8.3	Middle	4.2	0.1	57	25.8	25.8	7.9	7.9	27.5	27.4	71.0	71.0	5.0	-	6.4	5.0	3	3	821138	811519
						7.3	0.1	94	25.7		7.0		27.8		71.3		5.0		6.7	1	3			
					Bottom	7.3	0.0	88	25.7	25.7	7.9	7.9	27.8	27.8	71.3	71.3	5.0	5.0	6.7	1	4			
						1.0	0.1	78	26.2		70		24.2		77.1		5.4		5.1		3			
					Surface	1.0	0.1	75	26.1	26.2	7.9	7.9	24.3	24.3	76.9	77.0	5.4		5.4	1	3			
0044			45.00			2.8	0.0	54	-				- 1		-		-	5.4	-		-		0.400==	
SR1A	Cloudy	Moderate	15:29	5.6	Middle	2.8	0.0	46	-	-	-	-	-	-	-	-	-		-	6.0	- 1	3	819975	812661
					D.#	4.6	0.0	45	25.7	05.7	7.9	7,	27.9	07.0	70.8	70.0	4.9	4.0	6.7	1	4			
					Bottom	4.6	0.1	41	25.7	25.7	7.9	7.9	27.9	27.9	70.8	70.8	4.9	4.9	6.7	1	2			
					Surface	1.0	0.2	49	26.4	26.4	7.9	7.9	25.6	25.6	76.7	76.8	5.4		2.5		3			
					Surface	1.0	0.2	53	26.4	20.4	7.9	.9	25.6	25.0	76.8	70.0	5.4	5.4	2.5	1	2			
SR2	Cloudy	Moderate	15:42	4.1	Middle	-	0.2	67	-		-		-	_	-		-	5.4	-	2.4	-	3	821448	814167
3112	Cioudy	Moderate	13.42	4.1	Middle	-	0.2	60	-	-	-	-	-	_	-	_	-		-	2.4	-	١	02 1440	014107
					Bottom	3.1	0.2	38	26.3	26.3	7.9	7.9	26.0	26.0	78.3	78.4	5.5	5.5	2.3		4			
					Dottom	3.1	0.2	38	26.3	20.5	7.9	.5	26.0	20.0	78.5	70.4	5.5	5.5	2.3		3			
					Surface	1.0	0.1	68	26.0	26.0	7.9	7.9	29.8	29.7	76.3	76.3	5.2		6.8		3			
					Gundoc	1.0	0.1	72	26.0	20.0	7.9		29.7	20.7	76.3	70.0	5.2	5.2	6.8		3			
SR3	Fine	Rough	15:22	9.4	Middle	4.7	0.0	73	25.9	25.9	7.9	7.9	30.2	30.2	74.9	75.0	5.1	J	8.5	8.2	2	3	822149	807591
						4.7	0.0	70	25.9		7.9		30.2		75.0		5.1		8.6	1	4	-		
					Bottom	8.4	0.0	76	26.0	26.0	7.9	7.9	30.3	30.3	74.2	74.2	5.1	5.1	9.1		4			
						8.4	0.0	74	26.0		7.9		30.3		74.2		5.1		9.2		4			
					Surface	1.0	0.0	55	27.2	27.2	7.9	7.9	27.9	27.9	79.7	79.7	5.4	-	5.1	4	4			
						1.0	0.1	61	27.2		7.9		27.9		79.7		5.4	5.4	5.2	-	3			
SR4A	Fine	Rough	17:04	10.1	Middle	5.1	0.0	40	27.1	27.1	7.9	7.9	28.1	28.1	79.0	79.0	5.4 5.4	-	5.9	6.3	2	3	817197	807803
						5.1	0.1	33	27.1				28.1		79.0				5.9	1	3			
					Bottom	9.1 9.1	0.0	69 75	27.0 27.0	27.0	7.9	7.9	28.3	28.3	78.5 78.5	78.5	5.3	5.3	7.9 8.0	1	2 2			
			1	l		1.0	0.1	- 75	27.0		7.9		24.2				5.3	-	5.5		3			<del>                                     </del>
					Surface	1.0	-		27.0	27.0	7.9	7.9	24.2	24.2	76.4 76.3	76.4	5.3	-	5.7	1	2			
						1.0	-		-		7.9	-	- 24.2		- 10.3		-	5.3	5.7	1	-			
SR8	Cloudy	Rough	15:08	5.0	Middle	-	-		+ -	-	-			-		-		-		8.1		3	820402	811629
					<u> </u>	4.0	-		25.8		7.9	-	27.6		71.9		5.0	-	10.7	1	3			
					Bottom	4.0	-		25.8	25.8	7.9	7.9	27.6	27.6	72.3	72.1	5.0	5.0	10.7	1	2			
A: Depth-Aver			1			4.0			1 20.0		1.0		21.0		12.5		J.U		10.7					

DA: Depth-Averaged

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

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

Note: The ebb tide and flood tide monitoring sessions on 2 September 2023 was cancelled due No.8 Southeast Gale Storm Signal.

Water Quality Monitoring Results on 05 September 23 during Mid-Flood Tide

Water Qual	ity wonite	oring Resu	its on		05 September 23	during Mid-		de																
Monitoring	Weather	Sea	Sampling	Water			Current Speed	Current	Water Te	emperature (°C)	p	Н	Salin	ity (ppt)		aturation (%)	Dissolv Oxyge		Furbidity	/(NTU)	Suspende (mg/		Coordinate	Coordinate
Station	Condition	Condition	Time	Depth (m)	Sampling Dept	th (m)	(m/s)	Direction	Value	Average	Value	Average	Value	Average		ì	T T		Value	DA	Value	DA	HK Grid (Northing)	HK Grid (Easting)
					1	1.0	0.2	21	27.6		7.8		22.4		84.9		5.9		1.5	<u> </u>	4			
					Surface	1.0	0.2	13	27.6	27.6	7.8	7.8	22.4	22.4	84.9	84.9	5.9	-	1.5	+	4			
						3.7	0.2	15	27.5		7.8		22.4				5.8	5.9	2.4	+	4			
C1	Rainy	Rough	10:05	7.4	Middle	3.7	0.3	18	27.5	27.5	7.8	7.8	22.9	22.9	83.9 83.8	83.9	5.8	-	2.4	3.2	3	4	815608	804266
						6.4	0.3	17	27.1		7.8		26.0		78.3		5.4		5.8	-	3			
					Bottom	6.4	0.3	10	27.1	27.1	7.8	7.8	26.0	26.0	78.4	78.4	5.4	5.4	5.8	1	3			
					Surface	1.0	0.4	1	26.7	26.7	7.9	7.9	26.3	26.4	84.5	84.5	5.8		3.7		4			
					Suпасе	1.0	0.4	7	26.6	26.7	7.9 7.9	7.9	26.4	26.4	84.5 84.4	84.5	5.9	5.6	3.8		4			
C2	Cloudy	Pough	11:50	9.7	Middle	4.9	0.4	5	26.1	26.1	7.9	7.9	29.7	29.7	77.5	77.5	5.3	5.6	5.5	5.9	2	3	825692	806956
C2	Cloudy	Rough	11:50	9.7	ivildale	4.9	0.4	2	26.1	20.1	7.9	7.9	29.8	29.7	77.4	11.5	5.3		5.6	5.9	4	3	623692	800930
					Bottom	8.7	0.4	13	25.8	25.8	8.0	8.0	31.2	31.2	77.2 77.2	77.2	5.3	5.3	8.4		2			
					Bottom	8.7	0.3	17	25.8	25.6	8.0	6.0	31.2	31.2	77.2	11.2	5.3	5.5	8.5		3			
					Surface	1.0	0.4	264	26.4	26.4	8.0	8.0	26.1	26.1	77.3 77.3	77.3	5.4		1.4		3			
					Curiace	1.0	0.4	262	26.4	20.4	8.0	0.0	26.1	20.1		77.0	5.4	5.2	1.4		3			
С3	Cloudy	Moderate	10:11	11.5	Middle	5.8	0.4	276	25.7	25.7	8.0	8.0	27.8	27.8	72.3	72.3	5.0	J.2	2.2	4.7	3	3	822122	817802
00	Cloudy	Moderate	10.11	11.0	Wildele	5.8	0.4	274	25.7	20.7	8.0	0.0	27.8	27.0	72.3	72.0	5.0		2.4	J,	3	ŭ	OZZIZZ	017002
					Bottom	10.5	0.5	264	25.2	25.2	8.0	8.0	29.5	29.5	70.7	70.8	4.9		10.3		4			
						10.5	0.4	267	25.2		8.0		29.5		70.8		4.9		10.3		3			
					Surface	1.0	0.2	16	27.6	27.6	7.8	7.8	22.4	22.4	83.8	83.8	5.8		2.6		4			
						1.0	0.2	14	27.6		7.8		22.4		83.8		5.8	5.8	2.6		3			
IM1	Cloudy	Rough	10:30	6.7	Middle	3.4	0.2	5	27.4	27.4	7.8	7.8	23.1	23.1	81.8	81.8	5.7	· ·	3.7	3.8	3	4	818331	806469
	1	Ü				3.4	0.3	5	27.4		7.8		23.1		81.8		5.7		3.7	_	4			
					Bottom	5.7	0.2	20	27.0	27.0	7.8	7.8	25.9	25.9	79.4 79.5	79.5	5.5	5.5	5.0	_	4			
						5.7	0.2	15	27.0				26.0				5.5		5.1		3			
					Surface	1.0	0.2	9	27.7	27.7	7.8	7.8	22.2	22.2	84.5 84.5	84.5	5.9	-	2.6	-	3			
						1.0 3.5	0.2	10 10	27.6				22.2				5.9 5.8	5.9 —	2.6	-	3			
IM2	Cloudy	Rough	10:37	6.9	Middle	3.5	0.2	11	27.6	27.6	7.8	7.8	22.7	22.7	83.5 83.5	83.5	5.8	-	2.6	3.0	2	3	819159	806250
						5.9	0.2	28	27.3				23.9						3.9	+	3			
					Bottom	5.9	0.2	21	27.3	27.3	7.8	7.8	23.9	23.9	79.7 79.7	79.7	5.5 5.5	5.5	3.9	+	3			
					1	1.0	0.2	337	27.5		7.8						5.8		2.9		4			
					Surface	1.0	0.2	336	27.5	27.5	7.8	7.8	22.4	22.4	82.9 82.6	82.8	5.8		3.0	1	2			
						4.0	0.2	327	27.1		7.9		24.6		80.4		5.6	5.7	3.9	1	2			
IM7	Cloudy	Rough	11:04	7.9	Middle	4.0	0.2	331	27.1	27.1	7.9	7.9	24.6	24.6	80.5	80.5	5.6		3.8	5.0	2	3	821340	806850
					D.#	6.9	0.2	358	26.2	00.0	7.9	7.0	29.7	00.7	78.5	70.0	5.4		8.3	1	3			
					Bottom	6.9	0.3	354	26.2	26.2	7.9	7.9	29.7	29.7	78.6	78.6	5.4	5.4	8.4	1	2			

DA: Depth-Averaged

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

<u>Value exceeding Action Level is underlined</u>; <u>Value exceeding Limit Level is bolded and underlined</u>

Note: The ebb tide and flood tide monitoring sessions on 2 September 2023 was cancelled due No.8 Southeast Gale Storm Signal.

Water Quality Monitoring Results on

05 September 23 during Mid-Flood Tide

water Quai	ity worm	orning ixesu	its oii		us September 23	uuring miu-		ue																
Monitoring	Weather	Sea	Sampling	Water	Sampling Dept	h (m)	Current Speed	Current	Water Te	emperature (°C)		pН	Salin	ity (ppt)		aturation (%)	Dissol Oxyg		Turbidity	/(NTU)	Suspender (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling Dept	()	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.3	293	26.2	26.2	7.9	7.9	23.9	23.9	77.6	77.3	5.5		3.4		2			
					Curiado	1.0	0.3	292	26.2	20.2	7.9	1.0	24.0	20.0	77.0	77.0	5.4	5.2	3.7	1	2			
IM10	Cloudy	Rough	11:29	8.5	Middle	4.3	0.3	284	25.8	25.8	7.9	7.9	27.3	27.4	71.1	71.1	5.0	0.2	6.0	6.2	3	2	822219	809829
	,					4.3	0.4	281	25.8		7.9		27.4		71.1		5.0		6.1		3	-		******
					Bottom	7.5	0.4	273	25.6	25.6	7.9	7.9	27.8	27.8	72.0	72.2	5.0	5.1	8.9	1	2			
						7.5	0.4	274	25.6		7.9		27.8		72.4		5.1		9.1		2			
					Surface	1.0	0.4	267	26.3	26.3	7.9	7.9	25.3	25.3	76.6	76.6	5.4		2.3	1	3			
						1.0	0.4	260	26.3		7.9		25.4		76.6		5.4	5.2	2.3	1	4			
IM11	Cloudy	Rough	11:22	8.2	Middle	4.1	0.4	277	25.9	25.9	7.9	7.9	26.9	26.9	72.1	72.1	5.0		6.8	5.5	4	3	821524	810555
	,	3				4.1	0.4	273	25.9		7.9		26.9		72.1		5.0		6.8	1	3	-		
					Bottom	7.2	0.4	257	25.9	25.9	7.9	7.9	27.0	27.0	72.2	72.2	5.0	5.0	7.5	1	3			
						7.2	0.4	258	25.9		7.9		27.0		72.2		5.0		7.5		3			
					Surface	1.0	0.4	290	26.6	26.6	7.9	7.9	23.7	23.8	78.5	78.5	5.5		1.9	4	4			
						1.0	0.4	293	26.6		7.9		23.8		78.4		5.5	5.3	2.0	4	4			
IM12	Cloudy	Rough	11:15	7.6	Middle	3.8	0.5	281	25.8	25.8	7.9	7.9	27.2	27.2	71.3	71.3	5.0		5.6	5.3	2	4	821181	811541
	,	3				3.8	0.5	281	25.8		7.9		27.2		71.3	-	5.0		5.6	1	4			
					Bottom	6.6	0.5	287	25.7	25.7	7.9	7.9	27.5	27.5	71.3	71.4	5.0	5.0	8.3	1	4			
						6.6	0.4	286	25.7		7.9		27.5		71.4		5.0		8.2		4			
					Surface	1.0	0.0	203	26.6	26.6	7.9	7.9	24.8	24.9	72.8	72.7	5.1		4.6	-	3			
						1.0	0.0	202	26.5		7.9		25.0		72.5		5.1	5.1	4.8	1	4			
SR1A	Cloudy	Moderate	10:47	5.4	Middle	2.7	0.0	199	-	_	-	-	-	-	-	_	-		-	7.7	-	3	819981	812660
	,					2.7	0.0	195	-		-		-		-		-			4	-			
					Bottom	4.4	0.0	196	26.2	26.2	7.9	7.9	26.2	26.2	70.9	70.9	4.9	4.9	10.9	1	3			
						4.4	0.0	199	26.2		7.9		26.2		70.9		4.9		10.6	ļ	3			
					Surface	1.0	0.1	252	26.3	26.3	7.9	7.9	25.7	25.7	75.5	75.5	5.3		1.8	4	3			
						1.0	0.0	253	26.3		7.9		25.7		75.4		5.3	5.3	1.8	4	3			
SR2	Cloudy	Moderate	10:32	4.6	Middle	-	0.1	244	-	_	-	-	-	-	-	_	-		-	3.3	-	3	821478	814153
	,						0.1	238	-				-		-		-		-	4	-			
					Bottom	3.6	0.2	242	26.0	26.0	7.9	7.9	26.5	26.6	72.2	72.1	5.0	5.0	4.8	-	3			
						3.6	0.2	234	26.0		7.9		26.7		71.9		5.0		5.0		4			
					Surface	1.0	0.3	339	27.6	27.6	7.8	7.8	22.1	22.1	83.6	83.6	5.8		2.5	-	2			
						1.0	0.3	341	27.6		7.8		22.1		83.6		5.8	5.8	2.5	4	2			
SR3	Cloudy	Rough	11:16	9.1	Middle	4.6	0.4	0	27.5	27.5	7.8	7.8	22.7	22.7	83.0	83.0	5.8		2.9	3.1	3	3	822127	807579
		-				4.6	0.4	3	27.5		7.8		22.7		83.0		5.8		2.9	4	3			
					Bottom	8.1	0.3	318	27.1	27.1	7.9	7.9	24.4	24.4	80.3 80.3	80.3	5.6	5.6	3.8	-	3			
			<del>                                     </del>			8.1	0.3	311	27.1	<u> </u>	_		24.4		_		5.6		3.8	<del>                                     </del>	3			
					Surface	1.0	0.0	229	27.5	27.5	7.8	7.8	22.5	22.5	83.2 82.9	83.1	5.8	}	3.4	+	3			
						1.0	0.1	234	27.5		7.8		22.5				5.8	5.8	3.4	+	2			
SR4A	Rainy	Rough	09:35	9.7	Middle	4.9	0.0	206 210	27.3 27.3	27.3	7.8	7.8	24.3	24.3	81.9 82.1	82.0	5.7 5.7	- }	4.8	4.9	3	3	817178	807801
						8.7	0.0	210	27.3		7.8		26.0		79.6		5.7		6.4	+	3			
					Bottom	8.7	0.1	234	27.1	27.1	7.8	7.8	26.0	26.0	79.6	79.7	5.5	5.5	6.4	+	2			
			+			1.0	- 0.0	-	26.5		7.9		24.5		74.4		5.2		3.6	<del>                                     </del>	2			
					Surface	1.0	-	-	26.5	26.5	7.9	7.9	24.5	24.5	74.4	74.4	5.2	ŀ	3.6	+	3			
						1.0	-	-	20.5		7.9						-	5.2	3.0	+		ļ		
SR8	Cloudy	Rough	11:10	5.0	Middle	-	-	-	-	-	-	- 1	-	-	-	-	-	}		4.5	-	3	820407	811617
						4.0	-	-	25.9		7.9		27.3		69.9		4.9		5.5	+	4			
					Bottom	4.0	-	-	25.9	25.9	7.9	7.9	27.3	27.3	70.0	70.0	4.9	4.9	5.2	+	2	ļ		
DA: Denth-Aver			1			4.0	-	-	<sub> </sub> 25.9		1.9		21.3		/ / / / /		4.9		5.2	1	4			

DA: Depth-Averaged

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

<u>Value exceeding Action Level is underlined;</u> <u>Value exceeding Limit Level is bolded and underlined</u>

Note: The ebb tide and flood tide monitoring sessions on 2 September 2023 was cancelled due No.8 Southeast Gale Storm Signal.

Water Quality Monitoring Results on 07 September 23 during Mid-Ebb Tide

Monitoring	Weather	Sea	Sampling	Water	Sampling Dep	th (m)	Current Speed	Current	Water Te	emperature (°C)		рН	Salin	ity (ppt)	DO S	Saturation (%)	Disso Oxy		Turbidity	/(NTU)	Suspende (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Camping Dep	ur (m)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.4	213	26.9	26.9	7.9	7.9	25.3	25.3	82.1	82.1	5.7		4.0		9			
					Odriace	1.0	0.4	207	26.8	20.5	7.9	7.5	25.3	20.0	82.0	02.1	5.7	5.3	3.8		8			
C1	Cloudy	Moderate	05:41	8.5	Middle	4.3	0.4	203	25.6	25.6	7.9	7.9	32.7	32.7	72.1	72.1	4.9	0.0	8.2	7.8	9	9	815596	804250
, , , , , , , , , , , , , , , , , , ,	Cloudy	Moderate	00.41	0.0	Wilduio	4.3	0.4	204	25.6	20.0	7.9	7.0	32.7	02.1	72.1	72	4.9		8.4	] 7.0	9		010000	004200
					Bottom	7.5	0.4	219	25.6	25.6	7.9	7.9	32.7	32.7	72.4	72.5	4.9	4.9	11.3	1	11			
					2010111	7.5	0.4	211	25.6	20.0	7.9	7.0	32.7	OZ.	72.5	12.0	4.9		11.4	<u> </u>	10			
					Surface	1.0	0.7	173	27.7	27.7	7.9	7.9	19.4	19.4	86.0	86.0	6.1		2.3		4			
						1.0	0.7	168	27.7		7.9		19.4		86.0	00.0	6.1	5.7	2.3	1	4			
C2	Cloudy	Moderate	07:33	11.8	Middle	5.9	0.7	163	27.0	27.0	7.9	7.9	27.9	27.9	76.6 76.8	76.7	5.2	0	2.5	6.1	4	4	825667	806966
	O.ouu,	moderate	01.00		madio	5.9	0.7	164	27.0	20	7.9		27.9	27.0			5.2		2.5	]	4	·	02000.	000000
					Bottom	10.8	0.7	155	26.5	26.5	7.9	7.9	29.3	29.3	76.4	76.5	5.2	5.2	13.8	1	5			
						10.8	0.7	157	26.5		7.9		29.3		76.5		5.2		13.3		4			
					Surface	1.0	0.3	69	26.2	26.2	8.0	8.0	26.3	26.3	73.4	73.4	5.1		0.6	1	3			
						1.0	0.2	61	26.2		8.0		26.3		73.4		5.1	4.9	0.6	1	4			
СЗ	C3 Misty	Moderate	06:48	10.6	Middle	5.3	0.3	54	25.7	25.7	8.0	8.0	28.0	28.0	68.0	68.0	4.7		1.6	1.4	3	3	822126	817795
			*****			5.3	0.3	49	25.7		8.0		28.1		68.0		4.7		1.6	1	3			
					Bottom	9.6	0.3	95	25.5	25.5	7.9	7.9	28.8	28.8	67.2	67.2	4.7	4.7	2.0	1	3			
			1			9.6	0.2	99	25.5		7.9		28.8		67.2		4.7		2.0	-	2			<u> </u>
					Surface	1.0	0.3	192	26.5	26.5	7.9	7.9	28.1	28.1	81.3	81.3	5.6		3.9	-	4			
						1.0	0.3	198	26.4		7.9		28.2		81.2		5.6	5.4	4.0	1	5			
IM1	Cloudy	Moderate	06:12	6.5	Middle	3.3	0.4	203	25.9	25.9	7.9	7.9	31.8	31.8	74.6 74.5	74.6	5.1		5.0	6.4	4	4	818373	806467
	-					3.3	0.4	203	25.9		7.9		31.8				5.1		5.4	-	4			
					Bottom	5.5 5.5	0.3	215 214	25.5 25.5	25.5	7.9 7.9	7.9	32.9 32.9	32.9	71.7 71.8	71.8	4.9 4.9	4.9	10.3 10.0	+	4			
						1.0	0.3	215	26.1				30.9				5.2		9.1	1	10			
					Surface	1.0	0.4	221	26.1	26.1	7.9 7.9	7.9	30.9	30.9	75.8 75.7	75.8	5.2		9.6	+	10			
						3.4	0.4	187	25.7				32.0				5.0	5.1	8.9	+	12			
IM2	Cloudy	Moderate	06:17	6.8	Middle	3.4	0.4	183	25.7	25.7	7.9 7.9	7.9	32.0	32.1	73.6 73.5	73.6	5.0		8.4	10.1	11	11	819182	806226
						5.8	0.4	180	25.7		7.9		33.0		72.7		4.9		12.3	+	12			
					Bottom	5.8	0.4	176	25.5	25.5	7.9	7.9	33.0	33.0	72.7	72.7	4.9	4.9	12.1	1	13			
			+		1	1.0	0.4	202	26.5		7.9		27.2		79.6		5.5		3.1	<del>                                     </del>	12			1
					Surface	1.0	0.3	200	26.5	26.5	7.9	7.9	27.2	27.2	79.4	79.5	5.5		3.1	1	11			
						4.0	0.3	196	26.0		7.9		30.5		76.8		5.3	5.4	5.1	1	11			
IM7	Cloudy	Moderate	06:51	8.0	Middle	4.0	0.3	188	26.0	26.0	7.9	7.9	30.3	30.4	76.7	76.8	5.3		5.3	5.0	10	11	821355	806819
						7.0	0.2	204	25.7		7.9		32.1		76.1		5.2		6.6	1	11			
					Bottom	7.0	0.4	203	25.7	25.7	7.9	7.9	32.1	32.1	76.3	76.2	5.2	5.2	6.5	1	10			

DA: Depth-Averaged

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

Water Quality Monitoring Results on 07 September 23 during Mid-Ebb Tide

Water Quar		ioning reco	1100 011		07 September 23	aaring iina																		
Monitoring	Weather	Sea	Sampling	Water	Sampling Day	ath (m)	Current Speed	Current	Water Te	emperature (°C)	F	рΗ	Salini	ity (ppt)		aturation (%)	Disso Oxy		Turbidity	/(NTU)	Suspende (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling Dep	our (111)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.3	128	26.9	26.9	7.9	7.9	19.7	19.7	79.0	79.0	5.7		0.9		3			
					Surface	1.0	0.3	127	26.8	20.9	7.9	7.9	19.7	19.7	78.9	79.0	5.7	5.4	1.0	1	3			
IM10	Misty	Moderate	08:00	9.8	Middle	4.9	0.3	127	26.2	26.2	7.9	7.9	26.2	26.3	72.3	72.3	5.1	5.4	1.3	1.6	3	3	822225	809849
IIVI IO	iviisty	iviouerate	00.00	9.0	Middle	4.9	0.4	128	26.1	20.2	7.9	1.5	26.3	20.5	72.2	12.3	5.0		1.3	1.0	2	3	022223	009049
					Bottom	8.8	0.4	130	25.7	25.7	7.9	7.9	27.6	27.6	72.2	72.3	5.0	5.0	2.4		2			
					Dottom	8.8	0.4	130	25.7	25.1	7.9	1.5	27.6	27.0	72.3	12.5	5.0	5.0	2.4		2			
					Surface	1.0	0.3	114	27.1	27.1	7.9	7.9	19.2	19.2	80.1	80.1	5.7		1.2		2			
					Ouriace	1.0	0.3	116	27.0	27.1	7.9	1.5	19.2	13.2	80.0	00.1	5.7	5.4	1.1		2			
IM11	Misty	Moderate	07:53	7.8	Middle	3.9	0.3	94	26.3	26.3	7.9	7.9	25.5	25.5	71.7	71.7	5.0	0.4	1.4	1.9	2	2	821510	810525
110111	iviloty	Woderate	07.55	7.0	Wildale	3.9	0.2	90	26.3	20.5	7.9	1.5	25.4	20.0	71.7	7 1.7	5.0		1.4	1.5	2	2	021310	010020
					Bottom	6.8	0.3	88	25.9	25.9	7.9	7.9	27.0	26.9	69.2	69.3	4.8	4.8	3.2		3			
					Dottom	6.8	0.4	94	25.9	25.9	7.9	1.5	26.9	20.9	69.4	09.5	4.8	4.0	3.2		2			
					Surface	1.0	0.5	101	26.9	26.9	7.9	7.9	20.8	20.8	77.6	77.6	5.5		1.1		2			
					Surface	1.0	0.5	98	26.9	20.9	7.9	1.5	20.8	20.0	77.5	77.0	5.5	5.2	1.1		2			
IM12	Misty	Moderate	07:47	8.0	Middle	4.0	0.5	93	26.0	26.0	7.9	7.9	26.4	26.4	69.5	69.5	4.9	5.2	1.3	1.6	2	2	821141	811511
110112	iviisty	iviouerate	07.47	0.0	Middle	4.0	0.4	94	26.0	20.0	7.9	1.5	26.5	20.4	69.4	09.5	4.9		1.3	1.0	2	2	021141	011311
					Bottom	7.0	0.5	84	25.5	25.5	7.9	7.9	28.3	28.3	69.2	69.4	4.8	4.9	2.4		3			
					Dottom	7.0	0.5	84	25.5	25.5	7.9	1.5	28.3	20.0	69.5	03.4	4.9	4.5	2.4		2			
					Surface	1.0	0.0	51	27.0	27.0	7.9	7.9	20.5	20.5	80.2	80.1	5.7		0.2		2			
					Surface	1.0	0.0	46	27.0	27.0	7.9	1.5	20.5	20.5	80.0	00.1	5.7	5.7	0.2		2			
SR1A	Misty	Moderate	07:22	3.8	Middle	1.9	0.0	40					-		-		-	5.1	-	0.6	-	3	819973	812660
SICIA	iviisty	iviouerate	07.22	3.0	Middle	1.9	0.0	43		-		-	-	-	-	-	-		-	] 0.0	-	3	019973	012000
					Bottom	2.8	0.0	43	26.7	26.7	7.9	7.9	23.5	23.6	78.3	78.3	5.5	5.5	1.0	1	4			
					Dottom	2.8	0.0	49	26.7	20.7	7.9	1.5	23.6	23.0	78.3	70.5	5.5	5.5	1.0		3			
					Surface	1.0	0.4	42	27.0	27.0	7.9	7.9	21.3	21.3	78.7	78.7	5.6		0.6		2			
					Surface	1.0	0.4	36	27.0	27.0	7.9	1.5	21.3	21.5	78.6	70.7	5.6	5.6	0.6		2			
SR2	Misty	Moderate	07:09	5.0	Middle	-	0.4	49	-		-		-	_	-		-	5.0	-	0.9	-	3	821472	814149
3112	iviisty	ivioderate	07.09	3.0	Middle	-	0.4	47	-		-		-		-	-	-		-	] 0.9	-	3	021472	014149
					Bottom	4.0	0.5	62	26.2	26.2	7.9	7.9	25.9	25.9	72.1	72.1	5.0	5.0	1.1		2			
					Dottom	4.0	0.5	60	26.2	20.2	7.9	1.5	25.9	20.0	72.0	72.1	5.0	5.0	1.1		4			
					Surface	1.0	0.5	160	27.5	27.5	7.9	7.9	19.3	19.4	84.9	84.8	6.0		2.0		2			
					Ouriace	1.0	0.5	163	27.4	27.5	7.9	1.5	19.4	13.4	84.7	04.0	6.0	5.7	2.1		2			
SR3	Cloudy	Moderate	07:02	8.4	Middle	4.2	0.5	149	27.0	27.0	7.9	7.9	27.0	27.0	79.1	79.2	5.4	0.7	2.2	2.2	3	3	822155	807569
0110	Cloudy	Woderate	07.02	0.4	Wildale	4.2	0.5	153	27.0	27.0	7.9	1.5	27.0	27.0	79.2	13.2	5.4		2.3	2.2	2	3	022100	007303
					Bottom	7.4	0.5	170	27.0	27.0	7.9	7.9	27.0	27.0	79.6	79.7	5.5	5.5	2.3		3			
					Bottom	7.4	0.5	169	27.0	27.0	7.9	7.0	27.0	21.0	79.7	70.7	5.5	0.0	2.4		3			
					Surface	1.0	0.0	84	27.2	27.2	7.8	7.8	28.2	28.2	77.2	77.2	5.2		7.4		10			
						1.0	0.0	86	27.2		7.8		28.2		77.2		5.2	5.2	7.4	1	8			
SR4A	Cloudy	Moderate	05:15	8.4	Middle	4.2	0.0	90	27.0	27.0	7.8	7.8	28.5	28.5	76.4	76.5	5.2	0.2	7.2	7.9	9	9	817198	807804
5	o.cuu,		000			4.2	0.0	94	27.0	2	7.8		28.5		76.5		5.2		7.3	]	8	ŭ	000	33.334
					Bottom	7.4	0.0	87	26.1	26.1	7.8	7.8	30.9	30.9	72.6	72.6	4.9	4.9	9.1	1	8			
					25110111	7.4	0.0	91	26.1		7.8		30.9		72.6	0	4.9		9.1		8			
					Surface	1.0	-	-	27.1	27.1	8.0	8.0	20.6	20.7	80.0	79.9	5.7		1.1		4			
					Cultuo	1.0	-	-	27.0	21.1	8.0	0.0	20.7	20.7	79.8	70.0	5.7	5.7	1.1	1	4			
SR8	Misty	Moderate	07:42	4.4	Middle	-	-	-	-	_	-	_	-	_	-	_	-	0.1	-	1.2	-	3	820377	811626
0.10	Wiloty	Moderate	07.72	1.3	Middle	-	-	-	-		-		-		-		-		-	J	-	J	020017	011020
					Bottom	3.4	-	-	26.7	26.7	7.9	7.9	23.3	23.3	78.1	78.2	5.5	5.5	1.3	1	3			
DA: Donth Aver					25110111	3.4	-	-	26.7	20.7	7.9		23.3	20.0	78.3	. 5.2	5.5	0.0	1.3	1	2			

DA: Depth-Averaged

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

Water Quality Monitoring Results on 07 September 23 during Mid-Flood Tide

Monitoring	Weather	Sea	Sampling	Water	Sampling Dept		Current Speed	Current	Water Te	emperature (°C)	pН		Salin	ity (ppt)		aturation %)	Disso Oxy	olved rgen	Turbidity	(NTU)	Suspende (mg.		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling Depi		(m/s)	Direction	Value	Average	Value Av	verage	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.0	213	26.7	26.7	7.9	7.9	24.6	24.6	83.8	83.8	5.9		7.8		9			
					Ourlace	1.0	0.0	210	26.6	20.7	7.9	7.5	24.6	24.0	83.8	00.0	5.9	5.7	8.0		8			
C1	Rainy	Rough	18:47	8.1	Middle	4.1	0.1	220	26.2	26.2	7.9	7.9	29.9 30.0	29.9	78.7	78.7	5.4	] 5.7	9.8	8.4	9	9	815642	804237
01	Itality	rtougn	10.47	0.1	Wildelie	4.1	0.1	226	26.2	20.2	7.9	7.5	30.0	25.5	78.7	70.7	5.4		9.2	] 0.4	9		013042	004237
					Bottom	7.1	0.1	197	26.2	26.2	7.9	7.9	30.3	30.3	79.3	79.3	5.4	5.4	7.7	]	9			
					Bottom	7.1	0.0	203	26.2	20.2	7.9	7.0	30.3	00.0	79.3	70.0	5.4	0.4	7.9		10			
					Surface	1.0	0.1	319	27.8	27.8	7.9	7.9	18.8	18.8	84.8	84.8	6.0		1.9		5			
					Gundoc	1.0	0.0	315	27.7	27.0	7.9	7.0	18.8	10.0	84.7	04.0	6.0	5.6	1.9	1	4			
C2	Cloudy	Rough	17:02	11.8	Middle	5.9	0.0	327	26.9	26.9	7.9	7.9	28.1	28.1	75.4	75.5	5.2		1.7	3.3	4	4	825689	806964
						5.9	-	332	26.9		7.9		28.1		75.5		5.2		1.8	1	3	·		
					Bottom	10.8	0.1	349	26.5	26.5	7.9	7.9	29.3 29.3	29.3	73.7	73.8	5.0	5.0	6.4	4	2			
						10.8	0.1	351	26.5		7.9				73.8		5.0		6.3	<u> </u>	3			
					Surface	1.0	0.0	76	26.6	26.6	8.0	8.0	24.7 24.8	24.8	78.7	78.6	5.5		1.1	4	2			
						1.0 5.3	0.1	74	26.5		8.0				78.5		5.5	5.2	1.1	-	3			
C3	Misty	Moderate	18:34	10.6	Middle	5.3	0.0	65 58	25.5 25.5	25.5	8.0	8.0	28.7 28.8	28.8	69.2 69.1	69.2	4.8		2.3	2.4	2	2	822096	817821
						9.6	0.0	41	25.4		0.0				70.3		4.0		3.8	┨	2			
					Bottom	9.6	0.1	42	25.4	25.5	8.0	8.0	29.5 29.4	29.5	70.5	70.4	4.9	4.9	3.7	┨	2			
						1.0	0.0	197	26.7		70		27.4		81.4		5.6		2.9	1	8			
					Surface	1.0	0.0	196	26.6	26.7	7.9	7.9	27.5	27.5	81.4	81.4	5.6		3.0	†	9			
						3.2	0.0	203	25.8		7.0		31.6		74.6		5.1	5.4	7.5	1	9	_		
IM1	Rainy	Rough	18:21	6.3	Middle	3.2	0.0	205	25.8	25.8	7.9	7.9	31.8	31.7	74.4	74.5	5.1		7.5	6.7	9	9	818354	806481
					D.#	5.3	0.0	178	25.6	25.7	7.0	7.0		00.5	74.0	74.4	5.0	5.0	10.0	1	10			
					Bottom	5.3	0.1	178	25.7	25.7	7.9	7.9	32.5 32.5	32.5	74.1	74.1	5.0	5.0	9.3	1	10			
					Surface	1.0	0.1	185	25.9	25.9	7.9	7.9	29.7	29.8	78.7	78.6	5.4		4.8		3			
					Surface	1.0	0.0	183	25.8	25.9	7.9	7.9	29.9	29.0	78.5	70.0	5.4	5.3	5.5	1	2			
IM2	Rainy	Rough	18:14	6.5	Middle	3.3	0.0	176	25.6	25.6	7.9	7.9	32.8	32.8	74.6	74.7	5.1	] 3.3 [	8.2	7.7	3	3	819200	806258
IIVIZ	Itality	Rough	10.14	0.5	Middle	3.3	0.0	170	25.6	23.0	7.9	1.5	32.8	32.0	74.7	14.1	5.1		8.9	] '.'	3	١	019200	000230
					Bottom	5.5	0.1	208	25.6	25.6	8.0	8.0	32.9 32.9	32.9	76.1	76.6	5.2	5.2	9.9		3			
					Dottom	5.5	0.0	205	25.6	25.0	8.0	0.0		32.3	77.1	70.0	5.2	5.2	9.2		2			
					Surface	1.0	0.0	181	27.2	27.2	7.9	7.9	22.8	22.8	86.6	86.6	6.1	7	2.5		4			
						1.0	0.0	183	27.1	·	7.9	-			86.6		6.1	5.8	2.5	1	5			
IM7	Cloudy	Rough	17:43	8.4	Middle	4.2	-	161	26.3	26.3	7.9	7.9	28.6	28.6	79.5	79.4	5.5	"	4.0	5.3	4	4	821326	806843
		Ü				4.2	0.0	157	26.3		7.9		28.6		79.3		5.5		4.2	-	4			
					Bottom	7.4	0.0	197	26.0	26.0	7.9	7.9	31.3	31.3	79.5	79.7	5.4	5.4	9.3	-	3			
DA Danth Assa						7.4	0.1	194	26.0		7.9		31.3		79.8		5.4		9.4		3			

DA: Depth-Averaged

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

Water Quality Monitoring Results on 07 September 23 during Mid-Flood Tide

water Quai	ity woili	toring Rest	iits on		07 September 23	auring wia-	FIOOU I	iue																
Monitoring	Weather	Sea	Sampling	Water	Sampling Dep	th (m)	Current Speed	Current	Water Te	emperature (°C)		pН	Salin	ity (ppt)		aturation (%)	Disso Oxy	olved gen	Turbidity	(NTU)	Suspende (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling Dep	ur (m)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.0	285	27.0	27.0	7.9	7.9	19.3	19.3	79.5	79.5	5.7		1.0		2			
					Surface	1.0	0.0	279	27.0	27.0	7.9	7.5	19.3	19.5	79.4	19.5	5.7	5.4	1.0		3			
IM10	Misty	Moderate	17:00	9.0	Middle	4.5	0.1	283	26.4	26.4	7.9	7.9	24.2	24.2	72.9	72.8	5.1	3.4	1.9	2.0	2	2	822252	809832
IIVITO	iviloty	Woderate	17.00	3.0	Wildelic	4.5	0.1	277	26.3	20.4	7.9	7.5	24.2	24.2	72.7	72.0	5.1		1.8	] 2.0	3	2	022232	003032
					Bottom	8.0	0.0	278	25.8	25.8	7.9	7.9	27.5	27.5	71.5	71.7	5.0	5.0	3.1	_	<2			
					Bottom	8.0	0.0	282	25.8	20.0	7.9	7.0	27.5	27.0	71.8	,	5.0	0.0	3.1		<2			
					Surface	1.0	0.1	290	26.9	26.9	7.9	7.9	21.2	21.2	77.7	77.7	5.5		1.6	1	4			
						1.0	0.0	284	26.9		7.9		21.2		77.6		5.5	5.2	1.5	1	3			
IM11	Misty	Moderate	17:30	7.4	Middle	3.7	0.1	307	25.9	25.9	7.9	7.9	26.7	26.8	68.7	68.7	4.8		3.5	3.3	3	3	821492	810568
	,					3.7	0.1	299	25.9		7.9		26.8		68.6		4.8		3.5	1	3			
					Bottom	6.4	0.1	313	25.8	25.8	7.9	7.9	27.5	27.5	70.1	70.2	4.9	4.9	4.9	1	3			
						6.4	0.1	312	25.8		7.9		27.5		70.3		4.9		5.0	<u> </u>	3			
					Surface	1.0	0.1	309	27.0	27.0	7.9	7.9	21.1	21.1	78.9	78.9	5.6		1.0	4	3			
						1.0	0.1	307	27.0		7.9		21.1		78.8		5.6	5.3	1.1	-	4			
IM12	Misty	Moderate	17:36	7.6	Middle	3.8	0.1	302 304	26.0 26.1	26.1	7.9	7.9	26.4	26.4	71.4	71.4	5.0		1.7	1.9	3	3	821178	811515
						6.6	0.0	304			7.9		_		+				2.9	4	3			
					Bottom	6.6	0.0	319	25.6 25.6	25.6	7.9	7.9	28.0	28.0	69.5 69.8	69.7	4.9	4.9	2.9	1	2			
			1			1.0	0.0	20	26.8		7.9	<u> </u>	22.0		79.2	1	5.6		1.1	1	3			l
					Surface	1.0	0.0	13	26.8	26.8	7.9	7.9	22.0	22.0	78.9	79.1	5.6		1.1	1	3			
						2.2	0.0	5	-		-		-		-		-	5.6	-	1	-			
SR1A	Misty	Moderate	18:00	4.4	Middle	2.2	0.0	7		-		- 1	<u> </u>	-	<u> </u>	-			— <del>-</del>	1.3		3	819975	812657
					_	3.4	0.0	3	26.8		7.9		25.0		73.7		5.1		1.4	†	2			
					Bottom	3.4	0.0	5	26.8	26.8	7.9	7.9	25.0	25.0	74.0	73.9	5.1	5.1	1.5	†	2			
					0	1.0	0.1	36	26.2	00.0	7.9	7.0	25.7	05.7	74.3	74.0	5.2		2.1		3			
					Surface	1.0	0.1	40	26.1	26.2	7.9	7.9	25.7	25.7	74.1	74.2	5.2	5.2	2.0	1	2			
SR2	Misty	Moderate	18:13	5.0	Middle	-	0.1	55	-	_	-		-	_	-		-	5.2	-	2.7	-	2	821469	814160
SINZ	iviioty	ivioderate	10.13	3.0	Middle	-	0.1	49	-	-	-	] -	-	_	-	_	-		-	] 2.7	-	2	021409	014100
					Bottom	4.0	0.1	47	25.9	26.0	7.9	7.9	27.3	27.3	73.7	73.8	5.1	5.1	3.3		2			
					Bottom	4.0	0.1	40	26.0	20.0	7.9	7.0	27.3	27.0	73.9	70.0	5.1	0.1	3.3		2			
					Surface	1.0	0.0	357	27.9	27.9	7.9	7.9	20.1	20.1	84.9	84.9	6.0		2.0	1	4			
						1.0	0.0	356	27.9	20	7.9	1.0	20.1		84.9	00	6.0	5.7	2.0	1	3			
SR3	Cloudy	Rough	17:34	8.8	Middle	4.4	0.0	353	27.1	27.1	7.9	7.9	26.9	26.9	78.8	78.8	5.4		2.4	2.6	2	3	822153	807578
	,					4.4	0.1	350	27.1		7.9		26.8		78.8		5.4		2.4	4	3			
					Bottom	7.8	0.0	334	26.9	26.9	7.9	7.9	27.8	27.8	79.1	79.2	5.4	5.4	3.3	4	3			
						7.8	0.0	326	26.9		7.9	<u> </u>	27.8		79.3		5.4		3.3		2			
					Surface	1.0	0.0	313 309	27.1 27.1	27.1	7.9 7.9	7.9	26.9 26.9	26.9	81.7 81.6	81.7	5.6 5.6		5.6 5.7	1	9 8			
						4.2	0.0	287	26.7		7.9				76.4		5.6	5.4	7.0	1	9			
SR4A	Rainy	Moderate	19:14	8.4	Middle	4.2	0.0	287	26.7	26.7	7.9	7.9	28.9	28.9	76.4	76.5	5.2		7.0	7.0	9	9	817187	807821
						7.4	0.0	307	26.3		7.9		30.3		73.2		5.0		8.3	1	10			
					Bottom	7.4	0.0	303	26.3	26.3	7.9	7.9	30.3	30.3	73.3	73.3	5.0	5.0	8.5	1	10			
			1			1.0	-	- 303	27.0		7.9	<u> </u>	19.8		81.0		5.8		0.7	<u> </u>	4			
					Surface	1.0	-	_	27.0	27.0	7.9	7.9	19.7	19.7	80.9	81.0	5.8		0.7	†	2			
0.00		l	1			-	-	-	-		-		-		-		-	5.8	-	1	-			
SR8	Misty	Moderate	17:41	5.0	Middle	-	-	-	-	-	-	1 -	-	-	-	1 -	-		-	0.9	-	3	820410	811630
					Pottom	4.0	-	-	26.1	26.1	7.9	7.0	26.4	26.4	70.3	70.2	4.9	4.0	1.1	1	3			
	<u></u>			<u> </u>	Bottom	4.0	-		26.1	∠0.1	7.9	7.9	26.4	26.4	70.0	70.2	4.9	4.9	1.1	<u></u>	2			

DA: Depth-Average

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

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

Water Quality Monitoring Results on 09 September 23 during Mid-Ebb Tide

	ty mome	Jilly Kesu	113 011		09 September 23	during ima	LDD IIGC	*																
Monitoring	Weather	Sea	Sampling	Water	Sampling Dept	h (m)	Current Speed	Current	Water Te	emperature (°C)	F	Н	Salin	nity (ppt)		aturation (%)	Dissol Oxyg		Turbidity	(NTU)	Suspender (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling Dept		(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.4	216	26.1	26.1	7.9	7.9	20.3	20.2	76.9	77.0	5.6		2.0		5			
					Surface	1.0	0.4	218	26.1	20.1	7.9	1.9	20.1	20.2	77.0	77.0	5.6	5.5	2.0	]	4			
C1	Rainy	Rough	08:31	8.0	Middle	4.0	0.3	201	25.7	25.7	8.0	8.0	25.0	25.0	76.6	76.7	5.4	5.5	1.8	2.5	5	5	815599	804262
	ixaiiiy	Rough	00.51	0.0	ivildule	4.0	0.4	196	25.7	25.7	8.0	0.0	25.0	25.0	76.7	10.1	5.4		1.8	] 2.3	5	J	013399	004202
					Bottom	7.0	0.4	234	25.7	25.7	8.0	8.0	25.3	25.3	77.0	77.1	5.5	5.5	3.9		5			
					Dottom	7.0	0.4	230	25.7	20.1	8.0	0.0	25.3	20.0	77.1	77.1	5.5	5.5	3.8		6			
					Surface	1.0	0.6	178	27.0	27.0	7.7	7.7	11.6	11.6	66.7	66.8	5.0 5.0		4.4		4			
					Surface	1.0	0.6	178	27.0	27.0	7.7	1.1	11.6	11.0	66.8	00.0	5.0	4.7	4.5		5			
C2	Rainy	Rough	10:22	11.5	Middle	5.8	0.6	161	25.8	25.8	7.9	7.9	26.3	26.3	63.3 63.1	63.2	4.5	٦., [	3.3	4.7	5	5	825697	806963
02	ixaiiiy	Rough	10.22	11.5	ivildule	5.8	0.7	154	25.7	25.0	7.9	1.5	26.3	20.5	63.1	03.2	4.4		3.5	] 4.7	5	J	023091	000903
					Bottom	10.5	0.7	184	25.6	25.6	7.9	7.9	28.3	28.2	62.6 62.7	62.7	4.4	4.4	6.3		6			
					Dottom	10.5	0.7	185	25.6	25.0	7.9	1.5	28.2	20.2	62.7	02.7	4.4	4.4	6.3		6			
					Surface	1.0	0.3	70	26.7	26.7	7.9	7.8	25.9	25.9	84.5	84.5	5.9		1.1		4			
					Surface	1.0	0.3	73	26.7	20.7	7.8	7.0	25.9	25.9	84.4	04.5	5.9	5.5	1.1	1	4			
С3	Rainy	Moderate	08:35	10.0	Middle	5.0	0.4	66	26.5	26.5	7.8	7.8	28.9	28.9	75.4 75.3	75.4	5.2	3.3	1.2	1.5	4	4	822117	817784
C3	Railly	Moderate	06.33	10.0	ivildule	5.0	0.3	68	26.5	20.5	7.8	7.0	28.9	20.9	75.3	75.4	5.1		1.2	] 1.5	3	4	022117	017704
					Bottom	9.0	0.3	101	26.2	26.2	7.8	7.8	30.6	30.6	71.0	71.0	4.8	4.8	2.3		4			
					Bottom	9.0	0.3	103	26.2	20.2	7.8	7.0	30.6	30.0	71.0	71.0	4.8	4.0	2.3		3			
					Surface	1.0	0.3	203	25.8	25.8	8.0	8.0	26.2	26.2	75.8	75.7	5.3		1.0		5			
					Curiace	1.0	0.3	208	25.8	25.0	8.0	0.0	26.2	20.2	75.5	75.7	5.3	5.1	1.0		6			
IM1	Rainy	Moderate	08:58	6.2	Middle	3.1	0.3	185	25.5	25.5	8.0	8.0	27.4	27.4	70.6 70.5	70.6	5.0 4.9	J. 1	1.8	4.0	7	6	818369	806449
11011	rearry	Moderate	00.50	0.2	Wilddie	3.1	0.3	178	25.5	20.0	8.0	0.0	27.4	21.4		70.0			1.8	7.0	6	U	010303	000443
					Bottom	5.2	0.3	173	25.2	25.2	7.9 7.9	7.9	29.5	29.5	63.0 63.2	63.1	4.4	4.4	9.2		5			
					Dottom	5.2	0.3	174	25.2	20.2		7.5	29.5	23.5		00.1	4.4	7.7	9.3		5			
					Surface	1.0	0.5	215	25.9	25.9	7.9	7.9	23.1	23.1	75.3	75.3	5.4		1.9		5			
					Guilace	1.0	0.5	208	25.9	20.0	7.9	1.0	23.1	20.1	75.3	10.0	5.4	5.4	1.8		4			
IM2	Rainy	Moderate	09:03	6.7	Middle	3.4	0.4	208	25.7	25.8	8.0	8.0	26.6	26.6	75.9 75.9	75.9	5.3 5.3	J.4	1.1	2.4	4	5	819190	806228
IIVIZ	ranry	Moderate	03.00	0.7	WIIGGE	3.4	0.4	212	25.8	20.0	8.0	0.0	26.6	20.0		10.0			1.1		6	5	313130	000220
					Bottom	5.7	0.4	212	25.2	25.2	7.9 7.9	7.9	28.9	28.9	69.4	69.4	4.9	4.9	4.2	_	6			
					Dottom	5.7	0.5	218	25.2	20.2	7.9	1.0	29.0	20.0	69.4	00.4	4.9	7.0	4.5		4			
					Surface	1.0	0.3	210	26.7	26.7	7.8	7.8	9.6	9.6	77.6	77.6	5.9		3.6		6			
					Suriace	1.0	0.3	205	26.7	20.1	7.8	1.0	9.6	9.0	77.6	11.0	5.9	5.6	3.6	]	5			
IM7	Rainy	Moderate	09:42	7.1	Middle	3.6	0.3	206	26.5	26.5	7.9	7.9	18.6	18.6	71.0	71.0	5.2	5.0	2.2	3.6	4	5	821346	806839
IIVI7	ixaiiiy	Moderate	03.42	/.1	IVIIUUIC	3.6	0.3	201	26.5	20.5	7.9	1.5	18.5	10.0	71.0	71.0	5.2		2.4	] 3.0	3	5	021040	000009
					Bottom	6.1	0.3	190	25.3	25.3	7.9	7.9	28.6	28.6	66.9	67.0	4.7	4.7	4.9		4			
					Dollom	6.1	0.3	183	25.3	23.3	7.9	1.9	28.6	20.0	67.1	07.0	4.7	4.7	4.8		5			

DA: Depth-Averaged

Water Quality Monitoring Results on 09 September 23 during Mid-Ebb Tide

Trater Quar		<b>J</b>	1				Current		1						DO 9	aturation	Dissol	hav			Suspende	d Solids		
Monitoring	Weather	Sea	Sampling	Water	Sampling Dept	h (m)	Speed	Current	Water Te	emperature (°C)	!	рН	Salin	ity (ppt)		%)	Oxyg		Turbidity	(NTU)	(mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Camping Bop	()	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.4	117	27.2	27.2	7.8	7.8	17.1	17.1	77.6	77.6	5.6		3.5		3			
					Surface	1.0	0.4	118	27.2	21.2	7.8	7.0	17.1	17.1	77.6	77.0	5.7	5.5	3.4	1	4			
IM10	Rainy	Moderate	10:30	9.6	Middle	4.8	0.3	130	26.9	26.9	7.8	7.8	24.0	24.0	75.6	75.6	5.3	5.5	3.4	4.0	3	4	822263	809829
IIVITO	ixaiiiy	Wioderate	10.50	9.0	Wildule	4.8	0.3	134	26.9	20.9	7.8	7.0	24.0	24.0	75.6	73.0	5.3		3.4	4.0	4	4	022203	009029
					Bottom	8.6	0.4	121	26.2	26.2	7.8	7.8	29.3	29.3	72.3	72.3	5.0	5.0	5.2		4			
					Bottom	8.6	0.4	117	26.2	20.2	7.8	7.0	29.3	29.5	72.3	12.3	5.0	3.0	5.1		4			
					Surface	1.0	0.3	100	27.2	27.2	7.8	7.8	13.6	13.9	83.8	83.8	6.2		3.2		4			
					Guriace	1.0	0.2	98	27.2	21.2	7.8	7.0	14.2	10.0	83.8	00.0	6.1	5.8	3.1		4			
IM11	Rainy	Moderate	10:23	7.4	Middle	3.7	0.3	87	26.9	26.9	7.8	7.8	22.9	22.9	77.0	77.0	5.4	0.0	3.5	3.7	4	4	821516	810534
	rtairiy	Wioderate	10.23	/	Wilduic	3.7	0.3	83	26.9	20.5	7.8	7.0	22.9	22.5	77.0	77.0	5.4		3.5	3.7	4	7	021310	010334
					Bottom	6.4	0.3	80	26.5	26.5	7.8	7.8	27.4	27.4	74.3	74.4	5.1	5.1	4.6		4			
					Bottom	6.4	0.3	80	26.5	20.0	7.8	7.0	27.4	27	74.4	7-77	5.1	0.1	4.6		4			
					Surface	1.0	0.4	113	27.2	27.2	7.8	7.8	17.6	17.6	78.2	78.2	5.6		2.5		3			
					Gundoo	1.0	0.4	113	27.2	27.2	7.8	7.0	17.6	17.0	78.2	70.2	5.6	5.5	2.5		4			
IM12	Rainy	Moderate	10:17	8.0	Middle	4.0	0.4	109	26.9	26.9	7.8	7.8	22.9	22.9	76.8	76.8	5.4	0.0	3.0	3.2	5	4	821160	811525
	rtanry	Wioderate	10.17	0.0	Wilddie	4.0	0.4	102	26.9	20.0	7.8	7.0	22.9	22.0	76.7	70.0	5.4		3.0	0.2	4	-	021100	011020
					Bottom	7.0	0.3	118	26.4	26.4	7.8	7.8	29.0	29.0	65.3	65.4	4.5	4.5	4.1		4			
					Dotto	7.0	0.3	115	26.4		7.8		29.0	20.0	65.4		4.5		4.1		5			
					Surface	1.0	0.0	70	26.9	26.9	7.8	7.8	20.3	20.3	82.9	82.9	5.9		2.7		3			
					Gundoo	1.0	0.0	66	26.9	20.0	7.8		20.3	20.0	82.9	02.0	5.9	5.9	2.7		4			
SR1A	Rainy	Moderate	09:18	5.4	Middle	2.7	0.0	65	-	_	-	_	-	_	-	_	-	0.0	-	3.3	-	4	819971	812660
0		ouorato	00.10	0	madio	2.7	-	64	-		-		-		-		-		-	0.0	-	·	0.0011	0.2000
					Bottom	4.4	0.0	79	26.6	26.6	7.8	7.8	27.8	27.8	75.6	75.7	5.2	5.2	4.0		4			
					Dotto	4.4	0.0	84	26.6		7.8		27.8	27.0	75.7		5.2	0.2	4.0		4			
					Surface	1.0	0.5	37	27.1	27.1	7.9	7.9	14.0	14.0	83.2	83.2	6.1		3.4		4			
					- Guildoo	1.0	0.4	42	27.1		7.9		14.0		83.2		6.1	6.1	3.3		4			
SR2	Rainy	Moderate	09:04	5.2	Middle	-	0.5	53	-	_	-	_	-	_	-	_	-	0	-	3.9	-	4	821475	814153
0.12		ouorato	00.01	0.2	madio	-	0.5	49	-		-		-		-		-		-		-	·	020	011100
					Bottom	4.2	0.4	50	26.8	26.9	7.9	7.9	25.1	25.1	84.6	84.7	5.9	5.9	4.6		4			
					Dotto	4.2	0.4	48	26.9	20.0	7.9		25.1	20.1	84.8		5.9	0.0	4.6		4			
					Surface	1.0	0.6	153	26.8	26.8	7.8	7.8	9.4	9.4	73.7	73.6	5.6		3.6		5			
						1.0	0.6	154	26.8		7.8		9.4		73.5		5.6	5.3	3.5		4			
SR3	Rainy	Rough	09:52	8.4	Middle	4.2	0.5	151	26.6	26.6	7.8	7.8	21.3	21.4	69.7	69.7	5.0		1.8	5.5	5	4	822159	807568
	,					4.2	0.6	148	26.6		7.8		21.4		69.7		5.0		1.8		5			
					Bottom	7.4	0.5	140	26.2	26.2	7.8	7.8	23.6	23.6	69.3	69.4	4.9	4.9	11.0		3			
						7.4	0.5	143	26.2		7.8		23.6		69.4		4.9		11.3		4			
					Surface	1.0	0.0	90	25.4	25.4	8.0	8.0	23.2	23.2	76.7	76.5	5.5		2.4		4			
						1.0	0.1	91	25.3	-	8.0		23.2	_	76.2		5.5	5.1	2.6		4			
SR4A	Rainy	Moderate	08:00	8.6	Middle	4.3	0.0	84	25.2	25.2	8.0	8.0	29.0	29.0	66.2	66.2	4.6		4.1	4.0	4	4	817196	807807
	,					4.3	0.0	84	25.2		8.0		29.0		66.1		4.6		4.2		4			
					Bottom	7.6	0.0	76	25.2	25.2	8.0	8.0	29.4	29.4	66.0	66.1	4.6	4.6	5.2		4			
						7.6	0.0	71	25.2		8.0		29.4		66.1		4.6		5.4		4			
					Surface	1.0	-	-	27.3	27.3	7.8	7.8	13.9	13.9	85.7	85.7	6.3		1.2		3			
						1.0	-	-	27.3		7.8		13.9		85.7		6.3	6.3	1.2		4			
SR8	Rainy	Moderate	10:09	5.6	Middle	-	-	-	-	-	-	-	-	-	-	-	-		-	1.9	-	4	820408	811645
	•					-	-	-	-		-		-		-		-		-		-			
					Bottom	4.6	-	-	26.8	26.8	7.8	7.8	23.7	23.7	81.7	81.8	5.7	5.7	2.6		4			
			1			4.6	-	-	26.8		7.8		23.7		81.8		5.7		2.5		4			

DA: Depth-Averaged

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

water Qua	ity monit	oning Resu	แร บท		09 September 23	auring wia-	riooa ii	ae																
Monitoring	Weather	Sea	Sampling	Water	Sampling Dept	h (m)	Current Speed	Current	Water Te	emperature (°C)	pН		Salin	ity (ppt)		aturation (%)	Disso Oxyg		Turbidity	(NTU)	Suspende (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling Dept	ii (iii <i>)</i>	(m/s)	Direction	Value	Average	Value Ave	erage	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.0	78	25.9	25.9	7.9	'.9	23.5	23.6	73.2	73.2	5.2		1.9		4			
					Surface	1.0	0.0	72	25.9	25.9	7.9	ا "	23.6	23.0	73.1	13.2	5.2 5.2	4.9	1.9	1	4			
C1	Claudia	Moderate	21:44	8.5	Middle	4.3	-	84	25.3	25.3	7.9	.9	28.3	28.3	66.3	66.3	4.6	4.9	5.9	4.7	4	4	815620	804241
Ci	Cloudy	Moderate	21:44	6.5	Middle	4.3	0.0	84	25.3	25.3	7.9	.9	28.3	20.3	66.2	00.3	4.6		6.1	1 4.7	3	4	813020	604241
					D.#	7.5	0.0	52	25.2	25.2	7.9		29.0	29.0	65.4	65.4	4.6	4.0	6.5	1	4			
					Bottom	7.5	0.0	55	25.2	25.2	7.9		29.0	29.0	65.4 65.4	65.4	4.6	4.6	6.1	1	6			
					Surface	1.0	0.2	350	26.9	26.9	7.8		9.5	0.5	66.8	66.8	5.1		5.4		8			
					Surface	1.0	0.1	348	26.8	20.9	7.8 7.8	'.8	9.5	9.5	66.8 66.7	00.0	5.1	4.8	5.1	1	9			
C2	Classide	Daviele	20:05	11.7	Middle	5.9	0.2	335	25.9	25.9	7.9	.9	25.2	25.2	64.1	64.1	4.5	4.0	2.8	4.7	7	7	825669	806952
C2	Cloudy	Rough	20:05	11.7	Middle	5.9	0.2	335	25.9	25.9	7.9	.9	25.2	25.2	64.0	04.1	4.5		2.9	1 4.7	6	,	623009	800952
					Bottom	10.7	0.2	341	25.6	25.6	7.9		28.2	28.2	63.1	63.3	4.4	4.4	5.9	1	6			
					BOILOITI	10.7	0.2	337	25.6	25.0	7.9	.9	28.3	20.2	63.4	03.3	4.4	4.4	5.8		7			
					Surface	1.0	0.0	84	27.1	27.1	7.8	'.8 -	20.6	20.6	75.8	75.8	5.4		1.7		5			
					Ourlace	1.0	0.0	79	27.1	27.1	7.8		20.6	20.0	75.8	75.0	5.4	5.4	1.6		4			
C3	Rainy	Moderate	21:40	10.2	Middle	5.1	0.0	95	26.8	26.8	7.8	'.8	24.4	24.4	76.3 76.3	76.3	5.3 5.3	5.4	3.0	2.6	5	5	822105	817809
03	Italiiy	Woderate	21.40	10.2	Wilddie	5.1	0.1	102	26.8	20.0	7.8	.0	24.4	27.7		70.5			2.9	] 2.0	4	3	022103	017003
					Bottom	9.2	0.1	60	26.6	26.6	7.8		26.7	26.6	75.5 75.6	75.6	5.2	5.2	3.3	1	4			
					Bottom	9.2	0.0	65	26.6	20.0	7.8		26.6	20.0	75.6	70.0	5.2	0.2	3.3		5			
					Surface	1.0	0.1	33	25.8	25.8	8.0		24.7	24.8	83.6	83.6	5.9		1.2	1	4			
						1.0	0.1	34	25.8	20.0	8.0		24.8	20	83.5	00.0	5.9	5.2	1.2	1	5			
IM1	Cloudy	Moderate	21:16	6.5	Middle	3.3	0.0	51	25.3	25.3	7.9		28.8	28.8	64.6	64.6	4.5	0.2	3.4	3.6	4	4	818363	806455
	0.00.00					3.3	0.1	52	25.3		7.9		28.8		64.6		4.5		3.4	1	4			
					Bottom	5.5	0.0	64	25.1	25.1	7.9		29.9	29.9	57.9	58.0	4.0	4.0	6.2	1	3			
						5.5	0.0	62	25.1		7.9		29.9		58.0		4.0		6.3	<u> </u>	4			
					Surface	1.0	0.1	29	25.7	25.7	8.0	3.0	25.3	25.3	79.8	79.8	5.6		1.4	1	5			
						1.0	0.1	27	25.7		8.0		25.3		79.7		5.6	5.4	1.4	4	4			
IM2	Cloudy	Moderate	21:09	7.2	Middle	3.6	0.0	47	25.5	25.5	7.9		27.3	27.3	72.4	72.4	5.1		1.9	4.0	5	5	819164	806225
						3.6	0.0	43	25.5		7.9	_	27.3		72.3		5.1		2.0	4	3			
					Bottom	6.2	0.0	24	25.1	25.1	7.9 7.9	'.9	30.0	30.0	58.1 58.3	58.2	4.1	4.1	8.3	4	5			
						6.2	0.0	28	25.1										8.8	<u> </u>	6			
					Surface	1.0 1.0	0.1	51 47	26.8 26.8	26.8	7.8 7.8	'.8 -	9.5 9.5	9.5	76.0 75.9	76.0	5.8 5.8		4.2 4.2	-	8 4			
						4.1	0.1										4.8	5.3		4				
IM7	Cloudy	Rough	20:41	8.2	Middle	4.1	0.1	24	26.3 26.3	26.3	7.9 7.9	'.9	22.5 22.5	22.5	68.0 68.0	68.0	4.8		6.9 7.0	7.7	10 10	7	821353	806842
						7.2	0.1	51	25.7										11.9	1	$\overline{}$			
					Bottom	7.2	0.0	49	25.7	25.7	7.9 7.9	'.9	26.5 26.7	26.6	66.2 66.3	66.3	4.6	4.7	11.9	1	5 5			
						1.2	0.0	49	25./		7.9		∠0./		00.3		4./		11.8	<u> </u>				

DA: Depth-Averaged

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

Water Quu	110				00 Ocpteniber 20	aaring iiia	oou																	
Monitoring	Weather	Sea	Sampling	Water	Sampling Dept	h (m)	Current Speed	Current	Water Te	emperature (°C)		рН	Salir	nity (ppt)		aturation %)	Disso Oxyg		Turbidity	(NTU)	Suspender (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling Dept	n (m)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
				İ	Surface	1.0	0.1	317	27.2	27.2	7.8	7.8	12.4	12.5	77.1	77.1	5.7		2.1		5			
					Surface	1.0	0.1	315	27.2	21.2	7.8	1 7.0	12.6	12.5	77.0	77.1	5.7	E E	2.1	1	4			
IM10	Rainy	Moderate	20:05	8.6	Middle	4.3	0.2	314	26.8	26.8	7.8	7.8	24.3	24.3	75.2	75.2	5.3	5.5	3.5	3.6	4	4	822250	809822
IIVITO	Ixality	Wioderate	20.03	0.0	Middle	4.3	0.1	320	26.8	20.0	7.8	1 7.0	24.3	24.5	75.2	13.2	5.3		3.5	] 3.0	4	4	022230	009022
					Bottom	7.6	0.2	328	26.2	26.2	7.8	7.8	29.4	29.4	70.3	70.3	4.8	4.8	5.1		4			
					Dottom	7.6	0.2	330	26.2	20.2	7.8	7.0	29.4	23.4	70.3	70.5	4.8	4.0	5.1		4			
					Surface	1.0	0.1	301	27.1	27.1	7.8	7.8	18.4	18.4	76.5	76.6	5.5		3.1		3			
						1.0	0.1	302	27.1		7.8		18.4		76.6	. 0.0	5.5	5.4	3.2	1	3			
IM11	Rainy	Moderate	20:35	7.6	Middle	3.8	0.1	310	26.7	26.7	7.8	7.8	25.1	25.1	76.5	76.5	5.3	0	3.2	3.5	4	3	821486	810523
		, moderate	20.00	1.0	······································	3.8	0.1	302	26.7	20	7.8		25.1		76.4		5.3		3.2	] 0.0	3	ŭ	0200	0.0020
					Bottom	6.6	0.1	314	26.3	26.3	7.8	7.8	28.7	28.7	73.6	73.7	5.1	5.1	4.1	1	3			
					Bettern	6.6	0.1	307	26.3	20.0	7.8	7.0	28.7	20.1	73.7	70.7	5.1	0.1	4.2		4			
					Surface	1.0	0.0	295	27.0	27.0	7.8	7.8	20.3	20.3	74.7	74.8	5.3		3.0	1	4			
					Curiace	1.0	0.0	298	27.0	27.0	7.8	7.0	20.2	20.0	74.8	74.0	5.3	5.3	2.9	1	4			
IM12	Rainy	Moderate	20:41	7.6	Middle	3.8	0.0	311	26.8	26.8	7.8	7.8	24.7	24.7	75.7	75.7	5.3	0.0	3.3	3.5	4	4	821156	811534
		, moderate	20	1.0	······································	3.8	0.1	314	26.8	20.0	7.8		24.7		75.7		5.3		3.3	] 0.0	4	•	021.00	01.001
					Bottom	6.6	0.0	285	26.3	26.3	7.8	7.8	28.9	28.9	71.7	71.7	4.9	4.9	4.4	1	5			
						6.6	0.1	280	26.3		7.8		28.9		71.7		4.9		4.4		4			
					Surface	1.0	0.0	204	27.0	27.0	7.8	7.8	17.9	17.9	84.7	84.7	6.1		2.7	]	4			
						1.0	-	200	27.0		7.8		17.9		84.7		6.1	6.1	2.7	1	4			
SR1A	Rainy	Moderate	21:05	4.2	Middle	2.1	0.0	208	-	_	-		-		-	_	-	0	-	3.0	-	4	819982	812660
0.1.7.	'''	ous.uis	200		madio	2.1	0.1	210	-		-		-		-		-		-	] 0.0	-	•	0.0002	0.2000
					Bottom	3.2	0.0	214	26.8	26.8	7.9	7.9	22.7	22.7	84.5	84.6	6.0	6.0	3.2	1	3			
						3.2	0.1	212	26.8		7.9		22.7		84.7		6.0		3.3		4			
					Surface	1.0	0.0	234	27.1	27.1	7.8	7.8	20.3	20.3	75.6	75.7	5.4		2.8	1	3			
						1.0	0.0	236	27.1		7.8		20.3		75.7		5.4	5.4	2.8		4			
SR2	Rainy	Moderate	21:18	5.0	Middle	-	0.0	240	-	-	-		-		-	-	-		-	2.9	-	4	821458	814169
	<b> </b>					-	0.1	245	-		-		-		-		-		-		-			
					Bottom	4.0	0.0	232	26.7	26.7	7.8	7.8	25.9	25.9	76.6	76.6	5.3	5.3	3.0	1	4			
						4.0	0.1	227	26.7		7.8		25.9		76.6		5.3		3.0		4			
					Surface	1.0	0.1	3	26.9	26.9	7.8	7.8	11.6	11.6	69.0	69.0	5.2		4.5	1	4			
						1.0	0.1	7	26.9		7.8	_	11.6		69.0		5.2	5.1	4.5	1	4			
SR3	Cloudy	Rough	20:34	8.4	Middle	4.2	0.1	16	26.3	26.3	7.9	7.9	21.6	21.6	68.7	68.7	4.9		1.9	3.7	4	5	822127	807568
	, ,					4.2	0.1	11	26.3		7.9		21.6		68.7		4.9		1.9	1	4			
					Bottom	7.4	0.1	353	26.1	26.1	7.9	7.9	22.6	22.6	67.4	67.4	4.8	4.8	4.3	1	6			
						7.4	0.1	359	26.0		7.9		22.6		67.4		4.8		4.9		5			
					Surface	1.0	0.0	269	26.0	26.0	7.9	7.9	23.5	23.5	76.9	76.9	5.5		4.1	1	5			
						1.0	0.0	274	26.0		7.9		23.5		76.8		5.5	5.1	4.0	1	5			
SR4A	Cloudy	Moderate	22:10	8.4	Middle	4.2	-	267	25.4	25.4	7.9	7.9	27.8	27.8	65.9	65.9	4.6		5.5	5.3	5	7	817199	807829
	, ,					4.2	0.0	265	25.4		7.9		27.8		65.9		4.6		5.5	' '	9			
					Bottom	7.4	0.0	246	25.4	25.4	7.9	7.9	28.2	28.2	66.0	66.1	4.6	4.6	6.5	1	10			
						7.4	0.1	250	25.4		7.9		28.2		66.1		4.6		6.5		10			
					Surface	1.0	-	-	27.1	27.1	7.8	7.8	19.8	19.8	76.5	76.5	5.4		3.9	4	4			
						1.0	-	-	27.1		7.8		19.8		76.5		5.5	5.5	3.9	1	4			
SR8	Rainy	Moderate	20:46	5.0	Middle	-	-	-	-	-	-	- 1	-	-	-	-	-		-	4.0	-	4	820385	811600
	´					-	-	-	-		-		-		-		-		-	4	-			
					Bottom	4.0	-	-	26.6	26.6	7.8	7.8	26.2	26.2	76.9	76.8	5.3	5.3	4.0	1	3			
		I				4.0	-	-	26.6		7.8	1	26.2		76.6		5.3		4.0	1	4			

DA: Depth-Average

Water Quality Monitoring Results on 12 September 23 during Mid-Ebb Tide

water Qua	ity woit	oning Rest	iits oii		12 September 23	during wild-		<del>,</del>															
Monitoring	Weather	Sea	Sampling	Water	O Fig Dt	h ()	Current Speed	Current	Water Te	emperature (°C)	pН	Salir	nity (ppt)	DO S	aturation (%)	Disso Oxy		Turbidity	(NTU)	Suspende (mg/		Coordinate	Coordinate
Station	Condition	Condition	Time	Depth (m)	Sampling Dept	n (m)	(m/s)	Direction	Value	Average	Value Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	HK Grid (Northing)	HK Grid (Easting)
					0.6	1.0	0.5	224	21.2	04.0	8.0	24.0	04.4	77.8		6.0		5.5		5			
					Surface	1.0	0.5	229	21.2	21.2	8.0	24.1	24.1	77.7	77.8	6.0		6.0	1	4			
C1	Claudy	Madanata	11:07	0.4	Middle	4.2	0.5	221	21.0	21.0	8.0 8.0	24.7	24.6	75.9	75.9	5.9	6.0	8.9	7.7	4		815609	804228
CI	Cloudy	Moderate	11:07	8.4	ivildale	4.2	0.5	224	21.0	21.0	8.0	24.6	24.0	75.8	75.9	5.9		8.4	7 ′.′	4	4	613609	004220
					Bottom	7.4	0.4	198	21.0	21.0	8.0 8.0	23.6	23.5	75.7	75.8	5.9	5.9	8.9	1	4			
					BOILOITI	7.4	0.4	204	21.0	21.0	8.0	23.4	23.3	75.8	75.6	5.9	5.9	8.8		5			
					Surface	1.0	0.6	162	22.1	22.1	7.8	18.4	18.4	74.6	74.7	5.9		2.2		3			
					Surface	1.0	0.6	159	22.1	22.1	7.8	18.4	10.4	74.7	74.7	5.9	5.4	2.2		3			
C2	Cloudy	Moderate	13:01	11.5	Middle	5.8	0.6	162	21.2	21.2	7.9 7.9	28.7	28.7	65.8 65.8	65.8	4.9 4.9	5.4	6.2	6.0	3	3	825700	806953
02	Cloudy	Woderate	13.01	11.5	Wildale	5.8	0.6	164	21.2	21.2		28.7	20.7		05.0			6.3	] 0.0	4	3	023700	000933
					Bottom	10.5	0.6	162	21.0	21.0	7.9	30.6	30.6	63.0	63.1	4.7	4.7	9.2		4			
					Bottom	10.5	0.5	159	21.0	21.0	7.9	30.6	30.0	63.1	00.1	4.7	7.7	9.7		3			
					Surface	1.0	0.3	78	26.8	26.8	7.8	25.7	25.6	76.8	76.8	5.3		2.0		4			
					Curiace	1.0	0.3	78	26.8	20.0	7.8	25.6	20.0	76.8	7 0.0	5.3	5.2	2.0		5			
СЗ	Fine	Moderate	10:15	9.8	Middle	4.9	0.3	90	26.4	26.4	7.8 7.8	27.9	27.9	72.3 72.2	72.3	5.0 5.0	0.2	2.7	2.6	4	4	822107	817814
00	' ""	Moderate	10.10	0.0	Middle	4.9	0.4	86	26.4	20.4		27.9	27.0		72.0			2.6		4	-	022101	017014
					Bottom	8.8	0.4	56	26.2	26.2	7.8	29.9	29.9	70.8	70.9	4.8	4.9	3.1		3			
						8.8	0.3	62	26.2		7.8	30.0		71.0		4.9		3.2		4			
					Surface	1.0	0.3	193	21.7	21.7	8.0 8.0	25.5	25.5	78.6	78.6	6.0		3.4	1	3			
						1.0	0.3	189	21.7		8.0	25.5		78.5		6.0	5.9	3.4	_	3			
IM1	Cloudy	Moderate	11:36	6.8	Middle	3.4	0.3	180	21.1	21.1	8.0	26.6	26.6	75.1 75.0	75.1	5.7		4.2	6.3	4	4	818361	806465
						3.4	0.3	182	21.1		8.0	26.6				5.7		4.4	-	4			
					Bottom	5.8	0.3	188	21.0	21.0	8.0 8.0	26.6	26.6	73.7	73.7	5.6	5.6	11.7	-	3			
						5.8 1.0	0.3	189	21.0		8.0	26.5		73.7		5.6		11.0		4			
					Surface	1.0	0.4	211	21.0 21.0	21.0	8.0	30.6	30.6	75.5	75.5	5.6		7.5	-	3			
						3.4	0.4	211			8.0			75.5		5.6 5.6	5.6	7.5 9.2	-	3			
IM2	Cloudy	Moderate	11:42	6.8	Middle	3.4	0.4	217	20.9	20.9	8.0	30.9	30.9	75.5 75.5	75.5	5.6		9.2	9.2	3 4	4	819193	806217
						5.8	0.5	185	20.9			31.1		75.4		5.6		10.9	-	4			
					Bottom	5.8	0.4	184	20.9	20.9	8.0 8.0	31.1	31.1	75.5	75.5	5.6	5.6	10.9	+	4			
						1.0	0.3	210	22.0		7.0	22.2		82.9		6.4		2.0		3			
					Surface	1.0	0.2	213	22.0	22.0	7.9 7.9	22.2	22.2	82.8	82.9	6.4		2.0	+	2			
						4.3	0.2	211	21.2		7.0	27.1				5.6	6.0	4.5	1	4			
IM7	Cloudy	Moderate	12:20	8.6	Middle	4.3	0.2	203	21.2	21.2	7.9 7.9	27.2	27.1	73.2 73.3	73.3	5.6		4.7	4.0	3	3	821372	806829
						7.6	0.2	200	21.0		8.0	30.0		73.5		5.5		5.6	1	3			
					Bottom	7.6	0.2	198	21.1	21.1	8.0	30.0	30.0	73.2	73.4	5.5	5.5	5.4	1	4			
A: Donth Avo				<u> </u>		1.0	U.2	100				1 00.0		1 10.2	<u> </u>	0.0		U.7	1				

DA: Depth-Averaged

Water Quality Monitoring Results on 12 September 23 during Mid-Ebb Tide

Water Qua	nty wont	oring Resu	iits on		12 September 23	auring Mia-		е																
Monitoring	Weather	Sea	Sampling	Water	Sampling Dep	th (m)	Current Speed	Current	Water Te	emperature (°C)		pН	Salin	ity (ppt)		aturation (%)	Disso Oxyg		Turbidity	(NTU)	Suspende (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Запріпід Бер	ui (iii)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.4	123	27.2	27.2	7.8	7.8	22.5	22.5	80.2	80.2	5.6		1.1		3			
						1.0	0.4	119	27.2		7.8		22.5		80.1		5.6	5.6	1.1	1	3			
IM10	Cloudy	Moderate	11:56	8.8	Middle	4.4	0.4	111	26.9	26.9	7.9	7.9	23.9	23.9	78.7	78.8	5.5		1.4	1.4	3	3	822224	809860
	'					4.4	0.4	110	26.9		7.9		23.9		78.8		5.5		1.5	1	3	-		
					Bottom	7.8	0.4	145	26.9	26.9	7.8	7.8	23.9	23.9	81.2	81.3	5.7	5.7	1.6	1	4			
						7.8	0.5	139	26.9		7.8		23.9		81.3		5.7		1.6		4			
					Surface	1.0	0.4	85	27.4	27.4	7.9	7.9	21.8	21.8	84.6	84.6	5.9		4.0	4	4			
						1.0	0.5	81	27.3		7.9		21.8		84.5		5.9	5.5	3.9	4	3			
IM11	Cloudy	Moderate	11:50	9.4	Middle	4.7	0.4	118	26.5	26.5	7.9	7.9	26.8	26.8	73.5	73.6	5.1		4.4	4.5	3	3	821478	810543
	1					4.7	0.5	111	26.5		7.9		26.9		73.6		5.1		4.4	4	3			
					Bottom	8.4	0.4	119	26.6	26.6	7.9	7.9	26.9	26.9	74.4	74.5	5.1	5.1	5.0	4	3			
						8.4	0.4	115	26.6		7.9		26.8		74.5		5.1		5.1	<u> </u>	2			
					Surface	1.0	0.5	116	27.3	27.3	7.9	7.9	22.1	22.1	87.6	87.6	6.1		1.7	4	3			
						1.0	0.5	120	27.2		7.9		22.1		87.5		6.1	6.0	1.7	4	2			
IM12	Cloudy	Moderate	11:44	8.8	Middle	4.4	0.5	108	26.9	26.9	7.9	7.9	22.5	22.5	82.5	82.5	5.8		3.7	3.2	4	3	821183	811498
	1					4.4	0.5	103	26.8		7.9		22.5		82.4		5.8		3.7	4	3			
					Bottom	7.8	0.5	85	26.8	26.9	7.9	7.9	26.6	26.6	74.8	75.0	5.2	5.2	4.1	1	3			
						7.8	0.5	88	26.9		7.9		26.6		75.1		5.2		4.1	<u> </u>	4			
					Surface	1.0	0.0	86	27.2	27.2	7.9	7.9	23.7	23.7	80.9	80.9	5.6		2.2	1	2			
						1.0	0.1	86	27.2		7.9		23.7		80.9		5.6	5.6	2.2	1	3			
SR1A	Fine	Moderate	11:03	4.0	Middle	2.0	0.0	72	-	-	-	_	-	-	-	-	-		-	2.9	-	3	819980	812663
						2.0	0.1	74	-		-		-		-		-		-	4	-			
					Bottom	3.0	0.0	73	27.0	27.1	7.9	7.9	24.2	24.2	81.7	81.8	5.7	5.7	3.7	1	2			
						3.0	0.0	69	27.1		7.9		24.2		81.8		5.7		3.7		4			
					Surface	1.0	0.5	44	27.1	27.1	7.9	7.9	23.3	23.3	76.1	76.1	5.3		2.0	4	3			
						1.0	0.4	39	27.1		7.9		23.3		76.0		5.3	5.3	2.1	4	3			
SR2	Fine	Moderate	10:46	5.0	Middle	-	0.5	49	-	-	-	_	-	-	-	_	-		-	2.4	-	3	821453	814153
							0.5	52	-		-		-				-		-	4	-			
					Bottom	4.0	0.4	31	26.7	26.7	7.9	7.9	24.8	24.8	72.1	72.1	5.0	5.0	2.7	4	3			
						4.0	0.4	26	26.7		7.9		24.8		72.1		5.0		2.7		2			
					Surface	1.0	0.4	173	22.0	22.0	7.8	7.8	21.7	21.7	81.5	81.5	6.3		2.7	4	3			
						1.0	0.5	171	21.9		7.8		21.7		81.4		6.3	6.0	2.8	4	2			
SR3	Cloudy	Moderate	12:26	8.9	Middle	4.5	0.5	184	21.2	21.2	7.9	7.9	25.8	25.8	73.9	73.9	5.7		6.1	5.4	3	2	822138	807562
						4.5	0.5	189	21.2		7.9		25.9		73.9		5.7		6.3	4	2			
					Bottom	7.9	0.5	142	21.0	21.1	7.9	7.9	30.0	30.0	74.3	74.4	5.6	5.6	7.3	4	2			
						7.9	0.5	140	21.1				30.0		74.4		5.6		7.0	<u> </u>	2			
					Surface	1.0	0.0	98	21.4	21.4	8.0	8.0	24.6	24.6	78.8	78.7	6.0		2.7	4	5			
						1.0	0.1	92	21.4		8.0		24.6		78.5		6.0	5.9	2.9	4	4			
SR4A	Cloudy	Moderate	10:35	9.4	Middle	4.7	-	119	21.1	21.1	8.0	8.0	27.0	27.1	75.2	75.1	5.7		6.3	6.2	4	4	817190	807814
						4.7	0.0	122	21.1		8.0		27.1		75.0		5.7		6.5	4	4			
					Bottom	8.4	0.0	100	21.0	21.0	8.0	8.0	27.9	27.9	74.5	74.6	5.6	5.6	9.4	4	3			
			<u> </u>			8.4	0.0	107	21.0		8.0		27.9		74.6		5.6		9.5		3			<u> </u>
					Surface	1.0	-	-	27.2	27.2	7.9	7.9	23.0	23.0	82.8	82.9	5.8		2.1	-	<2			
						1.0	-	-	27.2		7.9		23.0		83.0		5.8	5.8	2.1	-	2			
SR8	Cloudy	Moderate	11:40	4.4	Middle	-	-	-	-	-	-	-	-	-	-	-	-		-	2.6	-	2	820387	811602
	'					-	-	-	- 07.4				-		-		-		-	-	-			
					Bottom	3.4	-	-	27.4	27.5	7.9	7.9	23.0	23.0	84.0	84.2	5.8	5.9	3.2	1	2			
	1					3.4	-	-	27.5		7.9		23.0		84.3		5.9		3.2		3			

DA: Depth-Averaged

Water Quality Monitoring Results on 12 September 23 during Mid-Flood Tide

water Qua	ity wont	oning Resu	แร บท		12 September 23	auring wia-	rioou ii	ue																
	Weather	Sea	Sampling	Water			Current		Water Te	emperature (°C)	pН		Salinit	ty (ppt)		aturation	Disso		Turbidity	(NTII)	Suspende		Coordinate	Coordinate
Monitoring	VVCatrici	Oca	Camping	Water	Sampling Dept	h (m)	Speed	Current	vvalor 10	imperature ( c)	P		- Cumin	ty (PPt)	(	%)	Оху	gen	Turblaity	(1110)	(mg	(L)	HK Grid	HK Grid
Station	Condition	Condition	Time	Depth (m)		()	(m/s)	Direction	Value	Average	Value Ave	age V	√alue	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
						1.0	0.3	26	21.2		8.0	1 2	27.7		78.8		5.9		4.3		3			
					Surface	1.0	0.3	19	21.2	21.2	8.0		27.7	27.7	78.6	78.7	5.9		4.3	t	2			
						4.3	0.3	50	21.1		8.0		30.0		76.0		5.7	5.8	5.9	t	4			
C1	Cloudy	Moderate	18:50	8.5	Middle	4.3	0.3	54	21.1	21.1	8.0		30.0	30.0	75.8	75.9	5.7		6.3	6.6	3	3	815624	804234
						7.5	0.3	24	21.0		8.0	- 1	30.4		74.8		5.6		9.2	t	4			
					Bottom	7.5	0.3	29	21.0	21.0	8.0	0   3	30.5	30.4	74.8	74.8	5.6	5.6	9.4	1	3			
					Ourford	1.0	0.1	169	21.9	00.0	7.8	, 1	19.8	40.0	72.0	70.0	5.6		2.2		3			
					Surface	1.0	0.1	174	22.0	22.0	7.8	8	19.8 19.9	19.8	71.9	72.0	5.6	5.2	2.3	1	3			
C2	Cloudy	Moderate	17:11	11.4	Middle	5.7	0.2	186	21.1	21.1	8.0	0 2	29.1	29.1	64.5	64.5	4.8	5.2	5.2	5.7	4	3	825681	806948
C2	Cloudy	Moderate	17.11	11.4	ivildule	5.7	0.2	188	21.1	21.1	8.0	٠ <u>- 2</u>	29.1	29.1	64.5	04.5	4.8	i i	5.1	3.7	3	3	023001	000946
					Bottom	10.4	0.2	200	21.0	21.0	8.0		30.5	30.5	62.6	62.6	4.7	4.7	9.7		3			
					Dottom	10.4	0.2	204	21.0	21.0	8.0	٠ [3	30.5	30.3	62.6	02.0	4.7	4.7	9.4		3			
					Surface	1.0	0.5	256	26.3	26.3	7.9 7.	9 2	27.0 27.1	27.0	74.3	72.5	5.2		3.0		5			
					Curiuoc	1.0	0.5	248	26.2	20.0	7.9			21.0	70.7	72.0	4.9	4.9	2.9		5			
СЗ	Cloudy	Moderate	18:44	10.2	Middle	5.1	0.4	244	26.1	26.1	7.9 7.	9 3	30.6	30.6	70.8	70.9	4.8	7.0	3.3	3.7	3	4	822111	817823
						5.1	0.4	249	26.1		7.9	] 3	30.6		70.9		4.8		3.2		4			
					Bottom	9.2	0.4	272	26.1	26.2	7.9 7.	9 📑	30.7	30.7	71.6	71.7	4.9	4.9	4.9	1	4			
						9.2	0.4	276	26.2		7.9				71.8		4.9		4.9		4			
					Surface	1.0	0.2	15	21.7	21.7	8.0	0   2	26.6 26.7	26.6	81.3	81.4	6.1		3.0	1	3			
						1.0 3.3	0.2	14 30	21.7		8.0				81.4		6.1	6.0	3.2	1	4			
IM1	Cloudy	Moderate	18:23	6.5	Middle	3.3	0.2	27	20.9	20.9	8.0		31.3	31.4	77.5 77.6	77.6	5.8 5.8		8.3 8.5	6.6	3	4	818363	806465
						5.5	0.1	40	20.9		8.0	- 1	31.5		78.2		5.8		8.3	-	3			
					Bottom	5.5	0.2	44	21.0	21.0	8.0	0	31.5	31.5	78.3	78.3	5.8	5.8	8.4	1	4			
						1.0	0.1	16	21.4		80				80.4		6.1		5.8		3			
					Surface	1.0	0.1	11	21.4	21.4	8.0	0	26.9 26.9	26.9	80.4	80.4	6.1		6.1	†	4			
						3.5	0.1	21	21.0		8.0	- 1	30.3		75.4		5.6	5.9	9.9		3			
IM2	Cloudy	Moderate	18:18	7.0	Middle	3.5	0.0	23	21.0	21.0	8.0		30.3	30.3	75.4	75.4	5.6	1 1	9.9	8.5	3	4	819184	806213
					5	6.0	0.2	357	20.9		7.0			24.0	75.2	75.0	5.6		9.7	1	4			
					Bottom	6.0	0.2	353	20.9	20.9	7.9 7.	9   3	31.6 31.6	31.6	75.4	75.3	5.6	5.6	9.9	1	4			
					Surface	1.0	0.1	275	22.1	22.1	7.9 7.	0 2	21.1	21.1	80.3	80.4	6.2		1.5		4			
					Surface	1.0	0.1	280	22.1	22.1	7.9	2	21.1	21.1	80.4	00.4	6.2	6.0	1.5	]	4			
IM7	Cloudy	Moderate	17:46	8.4	Middle	4.2	0.1	272	21.6	21.6	7.9	a 2	24.3	24.3	75.5	75.5	5.8	] 0.0	2.5	3.8	3	4	821371	806841
11017	Oloudy	Moderate	17.40	0.4	Middle	4.2	0.1	275	21.6	21.0	7.9	_   2	24.3	24.0	75.4	10.0	5.8		2.6	] 3.0	4	7	021011	000071
					Bottom	7.4	0.1	263	21.1	21.1	8.0	0 2	29.0 29.0	29.0	73.4	73.5	5.5	5.5	7.5	1	3			
					Dottom	7.4	0.1	256	21.1	21.1	8.0	Ŭ   2	29.0	20.0	73.5	70.0	5.5	0.0	7.2		4			

DA: Depth-Averaged

Water Quality Monitoring Results on 12 September 23 during Mid-Flood Tide

Trater Qua.	ity 11101111	toring Kest			12 September 23	auring ima	1 100a 1	<u> </u>																
Monitoring	Weather	Sea	Sampling	Water	Committee	-4h ()	Current Speed	Current	Water Te	emperature (°C)	р	Н	Salini	ity (ppt)		aturation %)	Disso Oxy		Turbidity	(NTU)	Suspende (mg/		Coordinate	
Station	Condition	Condition	Time	Depth (m)	Sampling Dep	otn (m)	(m/s)	Direction	Value	Average	Value	Average	Value	Average		Average	Value	DA	Value	DA	Value	DA	HK Grid (Northing)	HK Grid (Easting)
			İ		Surface	1.0	0.2	251	27.2	27.2	7.9	7.9	21.8	21.8	79.5	79.4	5.6		1.8	i	3			İ
					Surface	1.0	0.2	251	27.2	21.2	7.9	7.9	21.8	21.6	79.2	79.4	5.6	5.5	1.8	1	4			
IM10	Cloudy	Moderate	17:10	8.4	Middle	4.2	0.2	263	26.8	26.8	7.9	7.9	24.1	24.1	75.7	75.6	5.3	5.5	2.4	2.6	3	4	822251	809823
IIVITO	Cloudy	Woderate	17.10	0.4	Middle	4.2	0.2	270	26.8	20.0	7.9	7.5	24.2	24.1	75.4	75.0	5.3		2.4	2.0	4	7	022231	003023
					Bottom	7.4	0.2	256	26.7	26.7	7.9	7.9	25.2	25.2	74.3	74.3	5.2	5.2	3.5	1	4			
					20110111	7.4	0.2	261	26.7	20.1	7.9		25.2		74.3		5.2		3.5		4			
					Surface	1.0	0.3	283	27.9	27.9	7.8	7.8	18.8	18.8	84.3	84.3	6.0		2.0	1	4			
						1.0	0.4	289	27.9		7.8		18.8		84.3		6.0	5.9	2.1	1	3			
IM11	Cloudy	Moderate	17:40	8.0	Middle	4.0	0.4	292	27.1	27.1	7.9	7.9	22.8	22.8	83.1	83.1	5.8		2.3	2.8	3	3	821508	810546
	•					4.0	0.4	296	27.1		7.9		22.8		83.0		5.8		2.3	4	4			
					Bottom	7.0	0.4	264	26.6 26.7	26.7	7.9	7.9	26.9 26.9	26.9	77.3 77.6	77.5	5.3 5.4	5.4	4.1	-	2			
		<u> </u>	1			7.0	0.3	268			_						_		4.2	<u> </u>	3			
					Surface	1.0	0.3	286 288	27.7	27.7	7.9	7.9	21.4	21.4	86.9 86.9	86.9	6.1		3.0	-	3			
						3.9	0.4	289	27.1				22.7		_		5.8	6.0	-	1	2			
IM12	Cloudy	Moderate	17:46	7.8	Middle	3.9	0.3	283	27.1	27.1	7.9	7.9	22.7	22.7	82.5 82.5	82.5	5.8		4.1	4.1	2	3	821149	811524
						6.8	0.4	302	26.5		7.9		26.3		73.0		5.1		5.0	1	4			
					Bottom	6.8	0.3	300	26.5	26.5	7.9	7.9	26.3	26.3	73.0	73.0	5.1	5.1	5.1	1	3			
		1		1		1.0	0.1	177	27.1		7.8		23.8		80.5		5.6		2.5	1	4			
					Surface	1.0	0.1	177	27.1	27.1	7.8	7.8	23.9	23.9	80.4	80.5	5.6		2.4	1	4			
						2.2	0.0	191	-		-		-		-		-	5.6	-	1	-			
SR1A	Cloudy	Moderate	18:10	4.4	Middle	2.2	0.1	196	-	-	-	-	_	-	_	-	_		_	2.7		4	819975	812657
						3.4	0.0	200	27.0		7.9		24.4		81.1		5.6		3.0	1	3			
					Bottom	3.4	0.0	195	27.0	27.0	7.9	7.9	24.4	24.4	81.4	81.3	5.7	5.7	3.0	1	4			
				İ	0	1.0	0.0	249	27.2	07.0	7.9	7.0	22.7	00.7	86.1	00.4	6.0		2.0		4			
					Surface	1.0	0.0	255	27.1	27.2	7.9	7.9	22.8	22.7	86.6	86.4	6.1	0.4	2.0	1	3			
SR2	Cloudy	Moderate	18:23	4.6	Middle	-	0.1	227	-		- 1		-		-		-	6.1	-	2.1	-	4	821476	814142
SK2	Cloudy	Moderate	10:23	4.0	ivildale	-	0.0	227	-	-	- 1	-	-	-	-	-	-		-	2.1	-	4	021470	014142
					Bottom	3.6	0.1	220	27.0	27.0	7.9	7.9	23.2	23.2	85.0	85.2	6.0	6.0	2.3	]	4			
					Dottom	3.6	0.1	216	27.0	27.0	7.9	1.5	23.2	23.2	85.4	03.2	6.0	0.0	2.3		3			
					Surface	1.0	0.0	272	22.4	22.4	7.8	7.8	19.3	19.3	82.2	82.3	6.4		2.4		4			
					Ouriacc	1.0	0.0	269	22.4	22.4	7.8	7.0	19.3	13.5	82.3	02.0	6.4	6.0	2.4		3			
SR3	Cloudy	Moderate	17:40	8.4	Middle	4.2	0.0	290	21.6	21.6	7.9	7.9	24.8	24.8	73.5	73.5	5.6	0.0	3.5	3.3	2	3	822130	807564
Orto	Oloudy	Wioderate	17.40	0.4	Mildale	4.2	0.1	294	21.6	21.0	7.9	1.0	24.8	24.0	73.5	70.0	5.6		3.5	0.0	2	Ü	022100	007004
					Bottom	7.4	0.0	257	21.4	21.4	7.9	7.9	25.6	25.6	73.5	73.5	5.6	5.6	4.2	1	3			
					20110111	7.4	0.0	260	21.4		7.9		25.6	20.0	73.5	. 0.0	5.6	0.0	4.2	<u> </u>	2			
					Surface	1.0	0.0	226	22.3	22.3	8.0	8.0	24.0	24.0	85.6	85.7	6.5		3.9	1	3			
						1.0	0.1	231	22.3		8.0		24.0		85.7		6.5	6.1	3.8	1	4			
SR4A	Cloudy	Moderate	19:12	8.5	Middle	4.3	0.0	236	21.1	21.1	8.0	8.0	28.5	28.6	73.8	73.8	5.6		9.2	8.4	4	5	817170	807830
	•					4.3	0.1	234	21.1		8.0		28.7		73.7		5.6		9.6	4	5			
					Bottom	7.5	0.0	213	21.1	21.1	8.0	8.0	29.4	29.4	74.3	74.4	5.6	5.6	11.9	4	5			
			1	1		7.5	0.1	205	21.1		8.0		29.4		74.4		5.6		11.9		6			
					Surface	1.0	-	-	27.5 27.4	27.5	7.9	7.9	22.7	22.8	85.6	85.5	6.0		3.0	-	3			
						1.0	-	-	27.4		7.9		22.9		85.4		6.0	6.0	2.9	1	3 -			
SR8	Cloudy	Moderate	17:51	5.8	Middle	-			-	-		-	-	-	-	-	-		-	3.5		3	820381	811614
						4.8	-	-	27.1		7.8		24.2		76.8		5.3		4.1	1	3			
					Bottom	4.8	-	-	27.1	27.1	7.9	7.8	24.2	24.2	77.5	77.2	5.4	5.4	4.1	1	3			
DA: Donth Aver						4.0		_	21.1		1.9		24.2		11.3		0.4		4.1		J			

DA: Depth-Averaged

Water Quality Monitoring Results on

14 September 23 during Mid-Ebb Tide

Moderate   Moderate	water Qua	ity Mont	oring Resu	its oii		14 September 23	auring wia-		)																
Salation   Condition   Condition   Time   Depth (m)   Depth (m)   Depth (m)   Condition		Weather	Sea	Sampling	Water			1	0	Water Te	emperature (°C)	pl	Н	Salir	nity (ppt)	DO S				Turbidity	/(NTU)			Coordinate	Coordinate
Condition   Cond				' "		Sampling Dept	h (m)	Speed			1 (-/	l i		-	1,	-	(%)	Oxy	gen		<del>` ´</del>	(mg	L)	HK Grid	HK Grid
C1 Cloudy Moderate 12.22 8.5 Middle 4.3 0.4 220 286 8.8 8.0 8.0 29.5 29.5 76.6 76.5 52 5.6 8.1 73 2.2 2.815813 80427	Station	Condition	Condition	Time	Depth (m)			(m/s)	Direction	Value	Average	Value /	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
C1 Cloudy Moderate 12.22 8.5   Middle   4.3   0.4   220   26.6   26.8   8.0   80   25.6   25.5   76.5   5.2   5.6   8.0   80.2   25.5   8.0   8.						Cunface	1.0	0.5	208	26.9	26.0	8.0	0.0	25.6	25.6	85.0	05.0	5.9	i	2.6		2			İ
C1 Cloudy Moderate 12:22 8.5 Middle 4.3 0.4 221 28.6 28.6 8.0 8.0 29.5 29.5 76.5 76.5 5.2 8.0 73 2 2 815513 8042:  Bottom 7.5 0.4 221 28.6 28.6 8.0 8.0 29.5 29.5 76.5 76.5 5.2 8.1 1 2 2 815513 8042:  C2 Cloudy Moderate 14:00 11.6 Middle 5.8 0.8 161 28.9 28.9 7.9 7.9 28.6 28.6 78.7 78.7 5.2 5.2 11.1 2 2 815513 8042:  C3 Rainy Moderate 14:00 11.9 8 Middle 4.9 0.3 74 27.7 28.8 8.0 8.0 22.4 22.5 71.2 71.5 48.8 17.2 2.7 2.5 3 3 822090 81786.  C3 Rainy Moderate 12:47 6.8 Middle 4.9 0.3 74 27.7 27.0 27.0 8.0 8.0 22.4 22.5 71.2 71.5 48.8 17.2 2.7 2.5 3 3 822090 81786.  C4 Cloudy Moderate 12:47 6.8 Middle 4.9 0.3 75 29.6 28.6 8.0 8.0 25.5 28.0 9.0 29.5 79.0 79.0 79.0 79.0 79.0 79.0 79.0 79.0						Surface	1.0	0.5	207	26.9	20.9	8.0	6.0	25.6	25.6	84.9	05.0			2.6	1	3			
Moderate   14.00   11.6   Moderate   14.00   Mo	C1	Cloudy	Madarata	12:22	0.5	Middle	4.3	0.4	220	26.6	26.6	8.0	0.0	29.5	20.5	76.5	76.5	5.2	5.6	8.0	7.2	2	2	015612	004224
County   Moderate   14-00   11.6     Surface   10   0.6   172   270   270   8.0   8.0   24.5   24.5   85.6   8.0   6.0   2.7   7.0   7.0   8.0   2.7   7.0   7.0   8.0   2.7   7.0   7.0   8.0   2.7   7.0	L C1	Cloudy	Moderate	12.22	6.5	ivildule	4.3	0.4	221	26.6	20.0	8.0	0.0	29.5	29.5	76.5	70.5	5.2		8.1	1 7.3	2	2	013013	004234
C2 Cloudy Moderate 14:00 11:6						Rottom		0.4			26.6	8.0	8.0		20.6	76.7	76.7	5.2	5.2	11.1	1				
C2 Cloudy Moderate 14.00 11.6 Middle 5.8 0.6 1160 26.9 26.9 7.9 7.9 26.6 26.0 7.0 7.0 7.0 26.6 26.0 7.0 7.0 7.0 26.6 26.0 7.0 7.0 7.0 26.6 26.0 7.0 7.0 7.0 26.6 26.0 7.0 7.0 7.0 26.0 26.0 7.0 7.0 7.0 26.0 26.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7						Bottom	7.5	0.5	223	26.6	20.0	8.0	0.0	29.6	29.0	76.7	70.7	5.2	3.2	11.4		2			
C2 Cloudy Moderate 14:00 11.6						Surface		0.6			27.0		8.0		24.5	85.6	85.6								
C2 Cloudy Moderate 14:00 11.6   Middle   5.8   0.6   100   26.9   26.9   7.9   7.9   26.6   26.6   76.1   76.1   5.2   5.2   5.2   10.4   5.8   0.6   6.6   4.4   5.8   5.8   0.5   101   26.9   26.8   7.9   7.9   27.3   27.3   76.1   76.1   5.2   5.2   10.4   4.4   5.8   5.8   10.6   10.6   0.5   15.4   26.8   26.8   7.9   7.9   27.3   27.3   76.1   76.1   5.2   5.2   10.3   3   3   3   3   3   3   3   3   3						Ouriace					27.0		0.0		24.0		00.0	5.9	56						
Bottom   B	C2	Cloudy	Moderate	14:00	11.6	Middle					26.9	7.9	7 9	26.6	26.6	76.1	76.1	5.2	0.0		60		6	825666	806937
C3 Rainy Moderate 11:11 9.8 Middle 1.0 0.3 72 278 27.8 8.0 8.0 22.5 2.5 71.7 71.5 4.9 4.8 1.7 2.7 71.5 4.9 4.8 1.7 2.7 71.5 4.9 4.8 1.7 2.7 71.5 4.9 4.8 1.7 2.7 2.7 1.7 1.7 1.5 4.9 4.8 1.7 2.7 2.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1	02	Oloudy	Moderate	14.00	11.0	Wilduic					20.0		7.0		20.0		70.1	5.2			0.0		o	020000	000007
C3 Rainy Moderate 11:11 9.8 Middle 1.0 0.3 72 278 27.8 8.0 8.0 22.5 2.5 71.7 71.5 4.9 4.8 1.7 2.7 71.5 4.9 4.8 1.7 2.7 71.5 4.9 4.8 1.7 2.7 71.5 4.9 4.8 1.7 2.7 2.7 1.7 1.7 1.5 4.9 4.8 1.7 2.7 2.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1						Bottom					26.8		7.9		27.3	76.0	76.1	5.2	52						
C3   Rainy   Moderate   11:11   9.8   Middle   4.9   0.3   74   277   27.8   8.0   8.0   22.5   25.5   69.9   69.9   47.   4.8   4.8   4.8   27   2.8   3.0   2.5   2.5   69.9   69.9   4.7   4.8						5000000					20.0				21.0				0.2		<del></del>				
Rainy Moderate   11:11   9.8   Middle   4.9   0.3   75   27.1   27.1   8.0   8.0   25.5   25.5   69.8   69.9   4.7   4.7   4.5   2.7   2.5   3   3   822090   81780   81						Surface					27.8		8.0		22.5	71.7	71.5				1				
Rany   Moderate   11:11   9.8   Middle   4.9   0.3   67   27.0   27.1   8.0   8.0   25.6   25.5   69.8   69.9   47   2.8   2.5   2   3   82.990   81/6t																			4.8		1				
Bottom   B	C3	Rainv	Moderate	11:11	9.8	Middle					27.1	8.0	8.0	25.5	25.5	69.9	69.9				2.5	3	3	822090	817803
Mide   Note																					1				
Moderate   12:47   6.8   Surface   1.0   0.3   193   26.8   26.8   8.0   8.0   27.9   28.0   79.4   79.4   5.4   79.4   5.4   5.4   79.4   5.4   79.4   5.4   79.4   5.4   79.4   5.4   79.4   79.4   5.4   79.4   79.4   5.4   79.4   79.4   5.4   79.4   5.4   79.4   79.4   5.4   79.						Bottom					26.9		8.0		26.1	68.2	68.2		4.6		1				
Moderate   12:47   6.8   Middle   10:47   Middle   Middle   Middle   Middle   Middle   Middle   Middle   Middle   Middle   Middle																=					₩			<u> </u>	
Middle   3.4   0.3   185   26.6   26.6   8.0   8.0   29.6   79.2   79.2   5.4   5.4   14.0   13.2   10.7   5   5   818368   80647						Surface					26.8		8.0		28.0	79.4	79.4				4				
Bottom   Solid																			5.4		4				
Bottom 5.8 0.4 202 26.6 8.0 8.0 8.0 29.8 29.8 79.4 79.5 5.4 5.4 10.6 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	IM1	Cloudy	Moderate	12:47	6.8	Middle					26.6		8.0		29.6	79.2	79.2	5.4			10.7		5	818368	806472
Moderate   12:52   7.2     Surface   1.0   0.4   206   26.6   26.7   26.7   8.0   8.0   29.8   29.8   79.5   79.5   5.4   5.4   10.4   4   4   4   4   4   4   4   4   4																					+				
Surface   1.0   0.4   206   26.7   26.7   8.0   8.0   28.4   28.5   77.6   77.6   5.3   5.5   5.7   5.7   5.7   5.3   3   3   3   3   3   3   3   3   3						Bottom					26.6		8.0		29.8	79.4	79.5		5.4		1	$\overline{}$			
Moderate   12:52   7.2   Middle   13:52   7.2   Middle   13:29   8.2   Middle   13:29   8.2   Middle   14:10   15:20   1.0   0.4   203   26:7   26.7   8.0   8.0   28.5   28.5   77.6   77.6   77.6   77.6   5.3   5.4   5.7   9.5   8.6   3.0   3.6   3.6   0.4   209   26:6   8.0   8.0   29.8   29.8   78.8   78.8   78.8   5.4   5.4   9.5   9.8   3.0																					-				
IM2 Cloudy Moderate 12:52 7.2 Middle 3.6 0.4 209 26.6 8.0 8.0 29.8 29.8 78.8 78.8 5.4 9.5 9.8 8.6 3 819197 80625 80.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.						Surface					26.7		8.0		28.5	77.6	77.6		l 1		†				
Middle   13:29   8.2   Middle   13:29   8.2   Middle   13:29   8.2   Middle   13:29   8.2   Middle   13:29   8.2   Middle   13:29   8.2   Middle   14:1   10:3   20:6																		5.4	5.4		1				
Bottom 6.2 0.4 214 26.5 26.5 8.0 8.0 30.0 30.0 30.0 79.9 80.0 5.4 5.4 10.6 2 2	IM2	Cloudy	Moderate	12:52	7.2	Middle					26.6		8.0	29.8	29.8	78.8	78.8	5.4			8.6	3	3	819197	806255
IM7 Cloudy Moderate 13:29 8.2 Surface 1.0 0.3 212 27.0 27.0 7.9 7.9 25.7 25.7 76.4 76.4 5.3 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3						_															1				
IM7 Cloudy Moderate 13:29 8.2 Surface 1.0 0.3 212 27.0 27.0 7.9 7.9 25.7 25.7 76.4 76.4 5.3 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3						Bottom					26.5	8.0	8.0	30.0	30.0	80.0	80.0	5.4	5.4		1				
IM7 Cloudy Moderate 13:29 8.2 Surface 1.0 0.4 211 27.0 7.9 7.9 25.7 76.4 76.4 76.4 5.3 3.0 10.0 10.0 10.0 10.0 10.0 10.0 10.						0.1					07.0			_	05.7		70.4								
IM7 Cloudy Moderate 13:29 8.2 Middle 4.1 0.2 203 26.8 26.8 8.0 8.0 27.2 27.2 76.1 76.1 5.2 5.3 10.0 8.6 4 3 821372 80685						Surface					27.0		7.9		25.7	76.4	/6.4	5.3	ا ہے ا		1				
7.2 0.3 190 26.7 007 8.0 00 28.3 000 76.2 700 5.2 70 12.7 2	1847	Classed	Madaust	12.20	0.0	Middle					26.0		0.0				70.4	5.2	5.3		1	$\overline{}$	2	004070	000050
7.2 0.3 190 26.7 007 8.0 00 28.3 000 76.2 700 5.2 70 12.7 2	IIM7	Cloudy	woderate	13:29	8.2	iviiddle	4.1	0.3	206		26.8		8.0		27.2	76.1	/6.1	5.2			8.6	3	3	821372	806850
DOLLOTTI 72 03 190 267 20.7 80 0.0 283 20.3 763 70.3 52 5.2 13.0 3						Pottom		0.3	190		26.7		9.0		20.2	76.2	76.2	5.2	E 2	12.7	1	2			
						BOILOTTI	7.2	0.3	190	26.7	20.7	8.0	0.0	28.3	20.3	76.3	10.3	5.2	5.2	13.0	1	3			

DA: Depth-Averaged

Water Quality Monitoring Results on

14 September 23 during Mid-Ebb Tide

water Qua		orning recou			14 September 23	auring mia	LDD IIG	<u></u>																
Monitoring	Weather	Sea	Sampling	Water	0 " 5		Current Speed	Current	Water Te	emperature (°C)		рН	Salir	nity (ppt)		aturation (%)	Disso Oxy		Turbidity	(NTU)	Suspende (mg/		Coordinate	Coordinate
Station	Condition	Condition	Time	Depth (m)	Sampling Dept	in (m)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	HK Grid (Northing)	HK Grid (Easting)
					0	1.0	0.4	103	27.6	07.0	7.9	7.0	23.3	00.0	71.2	74.0	4.8		1.1		4			
					Surface	1.0	0.4	98	27.6	27.6	7.9	7.9	23.4	23.3	71.1	71.2	4.8	4.0	1.1	1	3			
IMAGO	Dainu	Madausta	10.07	0.0	Middle	4.4	0.4	104	27.5	27.5	7.9	7.0	23.6	22.6	71.1	74.0	4.8	4.8	1.4	1.6	4	2	000000	900050
IM10	Rainy	Moderate	12:07	8.8	Middle	4.4	0.4	97	27.5	21.5	7.9	7.9	23.6	23.6	71.3	71.2	4.8		1.4	1.0	3	3	822228	809858
					Bottom	7.8	0.4	99	27.5	27.5	7.9	7.9	23.7	23.7	75.1	76.0	5.1	5.2	2.3	1	2			
					BOILOITI	7.8	0.4	93	27.5	27.5	7.9	7.9	23.7	23.7	76.9	76.0	5.2	3.2	2.3		3			
					Surface	1.0	0.4	81	27.7	27.7	7.9	7.9	23.1	23.2	72.2	72.2	4.9		2.0		4			
					Surface	1.0	0.5	83	27.7	21.1	7.9	1.9	23.2	23.2	72.1	12.2	4.9	4.9	2.1		3			
IM11	Rainy	Moderate	12:02	9.4	Middle	4.7	0.4	93	27.5	27.5	7.9	7.9	23.7	23.7	72.1	72.1	4.9	4.5	2.8	2.9	3	3	821517	810563
IIVIII	1 can by	Moderate	12.02	3.4	Middle	4.7	0.5	96	27.5	21.0	7.9	7.5	23.7	20.7	72.1	72.1	4.9		2.8	2.3	2	3	021317	010303
					Bottom	8.4	0.5	118	27.4	27.4	7.9	7.9	24.3	24.3	77.8	79.2	5.3	5.4	4.0		2			
					Dottom	8.4	0.4	110	27.4	21.4	7.9	7.5	24.3	24.5	80.5	13.2	5.5	5.4	4.0		3			
					Surface	1.0	0.6	94	27.4	27.4	8.0	8.0	24.3	24.3	69.0	69.1	4.7		1.6		4			
					Ouriacc	1.0	0.5	92	27.4	21.4	8.0	0.0	24.3	24.5	69.1	03.1	4.7	4.8	1.5		3			
IM12	Rainy	Moderate	11:57	8.8	Middle	4.4	0.5	120	27.3	27.3	8.0	8.0	24.6	24.6	70.5	70.5	4.8	4.0	2.3	2.4	3	3	821155	811531
IIVITZ	1 can by	Moderate	11.57	0.0	Middle	4.4	0.6	125	27.3	21.0	8.0	0.0	24.6	24.0	70.5	70.5	4.8		2.3	2.7	4	3	021100	011331
					Bottom	7.8	0.5	119	27.3	27.3	8.0	8.0	24.6	24.6	73.7	75.0	5.0	5.1	3.4		2			
					Bottom	7.8	0.5	115	27.3	27.0	8.0	0.0	24.5	24.0	76.3	70.0	5.2	0.1	3.4		3			
					Surface	1.0	0.0	72	27.2	27.2	8.0	8.0	23.4	23.4	76.2	76.6	5.2		2.0		3			
					Gundoc	1.0	0.0	76	27.1	21.2	8.0	0.0	23.5	20.4	76.9	70.0	5.3	5.3	2.1		2			
SR1A	Rainy	Moderate	11:38	4.0	Middle	2.0	-	68	-	_	-	_	-	_	-	_	-	0.0	-	2.6	-	3	819979	812655
OI (II) (	l rainy	Moderate	11.00	4.0	Middle	2.0	0.0	70	-		-		-		-		-		-		-	Ū	010070	0.2000
					Bottom	3.0	0.0	56	26.8	26.8	8.0	8.0	23.6	23.6	85.0	85.8	5.8	5.9	3.1		3			
					20110111	3.0	0.0	49	26.7	20.0	8.0	0.0	23.6	20.0	86.6	00.0	6.0	0.0	3.1		3			
					Surface	1.0	0.4	55	27.7	27.8	8.0	8.0	23.6	23.6	70.4	70.6	4.8		2.1	1	6			
					Gundoo	1.0	0.4	52	27.8	21.0	8.0	0.0	23.7		70.7		4.8	4.8	2.1		5			
SR2	Rainy	Moderate	11:26	5.0	Middle		0.3	35	-	_	-	_	-	_	-	_	-		-	2.6	-	5	821440	814148
						-	0.3	41	-		-		-		-		-		-		-	-		
					Bottom	4.0	0.3	66	28.0	28.0	8.0	8.0	23.8	23.8	73.6	74.2	5.0	5.0	3.1		5			
						4.0	0.3	72	28.0		8.0		23.8		74.8		5.0		3.1		4			
					Surface	1.0	0.4	181	27.0	27.0	8.0	7.9	24.4	24.4	85.8	85.8	6.0		2.7		2			
						1.0	0.4	180	27.0		7.9		24.4		85.7		6.0	5.7	2.7		3			
SR3	Cloudy	Moderate	13:35	8.4	Middle	4.2	0.4	164	26.9	26.9	7.9	7.9	26.7	26.7	76.9	76.9	5.3		5.9	5.4	3	3	822142	807571
	1					4.2	0.5	162	26.8		7.9		26.8		76.8		5.3		6.2	1	4			
					Bottom	7.4	0.4	159	26.8	26.8	7.9	7.9	27.2	27.2	78.6	78.9	5.4	5.4	7.4		3			
						7.4	0.4	159	26.8		7.9		27.2		79.1		5.4		7.3		4			
					Surface	1.0	0.0	94	26.9	26.9	7.9	7.9	25.6	25.6	80.2	80.3	5.6		3.2	1	3			
						1.0	0.0	89	26.9		7.9		25.6		80.3		5.6	5.3	3.2		3			
SR4A	Cloudy	Moderate	11:55	8.8	Middle	4.4	0.0	79	26.9	26.9	7.9	7.9	27.6	27.6	72.5	72.5	5.0		6.0	6.1	3	3	817173	807814
						4.4	0.0	73	26.9		7.9		27.6		72.5		5.0		6.1	-	3			
					Bottom	7.8	0.1	92	26.8	26.8	7.8	7.8	27.9	27.9	72.3 72.3	72.3	4.9	4.9	8.9	-	3			
						7.8	0.1	87	26.8		_		27.9				4.9		9.0					
					Surface	1.0	-	-	27.8	27.8	8.0	8.0	23.0	23.0	76.2	76.3	5.2		1.1	1	3			
						1.0	-	-	27.8		8.0		23.0	-	76.3		5.2	5.2	1.1	1	2			
SR8	Rainy	Moderate	11:53	4.9	Middle	-	-	-	-	-	<u> </u>	-	-	-	-	-			-	1.6	-	3	820402	811606
						- 2.0	-	-	27.6		7.0		- 22.2	-	- 02.2		- 57		- 2.1	1	-			
					Bottom	3.9	-	-	27.6	27.6	7.9	7.9	23.2	23.1	83.2 85.1	84.2	5.7 5.8	5.8	2.1	+	4			
						3.9	-	-	27.0		1.9		23.1		85.1		5.8		2.1		4			

Water Quality Monitoring Results on

14 September 23 during Mid-Flood Tide

Monitoring	Weather	Sea	Sampling	Water	Sampling Dept		Current Speed	Current	Water Te	emperature (°C)		pН	Salir	nity (ppt)	DO S	aturation (%)	Disso Oxy		Turbidity	(NTU)	Suspende (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Gampling Dept	()	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.3	27	26.9	26.9	8.0	8.0	27.6	27.6	81.6	81.6	5.6		3.4		6			
					Ouriacc	1.0	0.3	30	26.9	20.3	8.0	0.0	27.6	27.0	81.5	01.0	5.6	5.5	3.4		5			
C1	Cloudy	Moderate	19:36	8.2	Middle	4.1	0.4	22	26.5	26.5	8.0	8.0	30.1	30.1	77.9 77.9	77.9	5.3	3.5	8.9	8.1	3	4	815625	804243
01	Cioday	Woderate	13.50	0.2	Ivilduic	4.1	0.4	17	26.5	20.5	8.0	0.0	30.1	30.1		11.5	5.3		9.2	] 0.1	4	7	013023	004243
					Bottom	7.2	0.3	42	26.5	26.5	8.0	8.0	30.1	30.1	72.8 70.5	71.7	4.9	4.9	11.6	1	3			
					Dottom	7.2	0.3	40	26.5	20.5	8.0	0.0	30.1	30.1		71.7	4.8	4.5	11.8		4			
					Surface	1.0	0.0	160	27.0	27.0	8.0	8.0	24.4	24.4	85.2 85.1	85.2	5.9		2.6		4			
					Ouriacc	1.0	0.0	167	27.0	27.0	8.0	0.0	24.4	24.4		00.2	5.9	5.6	2.6		5			
C2	Cloudy	Moderate	17:53	11.4	Middle	5.7	0.0	178	26.8	26.8	7.9	7.9	26.9	26.9	75.4	75.5	5.2	0.0	6.0	6.3	4	4	825702	806945
02	Cioday	Woderate	17.00	11.4	Iviiduio	5.7	0.1	177	26.8	20.0	7.9	7.0	26.9	20.0	75.5	70.0	5.2		5.9	] 0.0	4	7	020702	000040
					Bottom	10.4	0.0	174	26.8	26.8	7.9	7.9	27.3	27.3	74.2 74.3	74.3	5.1	5.1	10.1	1	4			
					2000111	10.4	0.0	177	26.8	20.0	7.9	7.0	27.3	21.0			5.1	0	10.9		2			
					Surface	1.0	0.4	276	26.7	26.8	8.0	8.0	26.2	26.2	60.4 60.4	60.4	4.1		1.0	1	3			
						1.0	0.5	269	26.8		8.0		26.2				4.1	4.1	1.0	1	4			
C3	Rainy	Moderate	18:47	10.2	Middle	5.1	0.4	259	26.8	26.8	8.0	8.0	26.2	26.2	59.9	60.0	4.1		1.7	1.7	4	4	822102	817786
	1					5.1	0.4	254	26.8		8.0		26.2		60.0		4.1		1.7	1	3			
					Bottom	9.2	0.4	276	26.8	26.8	8.0	8.0	26.2	26.1	60.7	62.5	4.1	4.2	2.6	1	4			
						9.2	0.4	268	26.8		8.0		26.1				4.3		2.5		4			
					Surface	1.0	0.2	6	26.8 26.8	26.8	8.0	8.0	28.3	28.3	79.8 79.8	79.8	5.5		4.9	4	4			
						1.0 3.2	0.2	11 26	26.6				28.3		77.4		5.5 5.3	5.4	4.9 7.2	-	3 5			
IM1	Cloudy	Moderate	19:11	6.4	Middle	3.2	0.1	27	26.6	26.6	8.0	8.0	29.8	29.8	77.4	77.4	5.3		7.2	7.3	4	4	818367	806466
						5.4	0.1	19	26.5		8.0		29.8				5.3		9.6	1	4			
					Bottom	5.4	0.2	20	26.5	26.5	8.0	8.0	29.9	29.9	77.9 78.0	78.0	5.3	5.3	9.9	1	5			
						1.0	0.2	353	27.0		8.0		27.1				5.8		3.2		2			
					Surface	1.0	0.1	351	27.0	27.0	8.0	8.0	27.1	27.1	84.6 84.6	84.6	5.8		3.2	1	3			
						3.4	0.1	353	26.8		8.0		28.3		79.6		5.4	5.6	7.1	†	2			
IM2	Cloudy	Moderate	19:05	6.8	Middle	3.4	0.1	357	26.7	26.8	8.0	8.0	28.4	28.3	79.5	79.6	5.4		7.8	7.1	3	3	819199	806224
					_	5.8	0.1	14	26.6		8.0		29.1				5.3		10.6	†	2			
					Bottom	5.8	0.1	10	26.6	26.6	8.0	8.0	29.1	29.1	78.3 78.2	78.3	5.3	5.3	10.6	1	3			
					0.1	1.0	0.2	266	27.1	07.4	7.9		25.1	05.4		70.0	5.4		2.4		3		i	
					Surface	1.0	0.1	270	27.1	27.1	7.9	7.9	25.0	25.1	78.7 78.8	78.8	5.5	ایا	2.5	1	3			
IM7	Cloudy	Madarata	18:33	0.2	Middle	4.2	0.2	277	26.9	26.9	8.0	8.0	26.9	26.9	78.2	78.2	5.4	5.4	3.5	3.9	3	3	821335	806833
IIVI7	Cloudy	Moderate	10:33	8.3	Middle	4.2	0.2	283	26.9	20.9	8.0	6.0	26.9	20.9	78.2	1 /6.2	5.4		3.5	] 3.9	4	3	021335	000033
					Bottom	7.3	0.1	290	26.8	26.8	8.0	8.0	27.5	27.5	78.9	79.1	5.4	5.4	5.8	1	3			
					DULUIII	7.3	0.1	293	26.8	20.0	8.0	0.0	27.5	21.3	79.3	79.1	5.4	5.4	5.9		4			

DA: Depth-Averaged

Water Quality Monitoring Results on

14 September 23 during Mid-Flood Tide

water Qua	tty monit	orning recou			14 September 23	auring mia	1 1000 11	<u>uc</u>																
Monitoring	Weather	Sea	Sampling	Water	0 " 5		Current Speed	Current	Water Te	emperature (°C)		рН	Salir	nity (ppt)		aturation %)	Disso		Turbidity	(NTU)	Suspende (mg/		Coordinate	Coordinate
Station	Condition	Condition	Time	Depth (m)	Sampling Dep	in (m)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	HK Grid (Northing)	HK Grid (Easting)
			İ		Surface	1.0	0.2	260	27.7	07.7	8.0	8.0	22.3	22.4	75.4	75.1	5.1		1.2		5			
					Surface	1.0	0.2	261	27.6	27.7	8.0	6.0	22.4	22.4	74.8	75.1	5.1	5.0	1.2	1	6			
IM10	Rainy	Moderate	17:48	8.4	Middle	4.2	0.2	259	27.0	27.0	8.0	8.0	25.5	25.5	73.2	73.1	5.0	5.0	1.8	1.8	4	4	822235	809851
IIVITO	Italily	Moderate	17.40	0.4	Midule	4.2	0.2	257	27.0	27.0	8.0	0.0	25.5	25.5	72.9	75.1	4.9		1.8	1.0	3	4	022233	009031
					Bottom	7.4	0.2	235	27.2	27.3	7.9	7.9	25.1	24.9	69.8	70.5	4.7	4.8	2.4		3			
					Bottom	7.4	0.2	228	27.3	27.0	7.9	7.0	24.8	24.0	71.1	70.0	4.8	4.0	2.4		4			
					Surface	1.0	0.4	280	27.2	27.2	8.0	8.0	24.8	24.9	70.1	70.1	4.9		1.2	1	3			
						1.0	0.4	280	27.1		8.0		24.9		70.0		4.9	4.6	1.2		3			
IM11	Rainy	Moderate	18:05	8.0	Middle	4.0	0.3	264	26.9	26.9	8.0	8.0	25.7	25.7	64.0	64.0	4.3		2.4	2.3	3	3	821513	810545
						4.0	0.3	257	26.8		8.0		25.8		64.0		4.3		2.4		3			
					Bottom	7.0	0.3	260	27.0	27.1	8.0	8.0	25.8	25.8	64.9	65.1	4.4	4.4	3.2	1	3			
			<u> </u>			7.0	0.3	263	27.1		8.0		25.8		65.2		4.4		3.2		3			
					Surface	1.0	0.3	276	27.4	27.4	7.9	7.9	24.4	24.4	67.7	67.7	4.6		1.1	-	3			
						1.0	0.3	281	27.4		7.9		24.4		67.7		4.6	4.6	1.1	-	4			
IM12	Rainy	Moderate	18:10	7.8	Middle	3.9	0.4	258	27.4	27.4	7.9	7.9	24.6	24.6	67.7	67.8	4.6		1.7	1.7	3	4	821182	811527
							0.4	264	27.4		7.9		24.7		67.9				1.7	1	4			
					Bottom	6.8	0.3	267 269	27.5 27.6	27.6	7.9	7.9	24.7	24.7	70.1 71.8	71.0	4.7	4.8	2.4	1	4			
			1			1.0	0.3	172	27.9	l			23.8		_		5.2		1.3		2		<u> </u>	I
					Surface	1.0	0.0	177	27.8	27.9	7.9	7.9	23.9	23.8	76.8 77.8	77.3	5.2		1.3	1	2			
						2.7	-	178	-		1.5		-		-		-	5.2	- 1.5	1	-			
SR1A	Rainy	Moderate	18:29	5.4	Middle	2.7	0.1	179	+ -	-	H	-	<u> </u>	-		-	-		<u> </u>	1.8		3	819974	812665
						4.4	0.0	194	27.4		7.9		24.5		84.6		5.7		2.3	1	4			
					Bottom	4.4	0.0	191	27.8	27.6	7.9	7.9	23.5	24.0	88.1	86.4	5.9	5.8	2.3	1	3			
						1.0	0.2	242	26.7		7.9		26.2		66.1		4.5		1.8		4			
					Surface	1.0	0.1	240	26.7	26.7	7.9	7.9	26.3	26.2	66.5	66.3	4.5		1.8	1	3			
						-	0.1	224	-		-		-		-		-	4.5	-		-			
SR2	Rainy	Moderate	18:47	4.9	Middle	_	0.1	222	-	-	-	-	-	1 -	-	-	-		-	1.9	- 1	3	821484	814180
					5	3.9	0.1	227	26.7		7.9		26.4		75.4	70.5	5.1		2.1	i	3			
					Bottom	3.9	0.2	222	26.7	26.7	7.9	7.9	26.3	26.3	77.5	76.5	5.2	5.2	2.1	1	2			
				ĺ	Surface	1.0	0.1	316	27.0	27.0	8.0	0.0	24.5	24.5	85.7	05.7	6.0		2.6		3		ĺ	
					Surface	1.0	0.1	318	27.0	27.0	8.0	8.0	24.5	24.5	85.6	85.7	5.9	5.6	2.6	1	3			
SR3	Cloudy	Moderate	18:27		Middle	4.4	0.1	310	26.9	26.0	7.9	7.0	25.2	25.2	75.4	75.2	5.2	3.0	5.4	5.2	4	3	822147	807582
313	Cloudy	Moderate	10.27	8.8	ivildale	4.4	0.2	309	26.9	26.9	7.9	7.9	25.2	25.2	75.2	75.3	5.2		5.8	3.2	3	3	022147	007362
					Bottom	7.8	0.1	305	26.8	26.8	7.9	7.9	27.4	27.4	75.0	75.2	5.1	5.2	7.6		3			
					Dottom	7.8	0.1	302	26.8	20.0	7.9	1.5	27.4	21.4	75.3	13.2	5.2	5.2	7.6		4			
					Surface	1.0	0.0	193	27.1	27.1	8.0	8.0	24.8	24.8	82.2	82.2	5.7		8.9		2			
					Gundoo	1.0	0.0	189	27.1	27.1	8.0	0.0	24.8	24.0	82.2	02.2	5.7	5.4	8.4		3			
SR4A	Cloudy	Moderate	20:07	9.3	Middle	4.7	0.0	212	26.9	26.9	7.9	7.9	27.6	27.6	72.8	72.8	5.0	0	6.2	8.6	3	3	817166	807806
						4.7	0.0	209	26.8		7.9		27.6		72.8		5.0		6.2	1	3	-		
					Bottom	8.3	0.0	220	26.8	26.8	7.9	7.9	27.8	27.8	74.2	74.6	5.1	5.1	10.9	1	3			
			<u> </u>			8.3	0.1	227	26.8		7.9		27.8		74.9		5.1		10.7		3			
					Surface	1.0	-	-	28.0	28.0	7.9	7.9	24.4	24.5	75.5	75.6	5.1		3.4	1	3			
						1.0	-	-	27.9		7.9		24.5		75.7		5.1	5.1	3.4	4	4			
SR8	Rainy	Moderate	18:14	5.9	Middle	-	-	-	-	-	-	-	-	- 1	-	-	-		-	4.0		3	820398	811621
						-	-	-	- 07.0		- 7.0		- 04.0		-		-		- 4.7	1	-			
					Bottom	4.9	-	-	27.8	27.9	7.9	7.9	24.6	24.5	81.0 83.6	82.3	5.4 5.6	5.5	4.7	1	3			
DA: Donth Avoi						4.9	-	-	27.9		7.9		24.4		83.6		5.6		4.7		2			

DA: Depth-Average

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

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

Water Quality Monitoring Results on 16 September 23 during Mid-Ebb Tide

Monitoring	Weather	Sea	Sampling	Water	Sampling Dept		Current Speed	Current	Water Te	emperature (°C)	pl	Н	Salin	ity (ppt)	DO S	aturation (%)	Disso		Turbidity	(NTU)	Suspende (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Gampling Dept	()	(m/s)	Direction	Value	Average	Value /	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.3	207	27.1	27.1	8.0	8.0	25.4	25.4	83.4	83.4	5.8		3.6		4			
					Surface	1.0	0.4	200	27.1	21.1	8.0	0.0	25.4	25.4	83.4	05.4	5.8	5.7	3.6		5			
C1	Cloudy	Rough	12:38	7.8	Middle	3.9	0.3	218	26.9	26.9	8.0	8.0	26.9	26.9	80.6	80.6	5.5	3.7	4.8	5.4	4	5	815639	804258
01	Cloudy	rtougn	12.50	7.0	Wilddie	3.9	0.3	223	26.9	20.5	8.0	0.0	26.9	20.5	80.6	00.0	5.5		4.8	] 5.4	5	3	013033	004230
					Bottom	6.8	0.3	215	26.8	26.8	8.0	8.0	29.5	29.5	74.6	74.7	5.1	5.1	7.9		4			
					Bottom	6.8	0.3	215	26.8	20.0	8.0	0.0	29.5	20.0	74.7	7-7-7	5.1	0.1	7.9		5			
					Surface	1.0	0.7	167	27.4	27.4	7.9	7.9	23.0	23.0	78.2	78.3	5.4		3.2		3			
					Odiface	1.0	0.7	164	27.4	27.4	7.9	7.5	23.0	25.0	78.4	70.5	5.5	5.3	3.2		3			
C2	Cloudy	Moderate	14:19	10.4	Middle	5.2	0.7	176	27.3	27.3	7.9	7.9	23.7	23.7	75.0 75.0	75.0	5.2	0.0	3.2	4.3	3	3	825676	806929
02	Cloudy	Moderate	14.13	10.4	Wilddie	5.2	0.7	179	27.3	27.0	7.9	7.5	23.7	20.1		75.0	5.2		3.2	] 4.5	3	3	023070	000323
					Bottom	9.4	0.6	168	27.1	27.1	7.9	7.9	25.7	25.7	74.1	74.2	5.1	5.1	6.4		2			
					Bottom	9.4	0.7	161	27.1	27.1	7.9	1.5	25.7	25.7	74.2	14.2	5.1	5.1	6.4		3			
					Surface	1.0	0.3	87	26.5	26.5	8.0	8.0	24.2	24.2	74.9	74.9	5.3		0.7		4			
					Odiface	1.0	0.4	80	26.5	20.5	8.0	0.0	24.3	24.2	74.8	14.5	5.3	5.2	0.7		3			
C3	Misty	Moderate	12:34	10.8	Middle	5.4	0.4	72	26.1	26.1	8.0	8.0	28.2	28.2	72.3 72.3	72.3	5.0	5.2	2.0	1.7	5	4	822085	817820
03	iviisty	Moderate	12.54	10.0	Wilddie	5.4	0.4	71	26.1	20.1	8.0	0.0	28.2	20.2		12.5	5.0		2.0	] '.,	4	7	022003	017020
					Bottom	9.8	0.3	89	26.1	26.1	8.0	8.0	28.6	28.6	73.1	73.2	5.0	5.1	2.6		4			
					Bottom	9.8	0.3	86	26.1	20.1	8.0	0.0	28.6	20.0	73.2	70.2	5.1	0.1	2.6		5			
					Surface	1.0	0.2	186	27.2	27.2	8.0	8.0	25.5	25.5	84.7	84.7	5.8		2.9		4			
						1.0	0.2	193	27.2		8.0	0.0	25.5	20.0	84.7	0	5.8	5.8	2.9		4			
IM1	Cloudy	Moderate	13:03	7.2	Middle	3.6	0.2	192	27.1	27.1	8.0	8.0	25.6	25.6	83.7 83.6	83.7	5.8	0.0	3.2	4.1	6	5	818345	806481
	Oloudy	Moderate	10.00	7.2	Wilddie	3.6	0.2	190	27.1	27.1	8.0	0.0	25.6	20.0		00.7	5.8		3.3	1	6	Ü	010040	000401
					Bottom	6.2	0.2	172	26.8	26.8	8.0	8.0	28.8	28.8	77.5	77.5	5.3	5.3	6.3		6			
					25115111	6.2	0.3	164	26.8	20.0	8.0	0.0	28.8	20.0	77.5		5.3	0.0	6.3		5			
					Surface	1.0	0.2	185	27.2	27.2	8.0	8.0	25.4	25.4	86.4	86.4	6.0		2.8		6			
					Curiuoc	1.0	0.2	190	27.2	27.2	8.0	0.0	25.5	20.7	86.4	00.4	6.0	5.8	2.9		4			
IM2	Cloudy	Moderate	13:18	7.4	Middle	3.7	0.3	172	26.9	26.9	8.0	8.0	27.9	27.9	81.9	81.9	5.6	0.0	4.7	5.6	5	5	819194	806228
11412	Cioday	Moderate	10.10	7	Wildale	3.7	0.3	167	26.9	20.0	8.0	0.0	27.9	27.0	81.9	01.0	5.6		4.7	] 0.0	4	o	010104	000220
					Bottom	6.4	0.2	190	26.8	26.8	8.0	8.0	28.8	28.8	77.1	77.2	5.2	5.3	9.4		5			
					Bottom	6.4	0.2	191	26.8	20.0	8.0	0.0	28.8	20.0	77.2		5.3	0.0	9.3		4			
					Surface	1.0	0.2	162	27.2	27.2	7.9	7.9	24.8	24.8	72.6	72.6	5.0		6.6		4			
					Cuitacc	1.0	0.1	155	27.2	27.2	7.9	7.5	24.8	2-7.0	72.6	, 2.0	5.0	5.2	6.6	1	5			
IM7	Cloudy	Moderate	13:45	8.1	Middle	4.1	0.3	170	27.0	27.0	8.0	8.0	27.1	27.1	77.4	77.4	5.3	0.2	5.9	7.3	5	5	821347	806817
11417	Cloudy	Moderate	10.70	0.1	IVIIQUIG	4.1	0.2	168	27.0	21.0	8.0	0.0	27.1	21.1	77.4	11.4	5.3		5.9	] ′.3	5	3	021077	000017
					Bottom	7.1	0.3	177	26.9	26.9	8.0	8.0	28.2	28.2	78.5	78.5	5.4	5.4	9.4		5			
					Dottom	7.1	0.3	172	26.9	20.3	8.0	0.0	28.2	20.2	78.5	10.5	5.4	5.4	9.5		6			

DA: Depth-Averaged

Water Quality Monitoring Results on 16 September 23 during Mid-Ebb Tide

Monitoring	Weather	Sea	Sampling	Water	Sampling Dept	h (m)	Current Speed	Current	Water Te	emperature (°C)		pН	Salin	ity (ppt)		aturation (%)	Disso Oxy		Turbidity	(NTU)	Suspende (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Gampling Bopt	()	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.5	95	26.8	26.8	7.9	7.9	20.9	20.9	72.5	72.4	5.2		2.8		6			
					Curiuoc	1.0	0.5	98	26.8	20.0	7.9	7.0	20.9	20.0	72.2	12.7	5.1	5.0	2.9		6			
IM10	Misty	Moderate	13:51	8.8	Middle	4.4	0.5	99	26.4	26.4	8.0	8.0	24.4	24.4	70.2	70.2	4.9	0.0	3.1	3.4	3	4	822263	809848
						4.4	0.5	106	26.4		8.0		24.4		70.1		4.9		3.1	1	3			
					Bottom	7.8	0.5	120	26.3	26.3	7.9	7.9	25.8	25.8	70.3	70.4	4.9	4.9	4.4	1	4			
						7.8	0.4	120	26.3		7.9		25.8		70.5		4.9		4.3		4			
					Surface	1.0	0.6	107	26.8	26.8	7.9	7.9	20.9	20.9	72.4 72.4	72.4	5.2		3.0	4	3			
						1.0	0.5	106	26.8		7.9		20.9				5.2	5.2	3.0	+	7			
IM11	Misty	Moderate	13:45	9.2	Middle	4.6 4.6	0.6	107 105	26.6 26.6	26.6	8.0	8.0	23.0	23.1	71.6 71.6	71.6	5.1 5.1		4.3	4.2	3	4	821479	810531
						8.2	0.6	111	26.4				_		_		-		5.3	1	3			
					Bottom	8.2	0.5	106	26.4	26.4	8.0	8.0	24.3	24.3	71.7	71.8	5.0 5.1	5.1	5.3	1	4			
						1.0	0.6	113	26.7		7.9		21.5		71.9		5.0		2.4		4			
					Surface	1.0	0.6	116	26.7	26.7	7.9	7.9	21.5	21.5	71.0	71.0	5.0		2.4	1	7			
						4.5	0.6	92	26.5		7.9		23.8		71.0		5.0	5.0	4.0	1	4			
IM12	Misty	Moderate	13:37	9.0	Middle	4.5	0.6	87	26.5	26.5	7.9	7.9	23.8	23.8	71.0	71.0	5.0		4.0	4.4	3	5	821157	811510
						8.0	0.5	117	26.5		7.9		24.6		70.5		4.9		6.7	1	6			
					Bottom	8.0	0.6	115	26.5	26.5	7.9	7.9	24.6	24.6	70.6	70.6	5.0	5.0	6.7	1	5			
						1.0	0.0	50	26.7		7.9		22.9		75.2		5.3		2.0		6			
					Surface	1.0	0.0	42	26.7	26.7	7.9	7.9	22.9	22.9	75.1	75.2	5.3		2.0	1	7			
0044			40.40			2.5	0.1	43	-		-		-		-		-	5.3	-	1	-	_		
SR1A	Misty	Moderate	13:12	5.0	Middle	2.5	0.1	35	-	-	-	1 -	-	-	-	-	-		-	2.1	-	5	819981	812663
					D.#	4.0	0.0	66	26.6	00.0	7.9	7.0	24.2	04.4	72.9	70.0	5.1	- 1	2.3	1	4			
					Bottom	4.0	0.0	67	26.6	26.6	7.9	7.9	24.1	24.1	73.0	73.0	5.1	5.1	2.3	1	3			
					Surface	1.0	0.4	57	26.6	26.6	7.9	7.9	24.3	24.3	73.5	73.5	5.1		2.1		5			
					Surface	1.0	0.4	56	26.6	20.0	7.9	7 7.9	24.3	24.3	73.5	13.5	5.1	5.1	2.0	1	3			
SR2	Misty	Moderate	13:00	4.4	Middle	-	0.4	32	-		-		-		-		-	3.1	-	2.6	-	5	821472	814159
3112	iviisty	Woderate	13.00	4.4	ivildule	-	0.4	31	-	-	-	_	-	_	-	_	-		-	2.0	-	3	021472	014139
					Bottom	3.4	0.4	62	26.4	26.4	7.9	7.9	25.4	25.4	71.8	71.9	5.0	5.0	3.2		5			
					Dottom	3.4	0.5	66	26.4	20.4	7.9	7.5	25.4	20.4	71.9	71.5	5.0	5.0	3.2		6			
					Surface	1.0	0.5	163	27.3	27.3	7.9	7.9	23.7	23.7	75.1	75.1	5.2		3.2		5			
					Curiuoc	1.0	0.5	167	27.3	27.0	7.9	7.0	23.7	20.7	75.1	70.1	5.2	5.2	3.2	]	6			
SR3	Cloudy	Moderate	13:55	8.6	Middle	4.3	0.4	163	27.1	27.1	7.9	7.9	26.0	26.0	73.8	73.8	5.1	0.2	6.7	6.2	3	5	822158	807575
0.10	O.Guay	ouo.u.o	10.00	0.0		4.3	0.5	157	27.1	2	7.9		26.0	20.0	73.8	. 0.0	5.1		6.7	J 0	5	ŭ	022.00	00.0.0
					Bottom	7.6	0.4	178	26.9	26.9	8.0	8.0	27.5	27.5	77.0	77.0	5.3	5.3	8.7	1	4			
						7.6	0.5	178	26.9		8.0		27.5		77.0		5.3		8.8		5			
					Surface	1.0	0.1	102	27.1	27.1	7.9	7.9	26.4	26.4	79.3	79.3	5.4		5.4	4	5			
						1.0	0.0	101	27.1		7.9		26.4		79.3		5.4	5.4	5.5	4	5			
SR4A	Cloudy	Moderate	12:11	9.7	Middle	4.9	0.0	102	27.0	27.0	7.9	7.9	27.0	27.0	77.5	77.5	5.3		7.0	7.4	5	5	817171	807802
						4.9	0.0	106	27.0		7.9		27.0		77.5		5.3		7.0	1	4			
					Bottom	8.7 8.7	0.1	83 83	27.0 27.0	27.0	7.9	7.9	27.6	27.6	76.9 77.0	77.0	5.3 5.3	5.3	9.7 9.8	1	<u>4</u> 5			
			+			1.0	0.1	- 83	26.7		7.9	<u> </u>	22.7		71.6		5.3		3.3		3			1
					Surface	1.0	-	-	26.8	26.8	7.9	7.9	22.7	22.7	71.0	71.7	5.1		3.2	1	5			
						1.0	-	-	20.8		7.9		- 22.1		71.7		5.1	5.1	3.2	1	-			
SR8	Misty	Moderate	13:32	4.2	Middle	-	-	-	+	-	H	<del> </del> -	-	-	-	-			<u> </u>	4.0	-	4	820391	811636
						3.2	-	-	26.6		7.9		23.7		71.3		5.0		4.9	1	5			
					Bottom	3.2			26.6	26.6	7.9	7.9	23.7	23.7	71.4	71.4	5.0	5.0	4.8	1	4			
A: Donth Avor						J.Z	-	-	20.0		1.9	l .	23.1		11.4		0.0		4.0		4			

DA: Depth-Averaged

Water Quality Monitoring Results on 16 September 23 during Mid-Flood Tide

water Qua	iity woilit	oring Resu	iito oii		16 September 23	uuring wiiu-	FIOOU II	ue																
Manitanian	Weather	Sea	Sampling	Water			Current	Cumant	Water Te	emperature (°C)	p⊦	4	Salin	ity (ppt)	DO S	aturation	Disso		Turbidity	(NTU)	Suspende		Coordinate	Coordinat
Monitoring Station					Sampling Dept	h (m)	Speed	Current Direction		. ,	<u> </u>					(%)	Оху	gen		<del>`                                    </del>	(mg	/L)	HK Grid	HK Grid
Station	Condition	Condition	Time	Depth (m)			(m/s)	Direction	Value	Average	Value A	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting
	İ				Surface	1.0	0.4	31	27.1	27.1	8.0	8.0	26.5	26.5	83.3	83.3	5.7		3.6	İ	5			
					Surface	1.0	0.4	32	27.1	27.1	8.0	6.0	26.5	26.5	83.2	03.3	5.7		3.6	1	3			
C1	Claudy	Davish	20:41	7.2	Middle	3.6	0.4	20	26.8	26.8	8.0	8.0	28.4	28.4	81.5	81.5	5.6	5.7	5.2	5.2	5	4	815597	804239
CI	Cloudy	Rough	20:41	1.2	ivildale	3.6	0.4	12	26.8	20.8	8.0	6.0	28.4	20.4	81.5	61.5	5.6		5.2	5.2	5	4	615597	60423
					Bottom	6.2	0.4	52	26.8	26.8	8.0	8.0	29.3	29.3	78.4	78.5	5.3	5.3	6.9	1	3			
					Bollom	6.2	0.4	51	26.8	20.0	8.0	0.0	29.3	29.3	78.5	70.5	5.3	5.5	6.9	1	4			
					Surface	1.0	0.1	333	27.5	27.5	7.9 7.9	7.9	22.6	22.6	80.5	80.5	5.7		2.5		6			
					Surface	1.0	0.1	329	27.5	27.5	7.9	7.9	22.6	22.0	80.5	60.5	5.7	5.5	2.5		5			
C2	Cloudy	Rough	19:08	10.1	Middle	5.1	0.1	332	27.0	27.0	7.9	7.9	26.4	26.4	76.7	76.7	5.3	0.0	9.6	7.5	4	4	825699	806938
O2	Cloudy	rtougn	13.00	10.1	Ivilduic	5.1	0.1	336	27.0	21.0	7.9	7.5	26.4	20.4	76.7	70.7	5.3		9.5	] '.5	4		023033	000330
					Bottom	9.1	0.1	346	27.0	27.0	7.9	7.9	27.0	27.0	71.7	71.7	4.9	4.9	10.6		3			
					Bottom	9.1	0.1	346	27.0	27.0	7.9	1.0	27.0	27.0	71.7	7 1.7	4.9	4.0	10.5		4			
					Surface	1.0	0.4	252	26.3	26.3	8.0	8.0	26.6	26.7	72.0 72.0	72.0	5.0		1.0	1	8			
						1.0	0.4	248	26.3		8.0		26.7				5.0	5.0	1.0	1	9			
C3	Misty	Moderate	19:27	10.2	Middle	5.1	0.4	273	26.1	26.1	8.0	8.0	27.6	27.6	71.9	71.9	5.0		2.0	1.8	9	9	822132	817788
	'					5.1	0.4	274	26.1		8.0		27.6		71.9		5.0		2.0	4	6			
					Bottom	9.2 9.2	0.4	268 272	26.2 26.2	26.2	8.0	8.0	27.8	27.7	74.3	74.5	5.1 5.2	5.2	2.5 2.5	-	12 7			
						1.0	0.4	4											3.0					
					Surface	1.0	0.2	9	27.2 27.1	27.2	8.0	8.0	25.7 25.7	25.7	87.9 87.8	87.9	6.1		3.0	1	5			
						3.4	0.1	34	26.9		8.0		28.3		81.6		5.6	5.9	4.5	1	6			
IM1	Cloudy	Rough	20:21	6.8	Middle	3.4	0.2	38	26.9	26.9	8.0	8.0	28.3	28.3	81.6	81.6	5.6		4.6	5.0	5	5	818358	806455
					_	5.8	0.2	39	26.8		8.0		28.9		78.4		5.3		7.4	1	4			
					Bottom	5.8	0.2	46	26.8	26.8	8.0	8.0	28.9	28.9	78.4	78.4	5.3	5.3	7.5	1	4			
					0	1.0	0.2	15	27.1	27.1	8.0	0.0	26.6	00.5	86.1	00.0	5.9		2.8		3			
					Surface	1.0	0.2	18	27.1	27.1	8.0	8.0	26.5	26.5	86.2	86.2	5.9	5.9	2.8	1	5			
IM2	Cloudy	Rough	20:08	7.1	Middle	3.6	0.2	26	27.0	27.0	8.0	8.0	27.7	27.6	84.4	84.5	5.8	5.9	3.5	4.7	4	5	819169	806228
IIVIZ	Cloudy	Rougii	20.06	7.1	ivildale	3.6	0.2	22	27.0	27.0	8.0	0.0	27.6	27.0	84.5	04.5	5.8		3.5	] 4./	4	5	019109	000220
					Bottom	6.1	0.3	349	26.8	26.8	8.0	8.0	29.0	29.0	78.3 78.4	78.4	5.3	5.3	7.9		6			
					Dottom	6.1	0.3	342	26.8	20.0	8.0	0.0	29.0	29.0	78.4	70.4	5.3	5.5	7.8		6			
					Surface	1.0	0.2	307	26.9	26.9	8.0	8.0	25.7	25.7	84.4	84.4	5.9		4.2		6			
						1.0	0.2	313	26.9	20.0	8.0	0.0	25.7		84.3	J	5.9	5.7	4.2	1	7			
IM7	Cloudy	Rough	19:42	7.9	Middle	4.0	0.2	314	26.9	26.9	8.0	8.0	27.7	27.7	77.1	77.1	5.4		5.3	5.6	4	5	821327	806850
*****			1			4.0	0.2	311	26.8		8.0		27.7		77.1		5.4		5.3	1	4	_		
					Bottom	6.9	0.1	325	26.8	26.8	8.0	8.0	28.7	28.7	66.5 66.5	66.5	4.5	4.5	7.1	1	4			
						6.9	0.2	329	26.8		8.0		28.7		66.5		4.5		7.2		4			

DA: Depth-Averaged

Water Quality Monitoring Results on 16 September 23 during Mid-Flood Tide

vvalei Qua	ity wioiii	orning recou	1113 011		16 September 23	during mid	1 1000 1	iue																
Monitoring	Weather	Sea	Sampling	Water	Otion Donat	h ()	Current Speed	Current	Water Te	emperature (°C)	t	рН	Salin	ity (ppt)		aturation %)	Disso Oxy		Turbidity	(NTU)	Suspender (mg/		Coordinate	Coordinate
Station	Condition	Condition	Time	Depth (m)	Sampling Dep	n (m)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	HK Grid (Northing)	HK Grid (Easting)
					0	1.0	0.2	246	26.9	00.0	7.9	7.0	20.1	00.4	73.9	70.0	5.3		2.0		12			
					Surface	1.0	0.2	249	26.9	26.9	7.9	7.9	20.1	20.1	73.9	73.9	5.3		2.0	1	9			
13.440			40.00			4.9	0.2	237	26.4	20.4	8.0		24.6	04.0	69.5	00.5	4.9	5.1	4.0	1	9	_		
IM10	Misty	Moderate	18:30	9.8	Middle	4.9	0.2	232	26.4	26.4	8.0	8.0	24.6	24.6	69.4	69.5	4.9		4.0	3.5	6	7	822255	809826
					D.#	8.8	0.2	236	26.6	00.0	7.9	7.0	26.2	00.0	68.8	00.0	4.8	4.0	4.6	1	4			
					Bottom	8.8	0.3	237	26.6	26.6	7.9	7.9	26.2	26.2	68.9	68.9	4.8	4.8	4.5	1	3			
					0	1.0	0.2	262	26.7	26.7	7.9	7.0	21.5	04.5	71.5	71.5	5.1		2.1		7			
					Surface	1.0	0.2	263	26.7	20.7	7.9	7.9	21.5	21.5	71.4	71.5	5.1	5.1	2.1	1	5			
IM11	Michy	Madarata	18:35	7.0	Middle	3.9	0.3	251	26.5	26.5	8.0	9.0	23.5	22.5	71.1	71.0	5.0	5.1	4.3	4.0	8	6	821477	810528
IIVI I I	Misty	Moderate	16:35	7.8	ivildale	3.9	0.3	257	26.5	26.5	8.0	8.0	23.6	23.5	71.2	71.2	5.0		4.3	4.0	6	0	0214//	010020
					Dettem	6.8	0.3	264	26.5	00 F	8.0	0.0	24.2	24.2	73.3	73.4	5.2	5.2	5.7	1	6			
					Bottom	6.8	0.2	256	26.5	26.5	8.0	8.0	24.1	24.2	73.5	73.4	5.2	5.2	5.7		6			
					Surface	1.0	0.3	292	26.8	26.8	7.9	7.0	21.0	24.4	71.6	71.6	5.1		2.0		13			
					Surface	1.0	0.2	285	26.8	20.8	7.9	7.9	21.1	21.1	71.5	71.0	5.1	5.0	2.0	1	9			
IM12	Minter	Madausta	40.20	7.0	Middle	3.6	0.3	288	26.5	26.5	7.9	7.0	24.0	24.0	69.7	60.7	4.9	5.0	3.9	1	6	8	004445	044500
IIVI IZ	Misty	Moderate	18:39	7.2	ivildale	3.6	0.2	286	26.5	26.5	7.9	7.9	24.0	24.0	69.7	69.7	4.9		3.8	3.3	7	0	821145	811506
					Pottom	6.2	0.3	284	26.5	26.5	7.9	7.0	24.3	24.3	70.3	70.4	4.9	5.0	4.1	1	8			
					Bottom	6.2	0.3	286	26.5	20.5	7.9	7.9	24.3	24.3	70.5	70.4	5.0	5.0	4.1	1	7			
					Confess	1.0	0.0	186	26.7	26.7	7.9	7.9	23.1	22.4	73.5	70 F	5.2		1.3		8			
					Surface	1.0	0.0	190	26.7	20.7	7.9	7.9	23.1	23.1	73.5	73.5	5.2	5.2	1.3	1	13			
SR1A	Michy	Madarata	10.52	E 4	Middle	2.7	-	196	-		-		-		-		-	5.2	-	1,,	-	9	910090	812654
SKIA	Misty	Moderate	18:53	5.4	ivildale	2.7	0.0	189	-	-	-	-	-	-	-	-	-		-	1.8	-	9	819980	612004
					Bottom	4.4	0.0	177	26.7	26.8	7.9	7.9	23.1	23.1	73.9	74.0	5.2	5.2	2.3	1	9			
					BOLLOITI	4.4	0.0	173	26.8	20.0	7.9	7.9	23.1	23.1	74.0	74.0	5.2	5.2	2.3	1	7			
					Surface	1.0	0.2	231	26.7	26.7	7.9	7.9	22.5	22.5	72.6	72.7	5.1		2.5		10			
					Surface	1.0	0.2	229	26.7	20.7	7.9	1.5	22.5	22.5	72.7	12.1	5.1	5.1	2.5		10			
SR2	Misty	Moderate	19:11	4.0	Middle	-	0.1	249	-		-		-	_	-		-	5.1	-	2.8	-	9	821458	814158
3112	iviisty	Woderate	19.11	4.0	Wildule	-	0.1	248	-	-	-	-	-	_	-	-	-		-	2.0	-	9	02 1430	014130
					Bottom	3.0	0.1	258	26.6	26.6	7.9	7.9	23.4	23.4	73.4	73.5	5.2	5.2	3.0		8			
					Bottom	3.0	0.1	261	26.6	20.0	7.9	1.5	23.4	23.4	73.5	73.3	5.2	3.2	3.0		7			
					Surface	1.0	0.2	318	27.3	27.3	7.9	7.9	23.6	23.6	80.9	80.9	5.6		3.7		4			
					Surface	1.0	0.2	316	27.3	27.5	7.9	1.5	23.6	23.0	80.9	00.9	5.6	5.5	3.8		4			
SR3	Cloudy	Rough	19:29	8.4	Middle	4.2	0.2	317	27.1	27.1	7.9	7.9	25.9	25.9	77.8	77.9	5.4	0.0	6.4	5.5	6	5	822137	807548
0110	Cloudy	rtougn	13.23	0.4	Wildele	4.2	0.3	323	27.1	27.1	7.9	1.5	25.9	20.0	77.9	11.5	5.4		6.3	] 5.5	6	٠ ا	022137	007540
					Bottom	7.4	0.2	307	27.1	27.1	8.0	8.0	26.6	26.6	79.1	79.1	5.4	5.4	6.4		6			
					Dottom	7.4	0.2	299	27.1	27.1	8.0	0.0	26.7	20.0	79.1	73.1	5.4	5.4	6.4		6			
					Surface	1.0	0.0	173	27.3	27.3	8.0	8.0	26.7	26.7	81.0	81.0	5.5		3.3		9			
					Curidoo	1.0	0.0	173	27.3	27.0	8.0	0.0	26.7	20.7	80.9	01.0	5.5	5.5	3.3	1	6			
SR4A	Cloudy	Moderate	21:07	9.1	Middle	4.6	0.0	180	27.2	27.2	8.0	8.0	27.1	27.1	78.4	78.4	5.4	0.0	4.1	4.9	11	9	817168	807794
J	Journ					4.6	0.0	185	27.2		8.0	0.0	27.1		78.3		5.4		4.1	1	10	Ĭ	555	3354
					Bottom	8.1	0.0	161	27.0	27.0	8.0	8.0	27.5	27.5	76.4	76.5	5.2	5.2	7.3	1	10			
					20	8.1	0.0	160	27.0	2	8.0		27.5		76.5		5.2	0.2	7.3		9			
					Surface	1.0	-	-	26.8	26.8	7.9	7.9	21.5	21.5	72.9	72.9	5.2		3.6		9			
						1.0	-	-	26.8	20.0	7.9		21.5		72.9		5.2	5.2	3.6	1	9			
SR8	Misty	Moderate	18:43	4.6	Middle	-	-	-	-	_	-	_	-	_	-	_	-	0.2	-	3.8	-	9	820391	811616
55						-	-	-	-		-		-		-		-		-	1 5.5	-	_	020001	3
					Bottom	3.6	-	-	26.9	26.9	7.9	7.9	23.0	23.0	74.3	74.4	5.2	5.2	4.0	1	9			
						3.6	-	-	26.9	20.0	7.9		23.0	20.0	74.4		5.2	0.2	4.0		8			

DA: Depth-Average

Water Quality Monitoring Results on 19 September 23 during Mid-Ebb Tide

water Quar	ity worms	orning recou	113 011		19 September 25	daring wild	LDD Hac	<u>'</u> _																
Monitoring	Weather	Sea	Sampling	Water	Sampling Dept	h (m)	Current Speed	Current	Water Te	emperature (°C)	pН		Salini	ity (ppt)		aturation (%)	Dissol Oxyg		Turbidity	/(NTU)	Suspende (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Gampling Dept	()	(m/s)	Direction	Value	Average	Value Av	/erage	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.4	195	28.1	28.1	8.0	8.0	21.7	21.7	83.9	84.0	5.8		5.8		7			
					Surface	1.0	0.4	192	28.1	20.1	8.0	0.0	21.7	21.7	84.0	04.0	5.8	5.7	5.8	1	7			
C1	Cloudy	Moderate	15:13	8.2	Middle	4.1	0.3	198	27.0	27.0	8.0		30.3	30.3	81.6	81.6	5.5	5.7	8.3	7.9	7	7	815608	804225
	Cloudy	Woderate	13.13	0.2	ivildule	4.1	0.4	196	27.0	27.0	8.0	0.0	30.3	30.3	81.6	01.0	5.5		8.9	] '.5	6	,	013000	004223
					Bottom	7.2	0.3	193	27.0	27.0	8.0	8.0	30.2	30.2	81.8	81.9	5.5	5.5	9.2		7			
					Dottom	7.2	0.3	188	27.0	21.0	8.0	0.0	30.2	30.2	81.9	01.3	5.5	5.5	9.6		6			
					Surface	1.0	0.1	152	28.2	28.2	7.8	7.8	19.6	19.6	71.8	71.8	5.0		3.0		5			
					Surface	1.0	0.0	157	28.2	20.2	7.8	7.0	19.6	19.0	71.7	71.0	5.0	5.0	3.2		4			
C2	Cloudy	Rough	13:36	11.3	Middle	5.7	0.0	177	28.0	28.0	7.8	7.8	22.4	22.4	70.6	70.7	4.9	5.0	6.4	6.5	4	4	825664	806922
02	Cloudy	Rough	13.30	11.5	ivildule	5.7	0.0	173	28.0	20.0	7.8		22.4	22.4	70.7	10.1	4.9		6.2	] 0.5	4	4	023004	000922
					Bottom	10.3	0.0	179	27.8	27.9	7.9		24.3	24.3	70.8	70.8	4.9	4.9	10.2		4			
					Dottom	10.3	0.0	176	28.0	21.5	7.9	7.5	24.2	24.0	70.7	70.0	4.8	4.5	10.3		4			
					Surface	1.0	0.3	78	27.9	27.9	7.9		22.9	23.0	76.8	76.8	5.3		1.0		6			
					Ouriacc	1.0	0.4	83	27.9	21.5	7.9		23.0	25.0	76.8	70.0	5.3	5.3	1.0	1	6			
СЗ	Sunny	Moderate	14:37	11.0	Middle	5.5	0.3	93	27.3	27.3	8.0		24.7	24.7	76.3	76.3	5.3	0.0	1.3	1.5	6	6	822115	817806
	Outliny	Woderate	14.57	11.0	ivilduic	5.5	0.3	88	27.2	21.5	8.0		24.7	24.1	76.2	70.5	5.3		1.3	1.5	6	U	022113	017000
					Bottom	10.0	0.4	88	26.9	26.9	8.0	8.0	26.9	26.9	75.6	75.6	5.2	5.2	2.0		5			
					Bottom	10.0	0.3	89	26.9	20.0	8.0	0.0	26.9	20.0	75.6	70.0	5.2	0.2	2.0		6			
					Surface	1.0	0.2	202	27.9	27.9	8.0	8.0	22.1	22.1	83.3	83.4	5.8		8.0		5			
					0411400	1.0	0.2	197	27.9	27.0	8.0		22.2		83.4	00.1	5.8	5.8	8.2	1	5			
IM1	Cloudy	Moderate	14:46	7.2	Middle	3.6	0.2	172	27.7	27.7	8.0	8.0	23.2	23.2	84.2 84.3	84.3	5.8 5.8	0.0	9.0	9.3	5	5	818352	806439
	o.ouu,	moderate			madio	3.6	0.3	168	27.6		8.0		23.2	20.2		00			10.0	] 0.0	6	ŭ	0.0002	000.00
					Bottom	6.2	0.2	194	27.3	27.3	8.0		28.1	28.1	79.4	79.4	5.4	5.4	10.5	1	6			
						6.2	0.1	196	27.3		8.0		28.1		79.4		5.4		10.2		5			
					Surface	1.0	0.2	177	27.9	27.9	8.0	8.0	22.3	22.3	84.4	84.5	5.8		5.1	1	5			
						1.0	0.2	178	27.8		8.0		22.3		84.6		5.9	5.8	5.3	1	5			
IM2	Cloudy	Moderate	14:41	7.4	Middle	3.7	0.2	200	27.4	27.4	8.0	8.0	26.9	26.9	83.6 83.3	83.5	5.7		7.2	8.3	5	5	819183	806244
	,					3.7	0.2	195	27.4		8.0		26.9				5.7		7.8		5	-		
					Bottom	6.4	0.2	203	27.3	27.3	8.0		27.6	27.6	81.3	81.3	5.5	5.5	12.1	1	4			
						6.4	0.2	210	27.3		8.0		27.6		81.3	•	5.5		12.1		5			
					Surface	1.0	0.2	93	28.5	28.5	7.8	7.8	17.8	17.8	75.5	75.6	5.3		3.1	4	4			
						1.0	0.1	92	28.5		7.8		17.8		75.7		5.3	5.4	3.2	4	5			
IM7	Cloudy	Rough	14:05	8.6	Middle	4.3	0.1	105	28.1	28.1	7.9		20.5	20.5	77.1	77.0	5.4		3.7	4.6	5	5	821368	806843
	<i>'</i>	3				4.3	0.1	110	28.1		7.9		20.5		76.9	-	5.4		3.9	4	5			
					Bottom	7.6	0.1	118	27.8	27.8	7.9		24.6	24.6	75.3	75.3	5.2	5.2	6.7	4	6			
						7.6	0.2	121	27.8		7.9		24.6		75.3		5.2		6.8	1	6			

DA: Depth-Averaged

Water Quality Monitoring Results on

19 September 23 during Mid-Ebb Tide

water Quar		<u> </u>			19 September 23	aaring iina																		
Monitoring	Weather	Sea	Sampling	Water	Sampling Deat	h (m)	Current Speed	Current	Water Te	emperature (°C)	рŀ	н	Salin	ity (ppt)		aturation %)	Dissol Oxyg		Turbidity	(NTU)	Suspende (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling Dept	n (m)	(m/s)	Direction	Value	Average	Value A	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.2	97	27.9	27.9	7.8	7.8	15.9	15.9	68.1	68.0	4.9		2.2		4			
					Odriacc	1.0	0.3	96	27.9	21.5	7.8	7.0	15.9	10.0	67.9	00.0	4.9	4.9	2.1		6			
IM10	Sunny	Moderate	13:40	9.6	Middle	4.8	0.3	96	27.3	27.3	7.9	7.9	19.9	19.9	67.0	67.0	4.8	4.0	2.7	2.8	5	6	822236	809833
						4.8	0.2	101	27.2		7.9		19.9		67.0		4.8		2.7		6	-		
					Bottom	8.6	0.2	89	27.3	27.4	7.9	7.9	23.7	23.6	67.2	67.4	4.7	4.7	3.4		6			
						8.6	0.2	85	27.4		7.9		23.6		67.5		4.7		3.5		7			
					Surface	1.0	0.2	74	27.5	27.5	7.8	7.8	19.9	20.0	68.7	68.7	4.9		1.0		8			
						1.0	0.2	79	27.5		7.8		20.0		68.7		4.9	4.9	1.0	-	6			
IM11	Sunny	Moderate	13:45	7.6	Middle	3.8 3.8	0.2	72	27.3	27.3	7.9	7.9	21.2	21.2	68.5 68.5	68.5	4.8		1.9 1.9	1.9	6 5	6	821514	810535
						6.6	0.2	78 72	27.3 27.3				_				4.8		2.9	-	5			
					Bottom	6.6	0.3	76	27.3	27.3	7.9	7.9	22.1	22.1	68.9 69.1	69.0	4.8	4.8	2.9	1	4			
			<del>                                     </del>			1.0	0.2	95	27.9		7.8		18.2		72.4		5.1		1.0		5			
					Surface	1.0	0.2	88	27.9	27.9	7.8	7.8	18.3	18.2	72.4	72.4	5.1		1.0	1	5			
						3.6	0.3	113	27.6		7.9		20.6		72.2		5.1	5.1	1.9	1	6			
IM12	Sunny	Moderate	13:49	7.2	Middle	3.6	0.2	116	27.6	27.6	7.9	7.9	20.6	20.6	72.1	72.2	5.1		2.0	1.8	5	5	821157	811514
					_	6.2	0.2	84	27.3		7.9		22.0		72.3		5.1		2.6	1	6			
					Bottom	6.2	0.3	90	27.4	27.4	7.9	7.9	22.0	22.0	72.4	72.4	5.1	5.1	2.5	1	5			
						1.0	0.0	14	27.8		7.9		19.5		74.0		5.2		3.0		3			
					Surface	1.0	0.0	9	27.7	27.8	7.9	7.9	19.5	19.5	73.7	73.9	5.2		3.0	1	4			
0044	0	Madanta	44.00	4.0	A.C.J.II.	2.0	0.1	22	- 1				-		-		-	5.2	-		-		040000	040050
SR1A	Sunny	Moderate	14:03	4.0	Middle	2.0	0.1	27	-	-	-	-	-	-	-	-	-		-	3.6	-	4	819982	812653
					Bottom	3.0	0.0	24	27.4	27.5	7.9	7.0	22.3	22.3	72.4	72.5	5.1	5.1	4.3	1	4			
					Bollom	3.0	0.0	25	27.5	21.5	7.9	7.9	22.2	22.3	72.6	72.5	5.1	5.1	4.2		4			
					Surface	1.0	0.2	48	28.3	28.3	7.8	7.8	18.2	18.2	76.2	76.3	5.4		1.1		5			
					Suriace	1.0	0.2	42	28.2	20.5	7.8	7.0	18.3	10.2	76.3	70.5	5.4	5.4	1.1		6			
SR2	Sunny	Moderate	14:21	4.4	Middle	-	0.2	65	-	_	-	_	-	_	-	_	-	5.4	-	1.3	-	6	821481	814187
OI LE	Culliny	Moderate	17.21	7.7	IVIIGGIO	-	0.2	63	-		-		-		-		-		-	1.0	-	Ü	021401	014107
					Bottom	3.4	0.1	69	28.1	28.1	7.8	7.8	20.5	20.4	77.3	77.5	5.4	5.4	1.4		5			
					5000000	3.4	0.2	68	28.1	20	7.8		20.4	20.1	77.6		5.4		1.4		6			
					Surface	1.0	0.1	127	28.3	28.3	7.7	7.7	19.7	19.7	70.4	70.4	4.9		2.1		4			
						1.0	0.1	132	28.3		7.7		19.7		70.4		4.9	4.9	2.1		5			
SR3	Cloudy	Rough	13:57	8.7	Middle	4.4	0.2	118	28.0	28.0	7.8	7.8	21.7	21.7	70.1	70.1	4.9		4.4	5.1	5	5	822128	807566
	•	•				4.4	0.2	123	28.0		7.8		21.7		70.1		4.9		4.5		4			
					Bottom	7.7	0.2	159	27.9	27.9	7.8	7.8	23.1	23.1	72.0	72.1	5.0	5.0	8.6	-	5			
						7.7	0.1	155	27.9		7.8		23.1		72.1		5.0		8.7		4			<u> </u>
					Surface	1.0 1.0	0.0	71 66	28.5 28.5	28.5	7.9	7.9	20.4	20.3	81.9 82.1	82.0	5.7 5.7		3.9		8			
						4.7	0.0	75										5.4	4.1	-				
SR4A	Cloudy	Moderate	15:42	9.3	Middle	4.7	0.0	67	27.7	27.7	7.9	7.9	24.3	24.4	73.2 73.1	73.2	5.0		6.4	7.0	7 8	7	817197	807813
						8.3	0.0	69	27.7		7.9		25.0		73.1		5.0		10.2	1	6			
					Bottom	8.3	0.0	71	27.7	27.7	7.9	7.9	25.0	25.0	73.4	73.3	5.0	5.0	10.2	1	7			
			<u> </u>			1.0	-		28.1		7.8		17.3		71.6		5.1		2.8		3			
					Surface	1.0	-	-	28.0	28.1	7.8	7.8	17.2	17.2	71.4	71.5	5.1		2.8		4			
						-	-	-	-				-		-		-	5.1	-		-			
SR8	Sunny	Moderate	13:53	4.1	Middle	-	-	-	-	-	_	-	-	-	-	-	-		-	3.2	-	5	820374	811635
					D.#	3.1	-	-	27.3	07.0	7.9	7.0	22.4	00.4	71.3	74.4	5.0		3.7	1	6			
					Bottom	3.1	-	-	27.3	27.3	7.9	7.9	22.4	22.4	71.4	71.4	5.0	5.0	3.6	1	7			
A: Donth Aver						0.1			21.0		7.0				7 1.4		5.0		0.0		,			

DA: Depth-Averaged

Water Quality Monitoring Results on 19 September 23 during Mid-Flood Tide

water Quai	ity wonit	oning Resu	แร บก		19 September 23	auring wia-	rioou ii	ue															
Monitoring	Weather	Sea	Sampling	Water	Sampling Dept	h (m)	Current Speed	Current	Water Te	emperature (°C)	pН		Salinity (pp	t) Di	Saturation (%)	Disso Oxy		Turbidity	/(NTU)	Suspende (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling Dept	ii (iii <i>)</i>	(m/s)	Direction	Value	Average	Value Aver	age Va	alue Avera	age Va	ue Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.4	21	27.8	27.8	7.9 7.	2	2.1 22.	, 80	.4 80.4	5.6		6.2		5			
					Surface	1.0	0.3	20	27.8	21.0	7.9	2	2.1	80	.4	5.6	- 0	6.1	1	6			
0.4	01		00.40	0.0	Middle	4.0	0.4	48	27.1	07.4	8.0	2	9.7	, 81	.3 81.3	5.5	5.6	8.5	٦,,	5	-	815628	804252
C1	Cloudy	Moderate	09:13	8.0	Ivildale	4.0	0.4	45	27.0	27.1	8.0		9.8 29.	81		5.5		8.6	9.1	5	5	815628	804252
					5 "	7.0	0.4	55	27.0	07.0	8.0	. 30	0.5	_ 81	.0 0.4	5.5		12.5	1	5			
					Bottom	7.0	0.4	51	27.0	27.0	8.0		0.5	5 81	.0 81.1	5.5	5.5	12.9	1	4			
					0.1	1.0	0.4	353	28.5		7.7	_ 10	6.6	. 71	.8	5.1		2.8		4			
					Surface	1.0	0.4	356	28.5	28.5	7.7 7.	1	6.5	71		5.1	5.1	2.8	1	4			
00	01		40.40	44.0	NAC-J-II-	5.5	0.5	10	28.0	00.0	7.0	. 2	1.3	71	.8 71.9	5.0	5.1	4.3	1	5		005007	000040
C2	Cloudy	Moderate	10:48	11.0	Middle	5.5	0.5	9	28.0	28.0	7.8 7.		1.3	71	.9 /1.9	5.0		4.4	4.8	4	4	825667	806942
					D.#	10.0	0.5	358	27.9	27.9	7.8	2	3.0	, 73	.4 73.5	5.1	5.1	6.9	1	5			
					Bottom	10.0	0.5	357	27.9	27.9	7.8	2	3.2 23.	73		5.1	5.1	7.2	1	4			
					Surface	1.0	0.4	274	27.1	27.1	8.0 8.	2	5.2	2 74	.4 74.4	5.1		1.9		5			
					Surface	1.0	0.5	273	27.1	27.1	8.0	2	5.3	74	.3 74.4	5.1	5.1	2.0	1	4			
СЗ	Sunny	Moderate	09:13	11.0	Middle	5.5	0.5	249	26.8	26.8	8.0 8.	20	6.9 26.	9 73	.4 73.4	5.1	J. I	3.0	3.2	5	5	822100	817808
03	Suring	Woderate	09.13	11.0	Middle	5.5	0.5	253	26.8	20.0	8.0	2	6.9	73	.4	5.0		3.0	] 3.2	4	3	022100	017000
					Bottom	10.0	0.4	261	26.6	26.6	8.0 8.		8.1 28.	1 73	.0 73.0	5.0	5.0	4.8	1	6			
					Dottom	10.0	0.5	265	26.6	20.0	8.0	2	8.1	73	.0	5.0	3.0	4.8		6			
					Surface	1.0	0.3	11	27.7	27.7	7.9 7.	2	3.7	7 76	.7 76.6	5.3		8.5		7			
					Curiade	1.0	0.3	7	27.7	27.7	7.9	2	3.7	76	.5	5.3	5.2	8.5		6			
IM1	Cloudy	Moderate	09:40	6.9	Middle	3.5	0.3	1	27.6	27.6	7.9 7.	2	5.3	3 75	.0 75.0	5.1	0.2	9.4	9.2	5	6	818346	806461
	O.Guay	moderate	00.10	0.0	aaio	3.5	0.3	355	27.6	27.0	7.9	2	5.3	75	.0	5.1		9.4	J 0.2	6	ŭ	0.00.0	000.0.
					Bottom	5.9	0.3	2	27.5	27.5	7.9 7.		6.3	3 75	.8 75.8	5.2	5.2	9.9	1	6			
					20110111	5.9	0.3	0	27.5	27.0	7.9	2	6.3	75	.8	5.2	0.2	9.7		5			
					Surface	1.0	0.3	2	27.7	27.7	7.9 7.		3.8	8 76		5.3		7.9	1	4			
						1.0	0.3	1	27.7		7.9	2	3.8	76	.5	5.3	5.3	7.8	1	5			
IM2	Cloudy	Moderate	09:45	7.0	Middle	3.5	0.2	355	27.6	27.6	7.9 7.		5.0 25.	1 76		5.2		8.8	9.0	5	5	819165	806239
						3.5	0.2	349	27.6		7.9	2	5.1	76	.3	5.2		8.4	1	4			
					Bottom	6.0	0.3	37	27.4	27.4	8.0 8.0	2	6.4	4 77	.6 77.6	5.3	5.3	10.7	4	5			
						6.0	0.2	36	27.4			2	6.4			5.3		10.3		6			
					Surface	1.0	0.3	16	28.7	28.7	7.7 7.	7 1	7.0 7.0	0 74	74.2	5.2		3.5	4	3			
						1.0	0.3	18	28.7							5.2	5.3	3.5	4	4			
IM7	Cloudy	Moderate	10:20	8.1	Middle	4.1	0.2	3	28.1	28.1	7.9 7.	9   2	0.7	7 76	76.8	5.4		4.2	4.8	4	3	821329	806822
						4.1	0.3	3	28.1		7.9		0.7			5.4		4.2	4	3			
					Bottom	7.1	0.2	13	27.8	27.8	7.9 7.9		4.1 24.	1 76	76.8	5.3	5.3	6.5	4	3			
						7.1	0.2	12	27.8		7.9	2	4.1	76	.8	5.3		6.6	1	2			

DA: Depth-Averaged

Water Quality Monitoring Results on

19 September 23 during Mid-Flood Tide

Water Quar	ity wonin	orning Resu	1113 011		19 September 23	during wild-	1 100a 11	uc																
Monitoring	Weather	Sea	Sampling	Water	Sampling Dept	h (m)	Current Speed	Current	Water Te	mperature (°C)	рŀ	1	Salin	ity (ppt)		aturation (%)	Dissol Oxyg		Turbidity	(NTU)	Suspende (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling Dept	n (m)	(m/s)	Direction	Value	Average	Value A	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.4	287	28.0	28.0	7.8	7.8	15.5	15.5	69.0	68.9	5.0		2.3		3			
					Surface	1.0	0.4	280	27.9	20.0	7.8	7.0	15.5	13.3	68.8	00.9	5.0	4.9	2.4	]	4			
IM10	Sunny	Moderate	10:52	8.8	Middle	4.4	0.4	283	27.3	27.3	7.9	7.9	20.7	20.7	68.3	68.4	4.8	4.0	3.8	3.4	5	4	822248	809839
						4.4	0.4	289	27.3		7.9		20.7		68.4		4.8		3.9		4	•		
					Bottom	7.8	0.4	282	27.4	27.4	7.8	7.8	22.7	22.6	70.3	70.4	4.9	4.9	4.1	1	4			
						7.8	0.4	284	27.4		7.8		22.6		70.5		4.9		4.1		4			
					Surface	1.0	0.4	272	28.0	28.0	7.8	7.8	17.1	17.2	72.8	72.8	5.2		1.2	1	6			
						1.0 4.6	0.4	278	28.0		7.8		17.3		72.8		5.2	5.1	1.2	1	5			
IM11	Sunny	Moderate	10:45	9.2	Middle	4.6	0.4	301 298	27.5 27.5	27.5	7.9	7.9	22.4 22.4	22.4	72.3 72.3	72.3	5.0 5.0		2.5 2.5	2.3	3 4	4	821493	810522
						8.2	0.3	259	27.2		7.9		22.4		73.4		5.1		3.0	ł	4			
					Bottom	8.2	0.4	261	27.2	27.2	7.9	7.9	22.5	22.5	73.5	73.5	5.1	5.1	3.0	1	3			
			<del> </del>			1.0	0.4	298	28.8		7.7		15.8		74.9		5.3		1.1		4			<u> </u>
					Surface	1.0	0.4	297	28.8	28.8	7.7	7.7	15.9	15.9	74.9	74.9	5.3		1.1	1	3			
						4.2	0.4	283	28.0		7.8		17.7		74.5		5.3	5.3	1.5	†	5			
IM12	Sunny	Moderate	10:37	8.4	Middle	4.2	0.5	275	28.0	28.0	7.8	7.8	17.6	17.7	74.6	74.6	5.3		1.4	1.4	4	4	821184	811524
					D. //	7.4	0.4	276	27.8	07.0	7.9		19.6	40.0	76.0	70.4	5.4		1.8	İ	4			
					Bottom	7.4	0.4	281	27.8	27.8	7.9	7.9	19.6	19.6	76.1	76.1	5.4	5.4	1.8	1	5			
					Surface	1.0	0.0	204	27.5	07 F	7.9	7.0	20.0	20.0	72.7	70.7	5.1		4.0		4			
					Surface	1.0	0.0	201	27.5	27.5	7.9	7.9	20.0	20.0	72.7	72.7	5.1	5.1	4.0	1	4			
SR1A	Sunny	Moderate	09:48	4.0	Middle	2.0	0.1	196	-		-		-		-		-	J. I	-	4.5	-	3	819981	812653
SICIA	Julily	Woderate	09.40	4.0	ivildule	2.0	0.1	196	-	-	-		-	-	-	-	-		-	] 4.5	-	3	019901	012033
					Bottom	3.0	0.0	221	27.3	27.3	7.9	7.9	22.6	22.6	73.2	73.3	5.1	5.1	5.1	]	3			
					50000111	3.0	0.0	221	27.3	21.10	7.9	7.0	22.6	22.0	73.4	. 0.0	5.1	0	5.0		2			
					Surface	1.0	0.1	235	27.4	27.4	7.9	7.9	20.8	20.8	72.3	72.3	5.1		3.5	1	3			
						1.0	0.1	239	27.3		7.9		20.8		72.2		5.1	5.1	3.5		3			
SR2	Sunny	Moderate	09:34	5.4	Middle	-	0.1	215	-	-	-	-	-	-	-	-	-		-	4.5	-	3	821441	814174
						-	0.2	207	-		-		-		-		-		-	-	-			
					Bottom	4.4	0.2	248	26.9	26.9	7.9	7.9	24.7	24.7	71.6	71.7	5.0	5.0	5.5	ł	2			
						4.4 1.0	0.1	243 338	26.9		7.9		24.7		71.7		5.0		5.6 2.5		3			
					Surface	1.0	0.4	338	28.4	28.4	7.7	7.7	18.9 18.9	18.9	71.0 71.0	71.0	5.0		2.5	1	3			
						4.6	0.3	339	28.0		7.8		21.6		69.9		4.9	5.0	6.4	1	3			
SR3	Cloudy	Moderate	10:27	9.1	Middle	4.6	0.4	344	28.0	28.0	7.8	7.8	21.6	21.6	69.9	69.9	4.9		6.9	6.9	3	3	822162	807552
						8.1	0.4	356	27.8		7.9		23.8		75.3		5.2		11.3	†	3			
					Bottom	8.1	0.4	354	27.8	27.8	7.9	7.9	23.8	23.8	75.4	75.4	5.2	5.2	11.6	t	3			
			İ	İ	0	1.0	0.0	175	28.1	00.4	7.8	7.0	19.9	40.0	77.9	70.0	5.5		8.8		5		İ	İ
					Surface	1.0	0.1	172	28.1	28.1	7.8	7.8	20.0	19.9	78.0	78.0	5.5	- 4	8.2	1	6			
SR4A	Cloudy	Moderate	00.50	0.0	Middle	4.5	0.0	160	27.9	27.0	7.8	7.0	21.8	21.0	74.8	74.8	5.2	5.4	9.2	1 04	4	5	017104	807801
SK4A	Cloudy	Moderate	08:52	9.0	ivildale	4.5	0.0	160	27.9	27.9	7.8	7.8	21.8	21.8	74.7	74.0	5.2		9.6	9.4	5	э	817181	007001
					Bottom	8.0	0.0	165	27.8	27.8	7.8	7.8	24.3	24.2	73.2	73.3	5.0	5.0	10.5	]	3			
					DULLUIII	8.0	0.0	159	27.8	21.0	7.8	1.0	24.2	24.2	73.3	13.3	5.0	5.0	10.2		4			
					Surface	1.0	-	-	28.0	28.0	7.9	7.9	20.1	20.2	73.3	73.3	5.1		1.9		5			
					Guilacc	1.0	-	-	28.0	20.0	7.9	1.0	20.2	20.2	73.3	70.0	5.1	5.1	1.9	1	4			
SR8	Sunny	Moderate	10:28	4.2	Middle	-	-	-	-	-		_	-	_	-	_	-	0.1	-	2.4	-	5	820372	811617
5.15			25			-	-	-	-		-		-		-		-		-		-	ŭ	0200.2	0
					Bottom	3.2	-	-	28.0	28.0	7.8	7.8	20.7	20.7	75.7	75.8	5.3	5.3	3.0		4			
DA: Donth Avor						3.2	-	-	28.0		7.8	-	20.7		75.9		5.3		3.0		5			

DA: Depth-Averaged

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

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

Water Quality Monitoring Results on 21 September 23 during Mid-Ebb Tide

Monitoring	Weather	Sea	Sampling	Water	Sampling Dept	h (m)	Current Speed	Current	Water Te	emperature (°C)	1	эΗ	Salin	ity (ppt)	DO S	aturation (%)	Disso Oxy		Turbidity	(NTU)	Suspende (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling Dept	()	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.2	219	28.8	28.8	8.0	8.0	14.8	14.8	84.0	83.9	6.0		2.2		3			
					Curiuoc	1.0	0.1	224	28.8	20.0	8.0	0.0	14.8	14.0	83.8	00.0	6.0	5.4	2.2		3			
C1	Cloudy	Moderate	17:31	8.4	Middle	4.2	0.2	213	27.4	27.4	7.9	7.9	22.2	22.2	68.1	68.1	4.8	0.4	6.1	6.3	3	3	815610	804231
01	Oloudy	Woderate	17.01	0.4	Wilddie	4.2	0.2	217	27.4	27.3	7.9	7.0	22.2		68.1	00.1	4.8		6.1	] 0.0	2	ŭ	010010	004201
					Bottom	7.4	0.2	229	27.3	27.3	7.9	7.9	22.7	22.7	67.6	67.7	4.7	4.7	11.0	_	2			
					25ttom	7.4	0.2	224	27.3	21.10	7.9		22.7		67.8	01	4.7		10.1		3			
					Surface	1.0	0.1	178	28.9	28.9	7.8	7.8	10.0	10.0	79.6	79.6	5.8		4.1		3			
						1.0	0.1	179	28.9	20.0	7.8		10.1		79.5		5.8	5.3	4.1		3			
C2	Cloudy	Rough	15:50	12.0	Middle	6.0	0.1	194	27.7	27.7	7.9	7.9	20.9	20.9	69.1	69.1	4.8	0.0	8.9	7.4	2	3	825676	806959
02	O.ouuy	. toug	10.00	.2.0	- Initialis	6.0	0.1	193	27.7		7.9		20.9		69.0		4.8		8.2	1	3	ŭ	0200.0	000000
					Bottom	11.0	0.1	199	27.6	27.6	7.9	7.8	21.9	21.9	69.1	69.2	4.8	4.8	9.2	1	3			
						11.0	0.1	200	27.6	27.10	7.8	7.0	21.9	20	69.2	00.2	4.8	0	9.8		3			
					Surface	1.0	0.1	52	24.4	24.4	7.9	7.9	22.0	21.9	100.4	100.4	7.4		2.9	1	3			
						1.0	0.1	45	24.4		7.9		21.9		100.4		7.4	7.2	2.9		2			
СЗ	Sunny	Moderate	16:35	10.2	Middle	5.1	0.1	51	23.6	23.6	7.9	7.9	23.8	23.7	94.6	94.7	7.0		3.0	2.7	2	2	822089	817783
00	Curiny	Moderate	10.00	10.2	Wilddie	5.1	0.2	53	23.6	20.0	7.9	7.0	23.6	20.1	94.8	04.7	7.0		3.1		3	-	022000	011100
					Bottom	9.2	0.1	86	23.3	23.3	7.9	7.9	26.5	26.5	91.4	91.5	6.7	6.7	2.1	1	2			
						9.2	0.1	89	23.3		7.9		26.6		91.5	•	6.7	• • • •	2.1		2			
					Surface	1.0	0.1	179	28.3	28.3	8.0	8.0	15.6	15.6	86.0 86.0	86.0	6.1		3.7	1	2			
						1.0	0.1	180	28.3		8.0		15.6				6.1	5.5	3.7	1	2			
IM1	Cloudy	Moderate	17:07	7.2	Middle	3.6	0.2	210	27.4	27.4	7.9	7.9	22.5	22.5	69.7	69.7	4.9	0.0	6.9	5.0	3	3	818351	806456
	,					3.6	0.2	214	27.4		7.9		22.5		69.7		4.9		6.7	1	3	- 1		
					Bottom	6.2	0.2	195	27.2	27.2	7.9	7.9	24.1	24.2	70.9	71.0	4.9	4.9	4.4	1	5			
					=	6.2	0.2	197	27.2		7.9		24.2		71.1		4.9		4.3		4			
					Surface	1.0	0.2	193	28.2	28.2	8.0	8.0	15.8	15.8	84.9 84.9	84.9	6.1		3.2	1	3			
						1.0	0.2	197	28.2		8.0		15.7				6.1	5.7	3.2		3			
IM2	Cloudy	Moderate	17:00	7.4	Middle	3.7	0.1	192	27.5	27.5	8.0	8.0	21.8	21.8	74.7	74.7	5.2		4.4	6.0	3	3	819188	806249
	,					3.7	0.1	190	27.5		8.0		21.8		74.7		5.2		4.4	1	3	-		
					Bottom	6.4	0.1	218	26.9	26.9	8.0	8.0	25.9	25.9	71.2	71.3	4.9	4.9	10.8	1	3			
						6.4	0.1	217	26.9		8.0		25.9		71.3		4.9		10.2		4			
					Surface	1.0	0.1	188	28.3	28.3	7.9 7.9	7.9	13.6	13.6	76.0 76.0	76.0	5.5		3.6	1	3			
						1.0	0.1	182	28.3				13.6				5.5	5.4	3.6	4	4			
IM7	Cloudy	Rough	16:24	8.4	Middle	4.2	0.1	163	28.0	28.0	7.9	7.9	17.1	17.1	75.0	75.1	5.3		3.0	5.2	3	3	821337	806833
*****		3				4.2	0.0	163	28.0		7.9		17.1		75.2		5.4		3.0	1	3	-		
					Bottom	7.4	0.1	179	27.3	27.3	8.0	8.0	23.2	23.2	75.2	75.2	5.2	5.2	9.6	1	3			
DA: Denth-Aver						7.4	0.1	176	27.3		8.0		23.3		75.2		5.2		8.7		2		<u> </u>	

DA: Depth-Averaged

Water Quality Monitoring Results on 21 September 23 during Mid-Ebb Tide

	,	oning Resu	110 011		Zi September 23	auring wild		<u> </u>																
Monitoring	Weather	Sea	Sampling	Water	Committee Desir	No. (res)	Current Speed	Current	Water Te	emperature (°C)	pН	1	Salini	ity (ppt)		aturation (%)	Disso Oxy	olved gen	Turbidity	(NTU)	Suspende (mg/		Coordinate	Coordinate
Station	Condition	Condition	Time	Depth (m)	Sampling Dep	in (m)	(m/s)	Direction	Value	Average	Value A	verage	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	HK Grid (Northing)	HK Grid (Easting)
			Ì		Surface	1.0	0.0	79	23.5	23.5	7.9	7.9	18.5	18.5	82.5	82.4	6.3		4.0		3			
					Surface	1.0	0.0	76	23.5	23.3	7.9	1.5	18.6	10.5	82.3	02.4	6.3	6.0	4.0		4			
IM10	Sunny	Moderate	15:11	9.0	Middle	4.5	0.0	72	23.0	23.0	7.9	7.9	25.4	25.4	75.2	75.3	5.6	0.0	5.4	5.2	2	3	822253	809841
	Outliny	Moderate	10.11	0.0	Wildele	4.5	0.0	78	23.0	20.0	7.9	7.0	25.5	20.4	75.3	70.0	5.6		5.4	0.2	4	•	OZZZZOO	000041
					Bottom	8.0	0.1	59	23.2	23.2	7.9	7.9	25.6	25.6	75.9	76.1	5.6	5.6	6.1		3			
						8.0	0.0	58	23.2		7.9		25.6		76.2		5.6		6.0		2			
					Surface	1.0	0.1	82	23.4	23.4	7.9	7.9	18.3	18.3	86.5	86.2	6.6		4.3		2			
						1.0	0.1	78	23.3		7.9		18.3		85.9		6.6	6.3	4.3		2			
IM11	Sunny	Moderate	15:41	6.8	Middle	3.4	0.1	74	23.1	23.1	7.9	7.9	25.5	25.5	80.0	80.1	5.9		6.0	5.6	3	3	821483	810557
						3.4 5.8	0.0	73 94	23.1		7.9		25.5		80.2		5.9		6.0 6.6	-	3			
					Bottom	5.8	0.1	94	23.1	23.1	7.9	7.9	25.6 25.6	25.6	81.4 82.2	81.8	6.0 6.1	6.1	6.6		4			
			1	1	1	1.0	0.1	110	23.3		7.9		21.8				6.1		3.2		4			
					Surface	1.0	0.1	109	23.3	23.3	7.8	7.8	22.1	21.9	81.3 81.0	81.2	6.1		3.2	1	3			
						3.5	0.1	109	23.1		7.8		25.4		80.2		5.9	6.0	4.1	-	4			
IM12	Sunny	Moderate	15:47	7.0	Middle	3.5	0.1	109	23.1	23.1	7.9	7.8	25.8	25.6	80.5	80.4	6.0		4.1	4.5	3	3	821175	811508
					_	6.0	0.1	77	23.1		7.0		25.8		80.7		6.0		6.3	ł	2			
					Bottom	6.0	0.1	83	23.1	23.1	7.9	7.9	25.8	25.8	80.9	80.8	6.0	6.0	6.3		3			
					0.1	1.0	0.0	20	23.7	00.7	70		21.2	04.4	81.5	04.5	6.1		5.0		4			
					Surface	1.0	0.1	25	23.7	23.7	7.9	7.9	21.1	21.1	81.5	81.5	6.1		5.2	i	3			
0044	0	Madana	40.00	4.0	NAC-JUIL-	2.0	0.0	10	-		-		-		-		-	6.1	-	1	-	_	040070	040000
SR1A	Sunny	Moderate	16:02	4.0	Middle	2.0	0.0	15	-	-	-	-	-	-	-	-	-		-	5.9	-	3	819976	812662
					Bottom	3.0	0.1	36	23.0	23.0	7.9	7.9	24.1	25.2	75.4	75.7	5.6	5.6	6.8	i	2			
					Bollom	3.0	0.1	37	23.0	23.0	7.9	7.9	26.3	23.2	76.0	75.7	5.6	5.0	6.8		2			
					Surface	1.0	0.1	35	23.6	23.6	7.9	7.9	21.6	21.7	84.5	84.5	6.3		3.7		3			
					Gunace	1.0	0.1	41	23.5	25.0	7.9	1.5	21.7	21.7	84.5	04.0	6.3	6.3	3.7		3			
SR2	Sunny	Moderate	16:18	4.2	Middle	-	0.1	29	-	_		_	-	-	-	_	-	0.0	-	3.5	-	3	821472	814157
0.1.2	Cunny	moderate	10.10		maaio	-	0.0	24	-		-		-		-		-		-	0.0	-	Ĭ	022	0
					Bottom	3.2	0.1	20	23.3	23.3	7.9	7.9	22.3	22.4	85.4	85.7	6.4	6.4	3.4		3			
						3.2	0.2	16	23.3		7.9		22.6		85.9		6.4		3.4		3			
					Surface	1.0	0.1	172	28.8	28.9	7.9	7.9	10.7	10.7	79.3	79.4	5.8		4.2		4			
						1.0	0.2	168	28.9		7.9		10.7		79.5		5.8	5.4	4.4		3			
SR3	Cloudy	Rough	16:17	9.2	Middle	4.6	0.1	151	27.9 27.8	27.9	7.9	7.9	19.4 19.4	19.4	70.2 70.2	70.2	5.0 5.0		3.9	6.5	3 2	3	822155	807553
						8.2	0.0	149 169			7.9								-		2			
					Bottom	8.2	0.1	173	27.8 27.8	27.8	7.9	7.9	19.8 19.9	19.8	71.1 71.2	71.2	5.0 5.0	5.0	11.3 11.5	-	2			
			1	1	1	1.0	0.1	319	28.6		8.0		15.2		86.0		6.1		3.9		4			
				1	Surface	1.0	0.0	317	28.6	28.6	8.0	8.0	15.2	15.2	86.0	86.0	6.1		4.0		4			
						4.5	0.0	323	28.0		Ω ∩		17.6		78.9		5.6	5.9	5.7	1	4			
SR4A	Cloudy	Moderate	17:58	9.0	Middle	4.5	0.0	317	28.0	28.0	8.0	8.0	17.5	17.5	78.8	78.9	5.6		5.7	6.0	3	3	817212	807812
						8.0	0.0	314	27.4		Ω Λ		22.7		72.8		5.1		8.3	1	2			
				1	Bottom	8.0	0.0	314	27.4	27.4	8.0	8.0	22.7	22.7	72.9	72.9	5.1	5.1	8.3	İ	3			
				İ	0	1.0	-	-	23.5	00.5	7.8	7.0	20.5	00.4	85.9	05.0	6.5		3.4	İ	3			
				1	Surface	1.0	-	-	23.5	23.5	7.8	7.8	20.4	20.4	85.7	85.8	6.5	٥.	3.5	İ	3			
epo l	Cummi	Moderate	15.50	4.0	Middle	-	-	-	-		-		-		-		-	6.5	-	2.	-	ا ر	020260	014604
SR8	Sunny	Moderate	15:50	4.8	Middle	-	-	-	-	-	-	-	-	-	-	-	-		-	3.8	-	3	820368	811624
				1	Bottom	3.8	-	-	23.3	23.3	7.8	7.8	24.4	24.4	79.2	79.3	5.9	5.9	4.1		2			
					DOLLOITI	3.8	-	_	23.3	23.3	7.8	1.0	24.4	24.4	79.3	18.3	5.9	5.8	4.1		3			

DA: Depth-Averaged

Water Quality Monitoring Results on 21 September 23 during Mid-Flood Tide

Monitoring	Weather	Sea	Sampling	Water	Sampling Dept		Current Speed	Current	Water Te	emperature (°C)	pН	Sa	inity (ppt)	DO S	aturation (%)	Disso Oxy		Turbidity	y(NTU)	Suspende (mg		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling Dept		(m/s)	Direction	Value	Average	Value Avera	ge Valu	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.3	26	28.1	28.1	8.0	14.9	14.9	81.3	81.3	5.9		3.5	1	3			
					Sunace	1.0	0.3	22	28.1	20.1	8.0	14.9	14.5	81.2	01.3	5.8	5.6	3.6		3			
C1	Sunny	Moderate	10:36	8.0	Middle	4.0	0.3	31	27.2	27.2	8.0	23.9		75.6	75.6	5.3	3.0	11.9	9.4	3	3	815628	804251
	Suring	Woderate	10.30	0.0	ivildule	4.0	0.3	24	27.1	21.2	8.0	23.9	23.9	75.6	75.0	5.3		11.9	] 9.4	3	3	013020	004231
					Bottom	7.0	0.2	28	27.1	27.1	8.0	24.3		75.3 75.3	75.3	5.2	5.2	12.6		3			
					Bollom	7.0	0.2	28	27.1	27.1	8.0	24.3	24.3	75.3	75.5	5.2	5.2	12.8		4			
					Surface	1.0	0.3	344	29.3	29.3	7.8	11.6		80.0	80.1	5.8		3.7		3			
					Surface	1.0	0.3	350	29.3	29.3	7.8	11.6	11.0	80.2	00.1	5.8	5.4	3.7		4			
C2	Sunny	Moderate	12:18	11.3	Middle	5.7	0.2	343	27.6	27.6	7.9 7.9	21.3		69.8	69.8	4.9	3.4	5.5	5.8	4	3	825669	806950
02	Outliny	Moderate	12.10	11.5	ivildule	5.7	0.3	347	27.6	27.0	7.9	21.4		69.8	03.0	4.9		5.7	] 5.0	3		023003	000330
					Bottom	10.3	0.3	331	27.6	27.6	7.9 7.9	21.8		70.8	70.8	4.9	4.9	8.2		3			
					20110111	10.3	0.2	335	27.6	21.10	7.9	21.8		70.8		4.9		8.2		3			
					Surface	1.0	0.4	274	22.9	22.9	7.8 7.8	25.4	25.3	79.1	79.2	5.9		2.0	_	4			
						1.0	0.4	268	22.9		7.8	25.3		79.2		5.9	5.9	1.9	_	3			
C3	Sunny	Moderate	10:36	10.6	Middle	5.3	0.4	256	22.8	22.8	7.9 7.9	27.3		80.7	80.8	5.9		2.5	2.6	3	3	822085	817804
						5.3	0.4	250	22.8		7.9	27.3	_	80.8		5.9		2.6	4	3			
					Bottom	9.6	0.3	246	22.9 22.9	22.9	7.9 7.9	27.3		85.9 86.7	86.3	6.3	6.4	3.5	-	3			
						9.6	0.4	242								6.4		3.4	_				
					Surface	1.0	0.2	5 7	27.9 27.9	27.9	7.9 7.9	17.6 17.6		79.1 79.0	79.1	5.6 5.6		3.8	-	6			
						3.1	0.2	10	27.8		8.0	20.6		77.5		5.4	5.5	3.6	+	4			
IM1	Sunny	Moderate	10:58	6.2	Middle	3.1	0.2	11	27.8	27.8	8.0	20.6		77.5	77.5	5.4		3.6	3.9	3	4	818334	806439
						5.2	0.2	3	27.3		7.0	22.1		73.8		5.1		4.2	┨	3			
					Bottom	5.2	0.1	2	27.3	27.3	7.9 7.9	23.1		73.9	73.9	5.2	5.2	4.3	1	3			
						1.0	0.2	315	27.9		8.0	19.6	+			5.6		3.6		3			
					Surface	1.0	0.2	317	27.9	27.9	8.0	18.6	18.6	79.1 79.1	79.1	5.6		3.6	1	3			
13.40	0	Madanta	44.00	0.7	NAC-JUIL-	3.4	0.2	319	27.6	07.0	8.0	10.7		79.0	70.0	5.6	5.6	3.8	1	2		040000	000040
IM2	Sunny	Moderate	11:06	6.7	Middle	3.4	0.1	314	27.6	27.6	8.0	19.7	19.7	79.0	79.0	5.6		3.8	6.6	3	3	819202	806249
					D.#	5.7	0.2	329	27.0	27.0	8.0	25.9	25.9	73.5	73.6	5.1	- 4	12.8		3			
					Bottom	5.7	0.2	326	27.0	27.0	8.0	26.0	25.9	73.6	73.0	5.1	5.1	12.3		3			
					Surface	1.0	0.2	332	28.6	28.6	7.9 7.9	9.7	9.6	79.7	79.7	5.9		3.8		3			
					Sunace	1.0	0.2	338	28.6	20.0	7.9	9.6	9.0	79.7	19.1	5.9	5.5	3.9		3			
IM7	Sunny	Moderate	11:45	8.4	Middle	4.2	0.2	323	28.0	28.0	7.9	18.1		71.9	71.9	5.1	0.0	2.3	4.0	3	3	821361	806818
11417	Curiny	Moderate	11.45	0.4	Mildule	4.2	0.2	323	28.0	20.0	7.9	18.1		71.9	71.3	5.1		2.4		4		02 100 1	000010
					Bottom	7.4	0.2	334	27.4	27.4	8.0	22.6		76.0	76.1	5.3	5.3	5.8		4			
					Bottom	7.4	0.1	327	27.4	27.4	8.0	22.6	22.0	76.1	/ 5.1	5.3	0.0	5.7		2			

DA: Depth-Averaged

Water Quality Monitoring Results on 21 September 23 during Mid-Flood Tide

water Quai	ity wioiiit	offing ixesu	iilə Uii		21 September 23	during wild-	1 1000 1	iue																
Monitoring	Weather	Sea	Sampling	Water	Sampling Dont	h (m)	Current Speed	Current	Water Te	emperature (°C)		pН	Salin	ity (ppt)		aturation %)	Disso Oxy	olved gen	Turbidity	(NTU)	Suspender (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling Dept	n (m)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.3	293	23.5	23.5	7.8	7.8	20.6	20.7	83.0	82.9	6.3		3.1		3			
					Surface	1.0	0.3	292	23.4	23.5	7.8	7.0	20.8	20.7	82.8	02.9	6.3	6.0	3.2	1	3			
IM10	Cummu	Moderate	11:40	8.4	Middle	4.2	0.3	276	23.0	23.0	7.8	7.8	25.2	25.2	75.5	75.5	5.6	0.0	4.0	4.2	4	3	822260	809857
IIVI IU	Sunny	Woderate	11.40	0.4	ivildale	4.2	0.3	279	23.0	23.0	7.8	7.0	25.3	23.2	75.5	75.5	5.6		4.1	1 4.2	3	3	022200	009007
					Bottom	7.4	0.3	309	22.9	22.9	7.8	7.8	25.9	25.9	77.2	77.3	5.7	5.7	5.4	Ī	4			
					Dottom	7.4	0.3	314	22.9	22.9	7.8	7.0	25.9	23.5	77.4	11.5	5.7	3.7	5.5		3			
					Surface	1.0	0.4	278	23.7	23.7	7.8	7.8	19.2	19.2	83.8	83.8	6.4		4.1		4			
					Currace	1.0	0.4	283	23.6	20.7	7.8	7.0	19.1	10.2	83.7		6.4	6.1	4.1		3			
IM11	Sunny	Moderate	11:34	9.0	Middle	4.5	0.4	297	23.2	23.2	7.8	7.8	24.7	24.7	76.4	76.4	5.7	0	5.1	5.3	3	3	821515	810527
	Curiny	Moderate	11.04	0.0	Wildele	4.5	0.4	300	23.2	20.2	7.8	7.0	24.7	2-7.1	76.4	70.4	5.7		5.1	0.0	4	Ŭ	021010	010027
					Bottom	8.0	0.4	260	23.1	23.1	7.8	7.8	25.0	25.0	77.9	78.0	5.8	5.8	6.7		2			
						8.0	0.4	264	23.1	20.1	7.8		25.0		78.1		5.8	0.0	6.7		2			
					Surface	1.0	0.5	287	23.6	23.6	7.9	7.9	18.4	18.5	84.4	84.3	6.5		3.2	1	2			
						1.0	0.5	283	23.5		7.9		18.5		84.2		6.4	6.1	3.2		2			
IM12	Sunny	Moderate	11:29	8.0	Middle	4.0	0.4	306	23.1	23.1	7.7	7.7	24.6	24.6	77.9	77.9	5.8		5.1	5.0	2	2	821161	811504
	,					4.0	0.4	311	23.1	_	7.7		24.6		77.8		5.8		5.1		2			
					Bottom	7.0	0.5	301	22.9	22.9	7.8	7.8	26.4	26.4	78.7	78.8	5.8	5.8	6.6		3			
						7.0	0.5	293	22.9		7.8		26.4		78.8		5.8		6.5		3			
					Surface	1.0	0.0	181	23.7	23.7	7.8	7.8	17.2	17.1	85.8	85.7	6.6		4.4		3			
						1.0	0.0	179	23.7		7.8		17.1		85.6		6.6	6.6	4.4		2			
SR1A	Sunny	Moderate	11:07	5.0	Middle	2.5 2.5	0.1	202	-	-	-	-	-	-	-	-	-			4.7		3	819973	812661
						4.0	0.1	196												-				
					Bottom	4.0	0.0	167 169	23.5 23.5	23.5	7.9	7.9	22.2	22.2	80.3 80.4	80.4	6.0	6.0	5.0 5.0	-	3			
						1.0	0.1	208	23.4		7.9		23.6		83.2		6.2		2.7		3			
					Surface	1.0	0.1	205	23.4	23.4	7.9	7.9	23.7	23.7	83.2	83.2	6.2		2.8		2			
						-	0.1	238	-		-		-		-		-	6.2		ł	-			
SR2	Sunny	Moderate	10:55	5.6	Middle	_	0.1	233	-	-	_	-		-		-				3.0	-	3	821481	814188
						4.6	0.2	223	23.3		7.8		24.4		85.2		6.3		3.2	i	3			
					Bottom	4.6	0.2	222	23.3	23.3	7.8	7.8	24.4	24.4	85.7	85.5	6.4	6.4	3.2	1	2			
						1.0	0.1	346	29.3		7.9		9.5		81.2		5.9		3.7		3			
					Surface	1.0	0.2	340	29.4	29.4	7.9	7.9	9.4	9.4	81.1	81.2	5.9		3.7	i	4			
	_					4.5	0.2	6	27.9		7.9		19.0		70.3		5.0	5.5	2.9	i	3	_		
SR3	Sunny	Moderate	11:52	9.0	Middle	4.5	0.1	6	27.9	27.9	7.9	7.9	19.0	19.0	70.3	70.3	5.0		2.9	6.4	3	3	822151	807564
					D.#	8.0	0.2	6	27.8	07.0	7.9	7.0	20.1	00.4	68.6	68.7	4.8	4.0	12.5	İ	3			
					Bottom	8.0	0.1	11	27.8	27.8	7.9	7.9	20.1	20.1	68.7	68.7	4.8	4.8	12.5	i	3			
					Surface	1.0	0.0	236	28.4	28.4	8.0	8.0	18.8	18.8	82.3	82.3	5.8		4.4		2			
					Surface	1.0	0.0	240	28.4	20.4	8.0	0.0	18.8	10.0	82.3	02.3	5.8	5.6	4.4	1	2			
SR4A	Sunny	Moderate	10:06	8.2	Middle	4.1	0.0	215	28.2	28.2	7.9	7.9	20.0	20.0	77.9	77.9	5.4	3.0	3.9	4.4	4	3	817173	807789
ONA	Guilly	Woderate	10.00	0.2	Wildelic	4.1	0.1	212	28.2	20.2	7.9	7.5	20.0	20.0	77.8	11.5	5.4		3.9	7.7	3	٦	017173	001103
				1	Bottom	7.2	0.0	217	27.9	27.9	7.9	7.9	20.8	20.8	74.4	74.5	5.2	5.2	5.1		5			
					Dottom	7.2	0.0	217	27.9	27.0	7.9	1.0	20.7	20.0	74.5	17.0	5.2	0.2	5.1		4			
					Surface	1.0	-	-	23.5	23.5	7.9	7.9	19.7	19.6	79.7	79.8	6.1		4.3		4			
				1	Curiuoc	1.0	-	-	23.5	20.0	7.9	7.0	19.5	10.0	79.8		6.1	6.1	4.3		3			
SR8	Sunny	Moderate	11:25	5.2	Middle	-	-	-	-	_	-	_	-	_	-	_	-	0.,	-	4.7	-	3	820384	811643
5.10			5	5.2		-	-	-	-		-		-		-		-		-		-		320001	3
				1	Bottom	4.2	-	-	23.1	23.1	7.9	7.9	25.7	25.7	78.0	78.3	5.8	5.8	5.1		3			
			1			4.2	-	-	23.1		7.9		25.7		78.5		5.8		5.0		2			

Water Quality Monitoring Results on 23 September 23 during Mid-Ebb Tide

water Qua	ity worth	oning Resu	iits oii		23 September 23	during wid-		<del>,</del>															
Monitoring	Weather	Sea	Sampling	Water	O a mare line or D a mare	h ()	Current Speed	Current	Water Te	emperature (°C)	pН	Sali	nity (ppt)	DO S	aturation (%)	Disso Oxy		Turbidity	(NTU)	Suspende (mg/		Coordinate	Coordinate
Station	Condition	Condition	Time	Depth (m)	Sampling Dept	n (m)	(m/s)	Direction	Value	Average	Value Averag	e Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	HK Grid (Northing)	HK Grid (Easting)
						1.0	0.4	213	27.9	07.0	8.1	20.1	00.4	91.7	04.0	6.4		1.8		6			
					Surface	1.0	0.4	206	27.9	27.9	8.1	20.1	20.1	91.5	91.6	6.4	0.4	1.8	1	6			
C1	C	Madausta	05:55	0.5	Middle	4.3	0.4	195	27.3	27.3	8.1 8.1	23.6	23.4	81.3	81.3	5.7	6.1	2.4	4.9	7	7	815622	804269
CI	Sunny	Moderate	05:55	8.5	Middle	4.3	0.4	195	27.2	21.3	8.1	23.3	23.4	81.2	01.3	5.7		2.4	4.9	7	,	813022	804269
					Bottom	7.5	0.4	220	26.7	26.7	8.0 8.0	28.3	28.3	70.7	70.8	4.8	4.8	10.5	1	7			
					BOUOIII	7.5	0.4	220	26.7	20.7	8.0	28.3	20.3	70.8	70.6	4.8	4.0	10.2		7			
					Surface	1.0	0.8	159	27.9	27.9	7.9	21.6	21.6	85.3	84.3	5.9		1.7		3			
					Surface	1.0	0.8	158	27.8	21.9	7.9	21.6	21.0	83.3	04.3	5.8	5.3	1.7		4			
C2	Fine	Moderate	08:00	10.0	Middle	5.0	0.7	177	27.6	27.7	7.9 7.9	25.6	25.7	69.0 68.0	68.5	4.7	0.0	2.1	2.3	3	3	825662	806932
02	1 1116	Woderate	00.00	10.0	Wildule	5.0	0.7	182	27.7	21.1		25.7	25.7		00.5	4.6		2.1	2.3	3	3	023002	000932
					Bottom	9.0	0.7	188	28.0	28.1	8.0	25.7	25.7	72.3	73.0	4.9	5.0	3.2		3			
					Bottom	9.0	0.7	194	28.1	20.1	8.0	25.6	25.1	73.6	75.0	5.0	5.0	3.2		3			
					Surface	1.0	0.4	66	28.5	28.5	8.0	24.5	24.6	97.0	96.8	6.6		2.1		3			
					Carrace	1.0	0.4	73	28.5	20.0	8.0	24.6	24.0	96.5	00.0	6.5	6.1	2.1	1	2			
СЗ	Sunny	Moderate	06:59	10.2	Middle	5.1	0.4	89	28.2	28.2	7.9 7.9	25.5	25.5	83.0 82.9	83.0	5.6	0.1	3.2	3.1	4	4	822120	817793
00	Curry	Woderate	00.00	10.2	Wildie	5.1	0.3	93	28.2	20.2		25.5	20.0		00.0	5.6		3.2	0.1	3	-	022120	011700
					Bottom	9.2	0.3	79	28.0	28.0	7.9 7.9	29.7	29.7	82.9	83.0	5.5	5.5	4.1	1	5			
						9.2	0.3	74	28.0		7.9	29.7		83.0		5.5		4.1		4			
					Surface	1.0	0.3	197	27.8	27.8	8.2 8.2	21.1	21.1	95.8	95.7	6.7		1.7	1	4			
						1.0	0.3	191	27.8		8.2	21.1		95.6		6.7	5.8	1.7	1	4			
IM1	Sunny	Moderate	06:18	6.5	Middle	3.3	0.3	186	26.8	26.8	8.0	27.2	27.2	69.7	69.7	4.8		3.1	2.6	4	5	818338	806463
	1					3.3	0.2	181	26.8		8.0	27.2		69.7		4.8		3.1	1	5			
					Bottom	5.5	0.3	201	26.7	26.7	8.0 8.0	28.3	28.3	69.0	69.1	4.7	4.7	2.9	4	6			
						5.5	0.3	193	26.7		8.0	28.3		69.2		4.7		3.0		5			
					Surface	1.0	0.4	182	27.7	27.7	8.2	22.0	22.0	97.6	97.5	6.8		2.7	4	5			
						1.0	0.4	183	27.7		8.2	22.0		97.4		6.8	6.0	3.2	-	4			
IM2	Sunny	Moderate	06:23	6.8	Middle	3.4 3.4	0.4	214 206	26.9 26.9	26.9	8.0	26.8	26.9	75.9 75.8	75.9	5.2 5.2		8.2 8.3	4.9	5	5	819191	806251
						5.8	0.3												-	5			
					Bottom	5.8	0.4	215 207	26.7	26.7	8.0	28.1	28.1	69.1 69.2	69.2	4.7	4.7	3.5 3.5	+	5			
						1.0	0.4	216	26.7									2.8	_				
					Surface	1.0	0.3	216	28.2 28.1	28.2	7.9 7.9	21.2	21.1	90.8	90.3	6.3			+	3			
						3.6	0.4	216	28.1		7.0	22.8				6.2 5.6	5.9	2.8 3.2	+	4			
IM7	Fine	Moderate	07:29	7.2	Middle	3.6	0.3	217	27.9	28.0	7.9 7.9	22.8	22.8	81.5 80.4	81.0	5.5		3.2	3.3	3	3	821342	806833
						6.2	0.3	191	27.8		7.9	24.8		82.2		5.6		4.1	1	3			
					Bottom	6.2	0.3	196	27.8	27.8	7.9 7.9	24.8	24.8	87.7	85.0	6.0	5.8	4.0	+	4			
DA: Donth Avor			1	l .		0.2	0.5	130	27.0		1.0	1 24.0		01.1	<u> </u>	0.0		T -4.0	1	+			<u> </u>

DA: Depth-Averaged

Water Quality Monitoring Results on 23 September 23 during Mid-Ebb Tide

Water Quar		ering rece			23 September 23	aaring iina																		
Monitoring	Weather	Sea	Sampling	Water	Sampling Day	ath (m)	Current Speed	Current	Water Te	emperature (°C)	р	Н	Salin	ity (ppt)		aturation %)	Disso Oxy		Turbidity	(NTU)	Suspende (mg/		Coordinate	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling Dep	our (rn)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	HK Grid (Northing)	(Easting)
					Surface	1.0	0.5	135	28.8	28.7	7.9	7.9	19.7	19.7	91.8	91.6	6.4		2.6		2			
					Juliace	1.0	0.5	135	28.6	20.1	7.9	ι.υ	19.7	18.1	91.4	91.0	6.4	5.9	2.5		2			
IM10	Sunny	Moderate	08:02	8.4	Middle	4.2	0.4	126	28.1	28.1	7.9	7.9	26.3	26.3	79.2	79.3	5.4	5.5	3.7	3.5	3	3	822227	809836
	Ourning	Wioderate	00.02	0.4	Wildelie	4.2	0.4	129	28.1	20.1	7.9	7.0	26.3	20.0	79.3	70.0	5.4		3.6	] 0.0	3	ŭ	OZZZZI	000000
					Bottom	7.4	0.4	107	28.2	28.2	7.9	7.9	26.8	26.8	81.2	81.7	5.5	5.5	4.3	1	3			
						7.4	0.4	109	28.2		7.9		26.7		82.1		5.5		4.3		3			
					Surface	1.0	0.5	97	29.0	29.0	8.0	8.0	17.8	17.8	95.8	95.7	6.7		2.9	4	2			
						1.0	0.5	95	28.9		8.0		17.9		95.6		6.7	6.1	2.8	-	2			
IM11	Sunny	Moderate	07:55	9.0	Middle	4.5	0.5	121	28.2	28.2	7.9	7.9	24.1	24.1	78.9	78.9	5.4		4.0	4.1	2	2	821478	810557
						4.5 8.0	0.5	126 85	28.1		7.9		24.0		78.9		5.4		4.1	-	3 2			
					Bottom	8.0	0.4	80	28.1	28.2	7.9	7.9	27.2	27.2	73.2 73.5	73.4	4.9	4.9	5.4	-	3			
				1	1	1.0	0.6	113			_		_								2			
					Surface	1.0	0.6	111	29.1	29.1	8.0	8.0	17.4 17.5	17.5	100.5	100.5	7.0		1.1	┨	3			
						3.9	0.6	88	28.3		8.0		20.6		90.5		6.3	6.7	2.3	1	4			
IM12	Sunny	Moderate	07:51	7.8	Middle	3.9	0.5	88	28.2	28.3	8.0	8.0	20.8	20.7	89.9	90.2	6.3		2.3	2.2	3	3	821164	811532
						6.8	0.5	104	28.0		7.9		28.1		74.2		5.0		3.2	┪	4			
					Bottom	6.8	0.5	103	28.1	28.1	7.9	7.9	28.0	28.0	74.3	74.3	5.0	5.0	3.1	1	4			
					1	1.0	0.0	60	29.1		8.1		19.4		108.5		7.5		1.1	<u> </u>	4			
					Surface	1.0	0.1	54	29.1	29.1	8.1	8.1	19.4	19.4	108.5	108.5	7.5		1.1	1	2			
0044			07.00			2.4	0.0	72	- 1		- 1		-		-		-	7.5	-	1	- 1	.	0.40070	
SR1A	Sunny	Moderate	07:29	4.8	Middle	2.4	0.0	70		-	-	-	-	-	-	-	-		-	1.4	- 1	4	819973	812666
					D.#	3.8	0.0	46	29.0	00.0	8.1	0.4	20.9	00.0	103.7	103.7	7.1	7.1	1.8	1	4			
					Bottom	3.8	0.1	51	29.0	29.0	8.1	8.1	20.9	20.9	103.6	103.7	7.1	7.1	1.8	1	4			
					Surface	1.0	0.5	48	29.0	29.0	8.1	8.1	20.2	20.3	101.1	101.0	7.0		1.9		3			
					Surface	1.0	0.5	51	29.0	29.0	8.1	0.1	20.3	20.3	100.8	101.0	6.9	7.0	1.9		4			
SR2	Sunny	Moderate	07:19	5.6	Middle	-	0.5	31	-	_	-		-	_	-		-	7.0	-	2.0	-	3	821459	814175
OINZ	Outliny	Woderate	07.13	3.0	Wildelie	-	0.5	25	-		-		-		-		-		-	2.0	-	١	021400	014173
					Bottom	4.6	0.5	38	28.6	28.6	8.0	8.0	21.5	21.5	90.6	90.5	6.2	6.2	2.2		3			
					Bottom	4.6	0.5	39	28.6	20.0	8.0	0.0	21.5	21.0	90.4	00.0	6.2	0.2	2.2		2			
					Surface	1.0	0.6	172	28.3	28.3	7.9	7.9	21.6	21.6	88.7	88.5	6.1		2.1	1	3			
						1.0	0.6	169	28.2	20.0	7.9		21.7		88.2		6.1	5.5	2.0	1	3			
SR3	Fine	Moderate	07:39	7.5	Middle	3.8	0.6	180	27.6	27.6	7.9	7.9	25.4	25.5	72.0	71.7	4.9		3.2	3.1	4	3	822142	807569
						3.8	0.5	180	27.6		7.9		25.6		71.4		4.9		3.2	1	3			
					Bottom	6.5	0.5	154	27.5	27.5	7.9	7.9	26.0	26.0	75.1	78.0	5.1	5.3	4.1	1	2			
			1	-	1	6.5	0.6	150	27.5		7.9		26.0		80.9		5.5		4.1	<u> </u>	2			
					Surface	1.0	0.0	85	28.5	28.5	8.3	8.3	20.3	20.3	108.5 108.4	108.5	7.5 7.5		3.7	-	10			
						1.0	0.0	91	28.5		8.3							6.1	3.9	1	9			
SR4A	Sunny	Moderate	05:27	8.4	Middle	4.2	0.0	104 106	26.9 26.9	26.9	8.0	8.0	26.6 26.6	26.6	68.9 68.8	68.9	4.7		7.9 8.0	6.9	9 8	9	817185	807794
						7.4	0.0	109	26.9		8.0		27.1		68.6		4.7		9.0	1	8			
					Bottom	7.4	0.0	109	26.9	26.9	8.0	8.0	27.1	27.1	68.7	68.7	4.7	4.7	9.0	1	8			
			<del>                                     </del>		_	1.0	-	-	29.3		8.1		17.5		105.7		7.3		4.3		3			
					Surface	1.0	-	-	29.3	29.3	8.1	8.1	17.5	17.5	105.7	105.7	7.3		4.4	1	2			
			1			-	-	-	-		-		-		-		-	7.3		1	-	ایا		
SR8	Sunny	Moderate	07:47	5.0	Middle	_	-	_	-	-	_	-	-	-	_	-	-		-	5.2	-	3	820409	811646
					D.#	4.0	-	-	29.2	00.0	8.1	0.4	20.4	00.4	98.7	00.0	6.8		6.2	1	3			
					Bottom	4.0	-	-	29.3	29.3	8.1	8.1	20.5	20.4	99.1	98.9	6.8	6.8	6.1	1	4			
A: Donth Aver					1	1.0			0.0		, V. I				00.1		0.0		, V. I		, ,			

DA: Depth-Averaged

Water Quality Monitoring Results on 23 September 23 during Mid-Flood Tide

Monitoring	Weather	Sea	Sampling	Water	Sampling Dep		Current Speed	Current	Water Te	emperature (°C)	ŗ	рН	Salin	ity (ppt)	DO S	aturation (%)	Disso Oxy		Turbidity	/(NTU)	Suspende (mg		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling Dep	ui (iii <i>)</i>	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.1	30	27.9	27.9	8.1	8.1	22.0	22.0	91.1	91.0	6.3		1.8		6			
					Surface	1.0	0.1	24	27.9	21.9	8.1	0.1	22.0	22.0	90.9	91.0	6.3	5.6	1.8		5			
C1	Cloudy	Moderate	17:38	8.5	Middle	4.3	0.2	41	26.7	26.7	8.0	8.0	28.2	28.2	70.6	70.7	4.8	3.0	6.2	6.0	5	5	815598	804236
01	Cloudy	Woderate	17.50	0.5	Wildelie	4.3	0.2	37	26.7	20.7	8.0	0.0	28.2	20.2	70.7	70.7	4.8		6.3	0.0	6		013330	004230
					Bottom	7.5	0.1	42	26.6	26.6	8.0	8.0	28.8	28.8	73.1	73.2	5.0	5.0	9.9		4			
					Dottom	7.5	0.1	38	26.6	20.0	8.0	0.0	28.8	20.0	73.3	75.2	5.0	3.0	10.0		4			
					Surface	1.0	0.0	280	29.1	29.1	8.0 8.0	8.0	15.8	15.8	98.8	98.7	6.9		1.6		3			
					Gundoc	1.0	0.0	279	29.1	20.1		0.0	15.8	10.0	98.5	00.7	6.9	6.8	1.6	1	3			
C2	Fine	Moderate	19:06	11.0	Middle	5.5	0.1	307	28.9	28.9	8.0	8.0	17.7	17.7	96.5	96.4	6.7	0.0	2.7	2.5	4	4	825700	806959
02		moderate	10.00		mado	5.5	0.1	301	28.9	20.0	8.0	0.0	17.7		96.3	00.1	6.7		2.7		5	·	020.00	000000
					Bottom	10.0	0.1	277	29.3	29.4	8.0	8.0	18.9	18.8	95.9 96.0	96.0	6.6	6.6	3.2	1	4			
						10.0	0.1	272	29.4		7.9		18.8				6.6		3.2		6			
					Surface	1.0	0.1	265	28.9	28.9	8.4	8.4	22.6 22.6	22.6	152.4 148.5	150.5	10.4		3.0	1	2			
						1.0	0.0	261	28.8		8.4						10.1	8.3	3.0	-	2			
C3	Fine	Moderate	18:32	10.2	Middle	5.1 5.1	0.0	255 256	28.3 28.3	28.3	8.1 8.1	8.1	24.4	24.4	91.8 91.9	91.9	6.2	-	4.8	4.8	3	3	822095	817823
						9.2	0.0	254	28.1		8.1		28.3				5.8		6.6	+	4			
					Bottom	9.2	0.1	253	28.1	28.1	8.1	8.1	28.3	28.3	86.8 87.4	87.1	5.8	5.8	6.5	+	3			
						1.0	0.1	29	27.7		8.1		22.0		92.8		6.5		2.0		5			
					Surface	1.0	0.1	22	27.7	27.7	8.1	8.1	22.0	22.0	92.8	92.8	6.5	ł	2.0	†	4			
						3.1	0.0	20	26.8		8.0		27.2		67.9		4.7	5.6	4.1	1	5			
IM1	Cloudy	Moderate	17:22	6.2	Middle	3.1	0.1	13	26.8	26.8	8.0	8.0	27.2	27.2	67.9	67.9	4.7	İ	4.1	5.9	6	5	818331	806458
					5 "	5.2	0.1	40	26.7	26.7	8.0		28.3			20.4	4.6		12.0	1	6			
					Bottom	5.2	0.1	40	26.7	26.7	8.0	8.0	28.3	28.3	67.9 68.2	68.1	4.7	4.7	11.1	1	6			
					Surface	1.0	0.1	30	27.6	27.6	8.2	8.2	22.6	22.6	93.0	93.0	6.5		2.3		5			
					Surface	1.0	0.1	27	27.6	27.0	8.2	0.2	22.6	22.0	92.9	93.0	6.5	5.9	2.3	1	6			
IM2	Cloudy	Moderate	17:11	6.8	Middle	3.4	0.1	11	26.9	26.9	8.0	8.0	26.7	26.7	75.3	75.3	5.2	3.9	2.6	3.1	5	6	819190	806236
IIVIZ	Cloudy	Moderate	17.11	0.0	Middle	3.4	0.0	4	26.9	20.9	8.0	0.0	26.7	20.7	75.2	75.5	5.2		2.6	] 3.1	6	0	019190	000230
					Bottom	5.8	0.1	39	26.7	26.8	8.0	8.0	27.9	27.9	68.6	68.7	4.7	4.7	4.1		6			
					Dottom	5.8	0.0	34	26.8	20.0	8.0	0.0	27.9	21.5	68.8	00.7	4.7	7.7	5.0		7			
					Surface	1.0	0.0	125	28.7	28.7	7.8	7.8	18.9	18.9	89.9	89.8	6.3		1.9		4			
						1.0	0.0	128	28.6	ļ	7.8		18.9		89.6		6.3	5.9	1.9	1	5			
IM7	Fine	Moderate	19:31	9.2	Middle	4.6	0.1	114	27.7	27.7	7.8	7.8	22.5	22.5	78.5	78.2	5.5		2.5	2.6	4	4	821337	806820
						4.6	0.1	120	27.6		7.8		22.5		77.9		5.4		2.6	1	3			
					Bottom	8.2	0.0	110	26.6	26.7	7.8	7.8	28.4	28.3	67.6	70.0	4.6	4.8	3.3	4	3			
DA Danth Assa					1	8.2	0.0	110	26.7		7.8		28.2		72.4		5.0	l	3.3	1	4			

DA: Depth-Averaged

Water Quality Monitoring Results on 23 September 23 during Mid-Flood Tide

Trutter Quui		· · · · · · · · · · · · · · · · · · ·			20 Ocpteriber 20		1		_		_													
Monitoring	Weather	Sea	Sampling	Water	Sampling Dep	th (m)	Current Speed	Current	Water Te	emperature (°C)		pH	Salin	ity (ppt)		aturation (%)	Disso Oxy		Turbidity	(NTU)	Suspende (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Запірііні Дер	ui (III <i>)</i>	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Cunface	1.0	0.2	285	29.5	20 F	8.0	0.0	18.9	40.0	91.0	91.2	6.2		2.1		3			
					Surface	1.0	0.2	277	29.5	29.5	8.0	8.0	18.9	18.9	91.3	91.2	6.3	- 0	2.2	1	4			
IM10	Fin a	Moderate	17:14	9.8	Middle	4.9	0.2	306	27.9	27.9	7.9	7.9	27.2	27.3	73.5	73.5	5.0	5.6	3.2	3.1	4	3	822262	809842
IIVI IU	Fine	ivioderate	17:14	9.6	Middle	4.9	0.2	308	27.9	27.9	7.9	7 7.9	27.3	21.3	73.5	73.5	5.0		3.2	3.1	3	3	022202	009042
					Bottom	8.8	0.1	308	28.2	28.3	8.0	8.0	27.4	27.3	75.5	75.6	5.1	5.1	4.0	İ	3			
					Bottom	8.8	0.1	314	28.3	20.3	8.0	7 0.0	27.3	21.3	75.7	75.0	5.1	5.1	4.0	1	2			
					Surface	1.0	0.1	267	28.7	28.7	8.1	8.1	18.8	18.8	95.6	95.4	6.7		2.4		2			
					Surface	1.0	0.1	271	28.7	20.7	8.1	0.1	18.8	10.0	95.1	33.4	6.6	5.8	2.5		3			
IM11	Fine	Moderate	17:38	8.2	Middle	4.1	0.1	280	28.0	28.0	8.0	8.0	26.9	26.9	74.4	74.4	5.0	5.0	3.8	3.4	3	3	821524	810550
IIVI I	1 1116	Wioderate	17.50	0.2	Middle	4.1	0.1	275	28.0	20.0	8.0	0.0	27.0	20.9	74.4	74.4	5.0		3.7	3.4	3	3	021324	010330
					Bottom	7.2	0.2	273	28.4	28.5	8.0	8.0	26.9	26.9	79.1	79.5	5.3	5.3	4.1		3			
					Dottom	7.2	0.2	269	28.5	20.3	8.0	0.0	26.9	20.9	79.9	19.5	5.3	5.5	3.9		3			
					Surface	1.0	0.2	286	29.2	29.2	8.1	8.1	17.3	17.3	103.8	103.7	7.2		2.3		3			
					Surface	1.0	0.1	291	29.1	29.2	8.1	0.1	17.3	17.5	103.6	103.7	7.2	6.9	2.3		4			
IM12	Fine	Moderate	17:42	6.6	Middle	3.3	0.2	300	28.4	28.4	8.1	8.1	20.8	20.9	95.7	95.4	6.6	0.0	2.9	3.1	3	4	821173	811528
110112	1 1116	Wioderate	17.42	0.0	Middle	3.3	0.2	295	28.3	20.4	8.1	0.1	20.9	20.9	95.1	90.4	6.6		2.8	3.1	4	4	021173	011320
					Bottom	5.6	0.2	275	27.9	27.9	7.9	7.9	27.5	27.5	78.5	78.9	5.3	5.3	4.0		4			
					Dottom	5.6	0.2	279	27.9	21.5	7.9	7.5	27.5	21.5	79.3	70.5	5.3	5.5	4.0		4			
					Surface	1.0	0.0	219	29.3	29.3	8.2	8.2	19.1	19.1	118.2	118.0	8.1		1.2		3			
					Ouriace	1.0	0.0	213	29.3	25.5	8.2	0.2	19.1	15.1	117.7	110.0	8.1	8.1	1.2		3			
SR1A	Fine	Moderate	17:55	4.8	Middle	2.4	0.0	214	-	_	-		-	_	-	_	-	0.1	-	1.8	-	3	819978	812654
OITIA	1 1110	Woderate	17.55	7.0	Wildele	2.4	0.0	207	-	_	-		-		-	_	-		-	1.0	-	3	013370	012004
					Bottom	3.8	0.1	213	29.5	29.5	8.2	8.2	21.0	20.9	113.0	113.7	7.7	7.8	2.3		2			
						3.8	0.1	214	29.5	20.0	8.2	02	20.9	20.0	114.4		7.8		2.3		3			
					Surface	1.0	0.1	229	29.5	29.5	8.2	8.2	19.2	19.2	120.5	120.5	8.3		1.1		3			
					04.1400	1.0	0.1	235	29.5	20.0	8.2	02	19.2	.0.2	120.5	120.0	8.3	8.3	1.1	]	3			
SR2	Fine	Moderate	18:09	5.0	Middle	-	0.0	247	-	_	-	l .	-	_	-	_	-	0.0	-	1.8	-	3	821457	814161
0.1.2		moderate	10.00	0.0	maaio	-	0.1	253	-		-		-		-		-		-		-	Ü	021.01	0
					Bottom	4.0	0.0	246	29.5	29.5	8.1	8.1	22.1	22.1	120.2	120.2	8.1	8.1	2.6		3			
					Dottom	4.0	0.0	247	29.5	20.0	8.1	0	22.1		120.2	120.2	8.1		2.6		2			
					Surface	1.0	0.1	151	29.2	29.2	7.9	7.9	16.0	16.0	100.9	100.8	7.1		2.6	ļ	3			
						1.0	0.1	151	29.1		7.9		16.0		100.6		7.1	6.9	2.5		3			
SR3	Fine	Moderate	19:25	8.3	Middle	4.2	0.1	122	28.7	28.7	7.9	7.9	18.8	18.7	95.0	95.0	6.6		3.3	3.3	2	3	822138	807559
						4.2	0.1	120	28.7		7.9		18.7	-	94.9		6.6		3.3		2			
					Bottom	7.3	0.0	158	28.9	29.0	7.9	7.9	20.8	20.8	88.1	88.4	6.1	6.1	4.1		3			
						7.3	0.1	152	29.0		7.9		20.8		88.7		6.1		4.0		2			
					Surface	1.0	0.0	272	28.7	28.7	8.3	8.3	20.5	20.5	120.9	120.8	8.3		4.8		8			
						1.0	0.1	273	28.7		8.3		20.5		120.6		8.3	7.5	4.8		9			
SR4A	Cloudy	Moderate	18:09	9.0	Middle	4.5	0.0	301	28.1	28.2	8.1	8.1	23.3	23.3	95.2	96.1	6.5		5.5	6.0	6	7	817165	807814
	-					4.5	0.0	305	28.2		8.1		23.2		96.9		6.7		5.6	ļ	6			
					Bottom	8.0	0.0	284	26.9	26.9	8.0	8.0	26.6	26.6	70.9	70.9	4.9	4.9	7.7	-	6			
						8.0	0.0	277	26.9		8.0	-	26.6		70.9		4.9		7.6		7			
					Surface	1.0	-	-	29.6	29.7	8.1	8.1	17.0	16.9	104.8	104.5	7.3		1.3	1	3			
						1.0	-	-	29.7		8.1	-	16.9		104.1		7.2	7.3	1.3	-	2			
SR8	Fine	Moderate	17:46	4.8	Middle	-	-	-	-	-	-	- 1	$\vdash$	-	-	-	-		-	1.8	-	3	820381	811636
						- 20	-	-	- 20.1		7.0	-	- 25.7		- 02.4				- 2.4	-	-			
					Bottom	3.8	-	-	28.1	28.1	7.9 8.0	7.9	25.7 25.7	25.7	83.4 85.5	84.5	5.7	5.8	2.4	-	3			
						3.8	-	-	28.1		J 8.0		25./		85.5		5.8		2.4		3			

DA: Depth-Average

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

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

Water Quality Monitoring Results on

26 September 23 during Mid-Ebb Tide

water Qual	ity wont	oning Resu	its on		26 September 23	during wild-	EDD HUE	<del>,</del>																
Monitoring	Weather	Sea	Sampling	Water	Sampling Dept	h (m)	Current Speed	Current	Water Te	emperature (°C)		pН	Salir	nity (ppt)	DO S	aturation (%)	Disso Oxyg		Turbidity	(NTU)	Suspende (mg		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	запріпід Бері		(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
				-	Surface	1.0	0.3	222	28.6	28.6	8.2	8.2	26.0	26.0	127.4		8.5		2.6		8			
					Surface	1.0	0.3	223	28.6	20.0	8.2	0.2	26.1	20.0	127.3	127.4	8.5	7.9	2.6	1	8			
C1	Sunny	Rough	09:16	7.8	Middle	3.9	0.3	199	28.4	28.4	8.1	8.1	27.2	27.2	108.7	108.8	7.3	1.9	3.1	2.9	6	7	815624	804263
	Suring	Rougii	09.10	1.0	Mildule	3.9	0.4	196	28.4	20.4	8.1	0.1	27.2	21.2	108.8		7.3		3.1	] 2.9	6	,	013024	004203
					Bottom	6.8	0.3	200	28.2	28.2	8.1	8.1	27.9	27.9	100.5		6.7	6.7	2.9	]	7			
					Dottom	6.8	0.3	199	28.2	20.2	8.1	0.1	27.9	21.5	100.5	100.5	6.7	0.7	2.9		8			
					Surface	1.0	0.7	181	28.7	28.7	8.2	8.2	26.6	26.7	106.2		7.1		5.1		11			
					Ourrace	1.0	0.7	187	28.7	20.1	8.2	0.2	26.7	20.7	106.0	100.1	7.1	6.8	5.2		10			
C2	Sunny	Moderate	10:55	9.6	Middle	4.8	0.7	172	28.5	28.5	8.2	8.2	27.3	27.3	96.4	96.4	6.4 6.4	0.0	6.8	6.9	9	9	825678	806963
	Guilly	Moderate	10.55	3.0	IVIIGGE	4.8	0.7	176	28.5	20.0	8.2	0.2	27.3	21.5	96.4	30.4			6.8	] 0.5	7	3	023073	000000
					Bottom	8.6	0.7	192	28.1	28.1	8.1	8.1	29.1	29.1	82.9	83.0	5.5	5.5	8.9	1	8			
					Dottom	8.6	0.8	197	28.1	20.1	8.1	0.1	29.2	20.1	83.0		5.5	0.0	8.8		9			
					Surface	1.0	0.3	76	28.1	28.1	8.1	8.1	25.3	25.3	101.4		6.9		0.6		8			
					Carrace	1.0	0.3	74	28.1	20.1	8.1	0.1	25.3	20.0	101.4	101.4	6.9	6.3	0.6	]	7			
C3	Sunny	Moderate	08:44	12.8	Middle	6.4	0.3	64	27.9	27.9	7.9 7.9	7.9	27.4	27.4	85.0	85.0	5.7	0.0	4.2	3.3	7	8	822109	817788
	ounny	Moderate	00.44	12.0	Middle	6.4	0.3	60	27.9	21.0		7.0	27.4	277	84.9	00.0	5.7		4.4	] 0.0	8	Ü	022.00	017700
					Bottom	11.8	0.3	81	27.7	27.7	7.9	7.9	28.7	28.7	78.5	78.5	5.3	5.3	5.0	1	8			
						11.8	0.4	77	27.7		7.9		28.7		78.5		5.3		5.0		10			
					Surface	1.0	0.3	191	28.8	28.8	8.2	8.2	25.9	25.9	129.4		8.7		1.7	1	7			
						1.0	0.2	191	28.8		8.2		25.9		129.3		8.7	8.2	1.6	1	8			
IM1	Sunny	Moderate	09:42	7.4	Middle	3.7	0.3	188	28.5	28.5	8.2	8.2	26.8	26.8	114.8		7.7		2.4	2.2	6	8	818339	806455
	'					3.7	0.3	193	28.5		8.2		26.8		114.8				2.5	1	8			
					Bottom	6.4	0.3	191	28.2	28.2	8.1	8.1	27.8	27.8	102.5		6.8	6.9	2.6	1	8			
						6.4	0.3	184	28.2		8.1		27.8		102.5		6.9		2.6		8			
					Surface	1.0	0.4	206	29.0	29.0	8.3	8.3	26.1	26.1	117.8		7.8		3.6	1	9			
						1.0	0.4	200	29.0		8.3		26.2		117.2		7.8	7.0	3.7	1	7			
IM2	Sunny	Moderate	09:54	7.6	Middle	3.8	0.3	200	28.3	28.3	8.1 8.1	8.1	27.5	27.6	93.0	93.1	6.2 6.2		4.7	4.9	8	8	819192	806224
						3.8	0.3	205	28.3				27.6		93.1				4.7	1	7			
					Bottom	6.6	0.3	200	28.2	28.2	8.1 8.1	8.1	28.4	28.4	84.4	84.4	5.6 5.6	5.6	6.2	1	8			
						6.6	0.3	195	28.2				28.4		84.4				6.3		8			
					Surface	1.0	0.2	177	29.0	29.0	8.3 8.3	8.3	26.1	26.1	122.4		8.1		3.5	1	<u> </u>			
						1.0	0.3	171	29.0		_		26.1		122.3		8.1	7.8	3.5	1	9			
IM7	Sunny	Moderate	10:21	8.2	Middle	4.1	0.3	174	28.8	28.8	8.3 8.3	8.3	26.6	26.6	113.2		7.5 7.5		3.8	4.4	8	8	821359	806838
						4.1	0.3	170	28.8				26.6		113.2				3.8	1	9			
					Bottom	7.2 7.2	0.3	189	28.2 28.2	28.2	8.1 8.1	8.1	28.3	28.3	87.2 87.3	87.3	5.8	5.8	5.9 5.9	1	7 9			
DA: Donth Aver						1.2	0.3	190	28.2		8.1		28.3	l	87.3		5.8		5.9		<u> 9</u>			

DA: Depth-Averaged

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

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

Water Quality Monitoring Results on

26 September 23 during Mid-Ebb Tide

water Quar	ity inoine	ornig rtoou	100 011		20 September 23	aaring iiia		•					_											
Monitoring	Weather	Sea	Sampling	Water	0 " 0 "		Current Speed	Current	Water Te	mperature (°C)		pН	Salir	nity (ppt)		aturation (%)	Disso Oxyg		Turbidity	(NTU)		led Solids g/L)	Coordinate	Coordinate
Station	Condition	Condition	Time	Depth (m)	Sampling Dept	:n (m)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	HK Grid (Northing)	HK Grid (Easting)
					0	1.0	0.5	109	28.3	00.0	8.2	0.0	23.8	00.0	104.0	400.0	7.1		1.7		6			
					Surface	1.0	0.5	108	28.2	28.3	8.2	8.2	23.9	23.9	103.7	103.9	7.1		1.7	İ	6	1		
IM10	C	Daviele	10:29	7.0	Middle	3.5	0.4	103	28.1	28.1	8.0	8.0	24.4	24.4	94.0	93.9	6.4	6.8	2.2	2.3	6	6	822239	809846
IIVI IU	Sunny	Rough	10.29	7.0	ivildale	3.5	0.4	105	28.1	20.1	8.0	0.0	24.4	24.4	93.8	93.9	6.4		2.2	2.3	6	1 "	022239	009040
					Bottom	6.0	0.5	109	28.1	28.1	8.0	8.0	25.1	25.1	88.0	88.0	6.0	6.0	2.9	Ī	6	]		
					Dottom	6.0	0.5	114	28.1	20.1	8.0	0.0	25.1	20.1	88.0	00.0	6.0	0.0	2.9		6			
					Surface	1.0	0.5	83	28.5	28.5	8.2	8.2	23.4	23.4	115.2	114.9	7.9		1.3		5			
						1.0	0.5	87	28.5		8.2	0.2	23.4	20	114.6		7.8	7.3	1.3		6			
IM11	Sunny	Rough	10:19	7.8	Middle	3.9	0.5	113	28.3	28.3	8.1	8.1	24.1	24.1	99.6	99.5	6.8		2.3	4.0	7	7	821473	810555
	,	· g. ·				3.9	0.5	106	28.3		8.1		24.2		99.4		6.8		2.4		6			
					Bottom	6.8	0.5	96	28.2	28.2	8.0	8.0	24.8	24.8	91.0	91.1	6.2	6.2	8.2	ļ	10	_		
						6.8	0.5	97	28.2		8.0		24.8		91.1	-	6.2		8.3		8			
					Surface	1.0	0.6	95	28.5	28.5	8.2	8.2	23.4	23.4	118.8	118.6	8.1		1.0		9			
						1.0	0.6	102	28.5		8.2		23.4		118.3		8.1	7.5	1.0		8	1		
IM12	Sunny	Rough	10:09	8.5	Middle	4.3	0.6	105	28.3	28.3	8.1	8.1	23.9	23.9	101.9	101.9	6.9		1.4	2.1	8	7	821178	811516
		_				4.3	0.6	102	28.3		8.1		23.9		101.8		6.9		1.4	-	7	-		
					Bottom	7.5 7.5	0.6	127 128	28.2	28.2	8.0	8.0	25.0 25.0	25.0	90.3	90.3	6.1	6.1	3.9	ł	6	-		
					<u> </u>	1.0	0.0	66	28.3		_			<u> </u>			6.6		1.1			1	<u> </u>	1
					Surface	1.0	0.0	66	28.3	28.3	8.1	8.1	24.4	24.4	97.1 96.8	97.0	6.6		1.1	ł	5 6	1		
						2.7	0.0	88	- 20.3		- 0.1		24.4		90.0		-	6.6	-	ł	-	1		
SR1A	Sunny	Moderate	09:30	5.4	Middle	2.7	- 0.0	84	-	-	-	-	F		-	-	-		-	3.7		6	819990	812663
						4.4	0.0	63	28.1		8.0		26.2		87.1		5.9		6.2	1	6	1		
					Bottom	4.4	0.0	57	28.1	28.1	8.0	8.0	26.3	26.2	87.2	87.2	5.9	5.9	6.3	ł	6	1		
						1.0	0.4	50	28.3		8.1		24.2		99.8		6.8		1.0		6			
					Surface	1.0	0.4	51	28.3	28.3	8.1	8.1	24.2	24.2	99.6	99.7	6.8		1.0	1	5	1		
	_					-	0.4	57	-		-		-		-		-	6.8	-		-	1 _		
SR2	Sunny	Moderate	09:12	4.9	Middle	-	0.4	51	-	-	-	-	-	1 -	-	-	-		-	1.9	-	6	821485	814168
					5 "	3.9	0.4	37	28.1	22.4	8.0		25.9	25.0	91.9	04.0	6.2		2.7	İ	6	1		
					Bottom	3.9	0.3	30	28.1	28.1	8.0	8.0	25.9	25.9	91.8	91.9	6.2	6.2	2.7	İ	5	1		
					Surface	1.0	0.5	154	29.1	20.4	8.3	0.0	26.0	20.0	125.7	105.7	8.4		3.3		7			
					Surface	1.0	0.5	153	29.1	29.1	8.3	8.3	26.1	26.0	125.7	125.7	8.4	8.2	3.4	İ	7	1		
SR3	Suppy	Madarata	10:30	8.9	Middle	4.5	0.5	182	29.0	29.0	8.3	0.2	26.2	26.2	119.8	110.0	8.0	0.2	3.4	3.8	7	7	822163	807550
383	Sunny	Moderate	10.30	0.9	ivildale	4.5	0.5	184	28.9	29.0	8.3	8.3	26.3	26.2	119.7	119.8	8.0		3.5	3.6	7	] ′	022103	007550
					Bottom	7.9	0.6	142	28.5	28.5	8.2	8.2	27.2	27.2	102.7	102.7	6.9	6.9	4.5		8			
					Dottom	7.9	0.6	147	28.5	20.5	8.2	0.2	27.2	21.2	102.7	102.7	6.9	0.9	4.5		8			
					Surface	1.0	0.1	109	28.5	28.5	8.2	8.2	26.4	26.4	120.7	120.7	8.1		2.8		7			
					Curidoc	1.0	0.1	109	28.5	20.0	8.2	0.2	26.5	20.4	120.6	120.7	8.1	7.5	2.8		7	]		
SR4A	Sunny	Moderate	08:43	10.8	Middle	5.4	0.0	110	28.3	28.3	8.1	8.1	27.6	27.6	103.4	103.4	6.9		3.1	4.2	7	8	817204	807824
						5.4	0.0	113	28.3		8.1		27.6		103.4		6.9		3.1		8	_		
					Bottom	9.8	0.1	123	28.1	28.1	8.0	8.0	28.7	28.7	88.3	88.3	5.9	5.9	6.6		8	1		
						9.8	0.0	117	28.1	-	8.0		28.7		88.3		5.9		6.6		10			
					Surface	1.0	-	-	28.7	28.7	8.1	8.1	24.3	24.3	101.4	101.4	6.9		1.9		7	1		
						1.0	-	-	28.7		8.1		24.3		101.3		6.8	6.9	2.0		6	1		
SR8	Sunny	Rough	09:58	4.9	Middle	-	-	-	-	-	-	-	-	-	-	-	-		-	2.0	-	7	820392	811637
		Ü				-	-	-	- 00.0		-		-				-		- 0.4			1		
					Bottom	3.9	-	-	28.6	28.6	8.1	8.1	24.4	24.4	99.7	99.7	6.8	6.8	2.1		7	1		
DA: Donth Aver			[			3.9	-	-	28.6		8.1		24.4		99.6		6.8		2.1		9			

DA: Depth-Averaged

Water Quality Monitoring Results on

26 September 23 during Mid-Flood Tide

Monitoring	Weather	Sea	Sampling	Water	Sampling Dept		Current Speed	Current	Water Te	emperature (°C)		pН	Salin	ity (ppt)		aturation (%)	Disso Oxyg		Turbidity	(NTU)	Suspend (mg		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling Dept	11 (111)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	
					Surface	1.0	0.4	33	29.0	29.0	8.4	8.4	26.1	26.1	135.7	135.6	9.0		2.5		7			
					Gundoo	1.0	0.4	29	29.0	20.0	8.4	0.4	26.1	20.1	135.5	100.0	9.0	8.9	2.5		8			
C1	Sunny	Rough	18:10	7.7	Middle	3.9	0.4	23	28.9	28.9	8.4 8.4	8.4	26.1	26.1	132.7	132.6	8.8 8.8	0.5	3.6	3.2	7	7	815620	804246
	Curry	rtougii	10.10		Wilddie	3.9	0.4	19	28.9	20.0		0.4	26.1	20.1	132.5	102.0			3.6	0.2	7	'	010020	00-12-10
					Bottom	6.7	0.3	29	28.5	28.5	8.3 8.3	8.3	26.7	26.7	113.8	113.9	7.6	7.6	3.5	1	7			
					Bottom	6.7	0.3	27	28.5	20.0		0.0	26.7	20	114.0		7.6		3.5		6			
					Surface	1.0	0.2	183	28.8	28.8	8.2 8.2	8.2	26.3	26.3	113.3	113.3	7.6		4.1	1	8			
						1.0	0.2	185	28.8	20.0		0.2	26.3		113.3	110.0	7.6	7.3	4.1	1	8			
C2	Sunny	Rough	16:17	9.1	Middle	4.6	0.2	185	28.7	28.7	8.2	8.2	26.6	26.6	105.7	105.5	7.1		5.0	5.3	8	8	825663	806949
	'	3				4.6	0.2	190	28.7		8.2	-	26.6		105.3		7.0		5.0	1	8			
					Bottom	8.1	0.2	194	28.2	28.2	8.1 8.2	8.2	28.5	28.5	88.5	88.9	5.9	5.9	7.0	ļ	7			
-						8.1	0.2	200	28.2				28.5		89.2		5.9		7.0		9			
					Surface	1.0	0.4	278 280	28.8 28.8	28.8	8.2 8.2	8.2	25.1 25.1	25.1	121.2 121.1	121.2	8.1 8.1		1.2	-	- 8 7			
						6.4	0.4	248									6.5	7.3		ł				
C3	Sunny	Moderate	17:33	12.8	Middle	6.4	0.4	248	28.2 28.2	28.2	8.1 8.1	8.1	26.2 26.2	26.2	96.8 96.6	96.7	6.5		4.5 4.6	4.0	9	8	822103	817799
						11.8	0.3	268	27.9				27.2		87.4		5.9		6.3	1	7			
					Bottom	11.8	0.4	265	27.9	27.9	7.9 7.9	7.9	27.3	27.2	87.6	87.5	5.9	5.9	6.2	ł	6			
						1.0	0.2	21	28.9		8.4		26.1		133.7		8.9		3.8		7			
					Surface	1.0	0.2	21	28.9	28.9	8.4	8.4	26.1	26.1	133.6	133.7	8.9		3.9	t	6			
						3.5	0.2	14	28.5	00.5	8.3		26.7		111.1		7.4	8.2	3.4		6	_	040074	
IM1	Sunny	Moderate	17:44	6.9	Middle	3.5	0.2	15	28.5	28.5	8.3	8.3	26.7	26.7	111.1	111.1	7.4		3.4	4.2	6	7	818371	806460
					Dettern	5.9	0.2	356	28.3	28.3	8.2	8.2	27.2	27.2	102.2	102.2	6.8	6.8	5.5	1	6			
					Bottom	5.9	0.2	356	28.3	20.3	8.2	0.2	27.2	21.2	102.2	102.2	6.8	0.0	5.5	1	8			
					Surface	1.0	0.2	0	28.8	28.8	8.2	8.2	26.6	26.6	108.7	108.7	7.3		4.6		5			
					Surface	1.0	0.2	0	28.8	20.0	8.2	0.2	26.6	20.0	108.7	100.7	7.3 7.2	7.2	4.5	]	6			
IM2	Sunny	Moderate	17:36	7.1	Middle	3.6	0.1	22	28.6	28.6	8.2	8.2	26.9	26.9	106.7	106.7	7.1	1.2	5.2	6.5	6	7	819197	806257
IIVIZ	Guilly	Woderate	17.50	7.1	Wilddie	3.6	0.1	28	28.6	20.0	8.2	0.2	26.9	20.5	106.7	100.7	7.1		5.1	0.5	8	'	013137	000257
					Bottom	6.1	0.2	22	28.4	28.4	8.2 8.2	8.2	27.9	27.9	96.0	96.0	6.4	6.4	9.7	]	10			
					Bottom	6.1	0.2	14	28.4	20.4		0.2	27.9	27.0	95.9	00.0	6.4	0.4	9.7		8			
					Surface	1.0	0.2	307	28.7	28.7	8.2	8.2	26.8	26.8	107.4	107.4	7.2		4.9	1	7			
						1.0	0.2	302	28.7		8.2		26.8		107.4		7.2	7.1	4.9		8			
IM7	Sunny	Moderate	17:04	7.9	Middle	4.0	0.1	296	28.6	28.6	8.2	8.2	26.8	26.8	104.7	104.7	7.0	-	5.0	6.0	7	7	821329	806828
						4.0	0.1	299	28.6		8.2		26.8		104.6		7.0		5.0	1	6			
					Bottom	6.9	0.1	296	28.2	28.2	8.1	8.1	28.4	28.4	89.4	89.4	6.0	6.0	7.9	1	7			
DA Danth Asses						6.9	0.1	302	28.2		8.1		28.4		89.3		6.0		7.9		6			

DA: Depth-Averaged

Water Quality Monitoring Results on

26 September 23 during Mid-Flood Tide

		oring Resu			26 September 23																			
Monitoring	Weather	Sea	Sampling	Water	Sampling Dani	th (m)	Current Speed	Current	Water Ter	mperature (°C)		рН	Salin	nity (ppt)	DO Satur (%)	ation	Dissol Oxyg		Turbidity	(NTU)	Suspend (mg	ed Solids g/L)	Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling Dept	ın (m)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value Av	erage	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.2	239	29.0	29.0	8.3	8.3	21.7	21.7	142.4	42.3	9.7		1.6		9			
					Surface	1.0	0.2	242	29.0	29.0	8.3	0.3	21.7	21.7	142.2	+2.3	9.7	8.3	1.7	]	7			
IM10	Sunny	Moderate	16:13	7.3	Middle	3.7	0.2	264	28.3	28.3	8.1	8.1	24.1	24.1	101.4	01.4	6.9	0.5	3.1	2.7	7	8	822231	809832
	Curry	Woderate	10.10	7.0	Wildele	3.7	0.2	271	28.3	20.0	8.1	0.1	24.1	2-7.1	101.3	J1T	6.9		3.1		7		022201	000002
					Bottom	6.3	0.2	247	28.3	28.3	8.1	8.1	24.2	24.2	101.5	01.6	6.9	6.9	3.3	[	7			
						6.3	0.2	248	28.3		8.1	•	24.2		101.6		6.9		3.5		9			
					Surface	1.0	0.2	272	29.0	29.0	8.3	8.3	21.5	21.5	135.9	35.8	9.3		2.1		7			
						1.0	0.3	274	29.0		8.3		21.5		135.6		9.3	8.7	2.1		7			
IM11	Sunny	Moderate	16:20	7.4	Middle	3.7	0.3	279	28.5	28.5	8.1	8.1	23.3	23.3	119.6	19.5	8.2		2.2	2.3	6	7	821492	810530
	-					3.7	0.3	280	28.5		8.1		23.3		119.3		8.1		2.3	-	7			
					Bottom	6.4	0.2	277	28.4	28.4	8.1 8.1	8.1	23.7	23.7	115.0	15.1	7.8	7.9	2.8	ļ	7			
					I	6.4	0.2	270 292	28.4		_		_		115.1		7.9		2.7	<u> </u>	8			
					Surface	1.0	0.3	292	28.8 28.8	28.8	8.2 8.2	8.2	22.1	22.1	128.5 128.3	28.4	8.8		2.0	ł	8 7			
						4.0	0.3	293	28.5		8.1		23.8		44E 7		7.9	8.4	4.3	1	6			
IM12	Sunny	Moderate	16:28	8.0	Middle	4.0	0.3	260	28.5	28.5	8.1	8.1	23.8	23.8	115.7	15.7	7.9		4.3	3.8	6	7	821140	811534
						7.0	0.3	282	28.5		8.1		23.8		116.0		7.9		5.1	ł	8			
					Bottom	7.0	0.4	275	28.5	28.5	8.1	8.1	23.8	23.8	116.1	16.1	7.9	7.9	5.2	ł	9			
						1.0	0.0	181	28.9		8.2		23.7		120.7		8.8		1.2		6			
					Surface	1.0	0.1	187	28.9	28.9	8.2	8.2	23.7	23.7	129.4	29.6	8.8		1.2	i	6			
0044			40.50			2.8	-	205	-		-		-		-		-	8.8	-	١	-	_	0.400==	0.40050
SR1A	Sunny	Moderate	16:56	5.6	Middle	2.8	0.0	198	-	-	-	-	-	1 - 1	-	-	-		-	4.4	-	7	819977	812658
					Bottom	4.6	-	180	28.5	28.5	8.1	8.1	24.4	24.4	107.9	07.8	7.3	7.3	7.8	İ	8			
					Bottom	4.6	0.0	181	28.5	26.5	8.1	0.1	24.4	24.4	107.7	37.6	7.3	7.3	7.7		7			
					Surface	1.0	0.1	218	28.5	28.5	8.2	8.2	23.7	23.7	114.0	13.9	7.8		2.2		6			
					Gunacc	1.0	0.1	221	28.5	20.5	8.2	0.2	23.7	20.1	113.8	10.0	7.7	7.8	2.2		8			
SR2	Sunny	Moderate	17:14	5.6	Middle	-	0.1	225	-	_	-	_	-	] .	-		-	1.0	-	3.1	-	7	821465	814144
0.12	- Cuy	moderate		0.0	- Initiality	-	0.1	227	-		-		-		-		-		-	0	-	·	0200	0
					Bottom	4.6	0.1	235	28.3	28.3	8.1	8.1	24.2	24.2	103.9	04.0	7.1	7.1	4.1	ļ	6			
						4.6	0.1	228	28.3		8.1		24.2		104.1		7.1		4.0		6			
					Surface	1.0	0.0	231	28.5	28.5	8.2	8.2	27.0	27.1	102.5	02.5	6.8		5.4		7			
						1.0	0.1	238	28.5		8.2		27.1		102.4		6.8	6.4	5.4		6			
SR3	Sunny	Moderate	16:52	8.2	Middle	4.1	0.0	212 207	28.3 28.2	28.3	8.1 8.1	8.1	28.3	28.3	90.5	0.5	6.0		6.2 6.2	6.3	6	6	822155	807586
						7.2	0.0	196			_								7.2	-	6			
					Bottom	7.2	0.1	190	28.2	28.2	8.1 8.1	8.1	28.8	28.8	85.3 85.3	5.3	5.7	5.7	7.3	}	6 7			
						1.0	0.1	215	29.1		8.4		26.1		127.6		9.2		3.5	<u> </u>	7			
					Surface	1.0	0.1	222	29.1	29.1	8.4	8.4	26.1	26.1	137.5	37.6	0.2		3.5	-	5			
						5.0	-	227	28.7		8.3		26.1		120.2		8.6	8.9	3.8	ł	7			
SR4A	Sunny	Moderate	18:34	9.9	Middle	5.0	0.0	230	28.7	28.7	8.3	8.3	26.1	26.1	129.3	29.3	8.6		3.8	3.6	8	7	817186	807787
						8.9	0.0	233	28.5		8.3		26.7		112.2		7.5		3.7	ł	8			
					Bottom	8.9	0.0	234	28.5	28.5	8.3	8.3	26.7	26.7	112.4	12.3	7.5	7.5	3.7	1	7			
					Cunform	1.0	-	-	28.9	20.0	8.2	0.0	23.7	22.7	126.3	26.2	8.5		1.8		7			
					Surface	1.0	-	-	28.8	28.9	8.2	8.2	23.7	23.7	126.3	26.3	8.5	ا ہ	1.7	1	8			
SR8	C	Madaust-	10.24	4.0	Middle	-	-	-	-		-		-		-		-	8.5	-	1.0	-	8	000400	811624
910	Sunny	Moderate	16:34	4.2	ivildale	-	-	-	-	-	-	-	-	1 - 1	-	-	-		-	1.8	-	°	820409	011024
					Bottom	3.2	-	-	28.8	28.8	8.2	8.2	23.7	23.7	118.3	18.2	8.0	8.0	1.9		9			
					DOLLOITI	3.2	-	-	28.8	20.0	8.2	0.2	23.8	23.1	118.1	10.2	8.0	0.0	1.9		9			

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

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

Water Quality Monitoring Results on

28 September 23 during Mid-Ebb Tide

Name   Name	water Quai	ity worm	oring Resu	its on		28 September 23	during wid-		<del>,</del>																
Condition   Cond		Weather	Sea	Sampling	Water	Sampling Don't	h (m)		Current	Water Te	emperature (°C)		pН	Salin	nity (ppt)	DOS				Turbidity	(NTU)				
Sum   Moderate   11-21   8.7   Sum   Moderate   11-21   8.7   Sum   Moderate   11-21   8.7   Middle   4.4   0.4   195   285   285   285   8.0   8.0   22.7   28.7   8.7   8.8   8.0   28.7   8.0   8.0	Station	Condition	Condition	Time	Depth (m)	Sampling Depti	II (III)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA		
C1 Sumy Moderate 11.21 8.7 Middle 4.4 0.4 195 285 8.0 8.0 28.5 8.0 8.0 28.7 28.7 28.7 87.9 87.9 5.8 6.0 6.2 15 6.2 10 10 10 10 10 10 10 10 10 10 10 10 10						Curfoso	1.0	0.4	205	28.9	20.0	8.0	9.0	26.5	26.5	91.2	01.2	6.1		1.5		10			
C1 Sunny Moderate 11:21 8.7 Middle 4.4 0.4 192 285 285 8.0 8.0 2.7 27.7 67.8 8.7 8.7 8.0 8.0 8.0 2.7 87.8 8.7 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0						Surface	1.0	0.3	201	28.9	20.9	8.0	6.0	26.5	20.5	91.1	91.2	6.1	6.0	1.5	1	9			
Moderate   13-20   12-4   Middle   14-20   15-20   1	C1	Suppy	Madarata	11:01	0.7	Middle	4.4	0.4	195	28.5	20 5	8.0	0.0	28.7	20.7	87.9	97.0	5.8	6.0	6.9	6.1	9	10	015614	004240
Sum   Moderate   13.20   12.4   Middle   13.20   12.4   Middle   13.20   12.4   Middle   13.20   12.4   Middle   13.20   13.	l Ci	Suring	Moderate	11.21	0.7	Middle	4.4	0.4	192	28.5	20.3	8.0	6.0	28.7	20.7	87.8	07.9	5.8		6.2	0.1	10	10	013014	004240
Surface   10						Rottom		0.3	190	28.5	28.5	8.0	8.0		20.0	88.3	99.4	5.8	5.0		Ī	10			
Case   Part   Moderate   Part   Moderate   Part   Part   Moderate   Part   Pa						Dottom		0.3	186	28.5	20.5	8.0	0.0	29.0	29.0	88.4	00.4	5.8	5.0	10.5		10			
C2   Sunny   Moderate   13:20   12:4     Middle   62   0.6   173   28.6   28.6   8.0   8.0   25.5   25.8   87.4   5.9   10.2   77   9   9   825704   806936						Surface					20.2		8.0		24.0	93.5	03.5					9			
C2   Sumy   Moderate   13:20   12:4   Middle   6.2   0.6   130   28.6   28.6   8.0   8.0   28.5   28.5   8.0   8.0   28.5   28.5   8.0   8.0   28.0   28.0   8.0   8.0   28.0						Surface				29.2	29.2	8.0	0.0		24.0		93.3		6.1			9			
Bottom   11.4   0.7   15.2   2.8   2.8   8.0   2.6   8.0   2.6   8.0   2.6   8.0   8.0   2.6   8.0	Co	Suppy	Modorato	13:20	12.4	Middle		0.6	173	28.6	28.6		8.0		25.5	87.4	Q7 /	5.9	0.1	10.2	77	9	٥	925704	806036
Sunny Moderate 10:51 12:6 Solfton 11:4 0.6 155 28.5 28.6 8.0 8.0 26.0 8.0 8.0 26.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8	02	Suring	Moderate	13.20	12.4	Middle		0.6		28.6	20.0	8.0	0.0		23.3	87.4	07.4	5.9		10.2	<i>'.'</i>	9	9	023704	800930
Sumy Moderate 10.51 12.6						Bottom					28.5		8.0		26.0	88.7	88 0		6.0						
Suny Moderate   10.51   12.6   Middle   6.3   0.4   84   28.2   28.2   8.0   8.0   29.9   29.9   81.3   81.2   5.4   4.2   4.2   8.0   8.0   8.0   29.9   81.3   81.2   5.4   4.2   4.2   8.0   8.0   8.0   29.9   81.3   81.2   5.4   4.2   4.2   8.0   8						Dottom			155	28.5	20.5	8.0	0.0		20.0		00.3		0.0	10.9		9			
Sunny   Moderate   10:51   12.6   Middle   6:3   0.4   84   28.2   28.2   8.0   8.0   29.9   29.9   81.3   81.2   5.4   5.4   4.2   4.6   8.9   9   822125   817794						Surface					28.6	8.0	8.0	28.6	28.7	88.8	88.8								
Sunny   Moderate   10.51   12.6   Middle   6.3   0.4   84   28.2   28.2   8.0   8.0   29.9   29.9   81.3   81.2   5.4   4.1   4.6   8   9   9   821125   817794						Guriace			91	28.5	20.0		0.0		20.7		00.0		5.7	3.6		9			
Bottom   11.6	C3	Sunny	Moderate	10:51	12.6	Middle					28.2	8.0	8.0	29.9	20.0	81.3	81.2	5.4	5.7		16		a	822125	81770/
Moderate   11:50   6.4   Surface   11:50   6.4   Middle   3.2   0.3   183   28.8   8.0   8.0   27.4   27.4   88.6   8.5   5.9   5.8   5.5   6.	03	Guilly	Moderate	10.51	12.0	Middle					20.2		0.0		23.3		01.2				7.0		3	022123	017754
Middle   11:50   Surface   11:50   Surface   11:50   Surface   11:50   Surface   10:0   0.3   183   28.8   28.5   8.0   8.0   27.5   27.6   88.6   8.5   5.9   5.8   6.6   8.5   10:0						Bottom					28.2	8.0	8.0		30.7	78.9	78.9	5.2	5.2			_			
Middle   11:50   6.4   Middle   12:44   8.2   Middle   13:50   6.4   Middle   14:50   6.5   Middle   15:50   6.4   Middle   15:50   6.4   Middle   15:50   6.5   Middle   15:50   6.5   Middle   15:50   Middle						Bottom				28.2	20.2	8.0	0.0	30.7	00.7	78.9	70.0	5.2	0.2	6.0		8			
Midle   Sunny   Moderate   Mode						Surface					28.8		8.0		27.4	88.4	88.5								
Mide   Sunny   Moderate   11:50   6.4   Middle   3.2   0.3   20.0   28.7   28.7   8.0   8.0   27.6   27.6   27.6   27.6   36.3   86.3   5.7   5.7   5.6   6.5   8.0   9   10   818351   806458						Gundoo					20.0		0.0		27.4		00.0	5.9	5.8	4.9	]	10			
Bottom 5.4 0.4 173 28.5 28.5 8.0 8.0 8.0 28.4 28.4 86.5 86.7 5.7 5.8 13.3 10 10 10 10 10 10 10 10 10 10 10 10 10	IM1	Sunny	Moderate	11:50	6.4	Middle					28.7		8.0		27.6	86.3	86.3	5.7	0.0		8.3		10	818351	806458
Moderate   11:56   Form   Fo			moderate	100	0	auto				28.7	20		0.0		27.0		00.0				0.0			0.000.	000.00
Moderate   11:56   7.2   Surface   1.0   0.4   209   28.5   28.5   8.0   8.0   27.4   27.4   85.2   85.3   5.7   5.7   8.5   9.0   10   10   10   10   10   10   10						Bottom					28.5		8.0		28.4	86.5	86.7		5.8		[				
Moderate   11:56   7.2   Middle   13:6   7.2   Middle   13:6   7.2   Middle   14:56   7.2   Middle   15:6   7.2   7.						20tto					20.0		0.0		20		00		0.0						
Moderate   11:56   7.2   Middle   13:6   7.2   Middle   14:56   7.2   Middle   15:6   7.2   Middle   15:6   7.2   Middle   16:2   7.2   Middle   16:2   7.2   Middle   16:2   7.2   Middle   16:2   7.2   Middle   16:2   7.2   Middle   16:2   7.2   Middle   16:2   7.2   Middle   16:2   7.2   Middle   16:2   7.2   Middle   16:2   7.2   Middle   16:2   7.2   Middle   16:2   7.2   Middle   16:2   7.2   Middle   16:2   7.2   Middle   16:2   7.2   Middle   16:2   7.2   Middle   16:2   7.						Surface					28.5		8.0		27.4	85.2	85.3								
Marting   Moderate   11:56   7.2   Middle   3.6   0.4   198   28.5   28.5   8.0   8.0   27.4   27.4   88.1   85.2   85.2   5.7   9.2   10.5   10   10   819206   806237						Gunass							0.0				00.0		5.7						
Bottom 6.2 0.3 204 28.4 28.4 28.4 28.4 28.4 28.4 28.4 28.	IM2	Sunny	Moderate	11:56	72	Middle					28.5		8.0		27.4	85.1	85.2		0		10.5		10	819206	806237
Bottom 6.2 0.3 207 28.4 28.4 8.0 8.0 27.9 27.9 86.0 85.9 5.7 5.7 13.2 10  Surface 1.0 0.3 199 29.0 29.0 8.0 8.0 8.0 25.2 25.2 91.3 91.3 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1			moderate	11.00		madio							0.0				00.2				10.0			0.0200	000201
Moderate   12:44   8.2   Middle   4.1   0.3   207   28.5   28.5   8.0   8.0   27.9   86.0   5.7   13.2   10						Bottom					28.4	8.0	8.0	27.9	27.9	85.8	85.9		5.7						
Moderate   12:44   8.2   Surface   1.0   0.2   195   29.0   29.0   8.0   8.0   25.2   25.2   91.2   91.3   6.1   5.9   3.8   6.3						20tto							0.0		27.0				0						
IM7 Sunny Moderate 12:44 8.2 Middle 4.1 0.3 203 28.5 28.5 8.0 8.0 26.0 26.0 26.0 84.9 84.9 5.7 5.7 5.7 5.7 11.8 11 821369 806843						Surface					29.0	8.0	8.0		25.2	91.3	91.3								
IM7     Sunny     Moderate     12:44     8.2     Middle     4.1     0.3     203     28.5     28.5     8.0     8.0     8.0     26.0     26.0     84.9     5.7     6.3     7.3     11     11     821369     806843       Rettern     7.2     0.3     198     28.5     38.5     8.0     8.0     27.0     27.0     85.6     95.7     5.7     5.7     11.8											20.0	_	0.0				00	6.1	5.9						
4.1 0.3 207 28.5 8.0 26.1 84.8 5.7 6.7 10  Rottom 7.2 0.3 198 28.5 28.5 8.0 8.0 27.0 27.0 85.6 85.7 5.7 11.8 12	IM7	Sunny	Moderate	12:44	8.2	Middle					28.5	8.0	8.0		26.0	84.9	84.9	5.7	2.0		7.3		11	821369	806843
					3.2												20						• •	==:000	
						Bottom					28.5	8.0	8.0		27.0		85.7		5.7						
A: Don'th Averaged						25ttom	7.2	0.3	200	28.5	23.0	8.0	0.0	27.0		85.7	55.1	5.7	0.7	11.7		11			

DA: Depth-Averaged

Water Quality Monitoring Results on

28 September 23 during Mid-Ebb Tide

vvaler Quar	11.01111	orning recou	100 011		20 September 23	uaring iii.u																		
Monitoring	Weather	Sea	Sampling	Water	0	h (m)	Current Speed	Current	Water Te	emperature (°C)		рН	Salir	nity (ppt)		aturation %)	Disso Oxy		Turbidity	(NTU)	Suspended (mg/l		Coordinate	Coordinate
Station	Condition	Condition	Time	Depth (m)	Sampling Depti	n (m)	(m/s)	Direction	Value	Average	Value	Average	Value	Average		Average		DA	Value	DA	Value	DA	HK Grid (Northing)	HK Grid (Easting)
					Surface	1.0	0.4	126	28.7	28.7	8.2	8.2	27.4	27.4	92.5	00.4	6.1		4.8		10			
					Surface	1.0	0.4	125	28.7	20.7	8.2	0.2	27.5	27.4	92.3	92.4	6.1	6.1	4.9	1	8			
IM10	Sunny	Moderate	12:04	8.6	Middle	4.3	0.5	103	28.6	28.6	8.2	8.2	27.8	27.8	92.0	92.0	6.1	0.1	6.0	5.8	10	9	822243	809861
10010	Curry	Moderate	12.04	0.0	Wilduio	4.3	0.5	110	28.6	20.0	8.2	0.2	27.8	27.0	92.0	02.0	6.1		6.0	0.0	9	J	022240	000001
					Bottom	7.6	0.5	117	28.4	28.4	8.2	8.2	28.0	28.0	92.6	92.7	6.2	6.2	6.6		9			
						7.6	0.5	114	28.4		8.2		28.0		92.8		6.2		6.5		9			
					Surface	1.0	0.6	93	28.9	28.9	8.1	8.1	27.4	27.4	96.7	96.6	6.4		4.4	-	10			
						1.0 4.5	0.6	100 90	28.8		8.1		27.4		96.4		6.4	6.2	4.4 5.1	ł	9			
IM11	Sunny	Moderate	11:58	9.0	Middle	4.5	0.6	95	28.6 28.6	28.6	8.1 8.1	8.1	27.9 27.9	27.9	88.3 88.3	88.3	5.9 5.9		5.1	5.4	10	9	821479	810534
						8.0	0.6	74	28.7		8.1		27.8		89.3		5.9		6.6	1	8			
					Bottom	8.0	0.6	72	28.8	28.8	8.1	8.1	27.7	27.8	89.7	89.5	5.9	5.9	6.5	1	9			
						1.0	0.6	113	28.9		8.1		27.2		93.9		6.2		3.1		10		l	l
					Surface	1.0	0.5	114	28.9	28.9	8.1	8.1	27.2	27.2	93.9	93.9	6.2		3.1	i	9			
						4.1	0.6	102	28.6		8.1		27.9		86.6		5.8	6.0	4.1		11			
IM12	Sunny	Moderate	11:52	8.2	Middle	4.1	0.6	97	28.6	28.6	8.1	8.1	27.9	27.9	86.4	86.5	5.7		4.1	4.2	10	10	821158	811538
					D.#	7.2	0.6	92	28.6	28.6	8.1	8.1	28.0	00.0	87.2	07.0	5.8	5.8	5.4	1	10			
					Bottom	7.2	0.5	85	28.6	26.0	8.1	0.1	28.0	28.0	87.3	87.3	5.8	5.6	5.4	1	11			
					Surface	1.0	-	70	28.8	28.8	8.1	8.1	27.2	27.2	94.8	94.9	6.3		5.2		11			
					Surface	1.0	0.0	75	28.8	20.0	8.1	0.1	27.2	21.2	94.9	94.9	6.3	6.3	5.2	1	10			
SR1A	Sunny	Moderate	11:30	3.8	Middle	1.9	0.0	79	-	_	-	_	-		-	_	-	0.5	-	5.6	-	10	819970	812660
OKIA	Curiny	Woderate	11.50	3.0	IVIIdaic	1.9	-	77	-		-	_	-		-		-		-	3.0	-	10	013370	012000
					Bottom	2.8	0.1	44	28.5	28.5	8.2	8.2	27.4	27.5	95.8	96.0	6.4	6.4	6.0		9			
						2.8	0.1	47	28.4		8.2		27.5		96.1		6.4		6.0		9			
					Surface	1.0	0.5	50	28.9	28.9	8.2	8.2	26.7	26.7	97.9	97.9	6.5		4.0	1	9			
						1.0	0.5	56	28.9		8.2		26.8		97.8		6.5	6.5	4.0	ļ	- 8			
SR2	Sunny	Moderate	11:18	4.6	Middle	-	0.5	56	-	-	-	-	-	-	-	-	-		-	4.0	-	9	821452	814147
						3.6	0.5 0.5	53 26	28.9		-		- 27.0		- 04.5		-		4.0	-	9			
					Bottom	3.6	0.5	30	28.9	28.9	8.2 8.2	8.2	27.2	27.2	94.5	94.7	6.3	6.3	4.0	-	9			
						1.0	0.5	158	29.1		8.0		24.6		94.0		6.3		4.0		12			
					Surface	1.0	0.5	159	29.1	29.1	8.0	8.0	24.6	24.6	94.1	94.2	6.3		4.2	1	11			
						4.8	0.5	169	28.8		8.0		25.4		89.1		6.0	6.2	6.0	†	11			
SR3	Sunny	Moderate	12:51	9.6	Middle	4.8	0.5	165	28.8	28.8	8.0	8.0	25.4	25.4	88.9	89.0	6.0		6.3	6.6	11	11	822164	807549
					5.4	8.6	0.5	173	28.5	20.5	8.0		26.5		86.4		5.8		9.5	†	11			
					Bottom	8.6	0.5	179	28.5	28.5	8.0	8.0	26.5	26.5	86.6	86.5	5.8	5.8	9.5	1	10			
					Surface	1.0	0.0	111	28.9	20.0	8.0	8.0	26.9	26.0	87.3	07.2	5.8		3.4		10			
					Surface	1.0	0.0	111	28.9	28.9	8.0	0.0	26.9	26.9	87.3	87.3	5.8	5.7	3.3	1	11			
SR4A	Sunny	Moderate	10:51	9.2	Middle	4.6	0.0	119	28.4	28.4	7.9	7.9	27.9	27.9	82.9	82.9	5.5	5.7	3.1	4.0	10	10	817202	807811
01147	Guilly	Moderate	10.51	3.2	iviidale	4.6	0.0	112	28.4	20.7	7.9	1.5	27.9	21.3	82.9	02.0	5.5		3.2	1 7.0	10	10	017202	007011
					Bottom	8.2	0.0	105	28.4	28.4	7.9	7.9	28.0	28.0	83.4	83.4	5.6	5.6	5.5		9			
			<u> </u>		20.000	8.2	0.1	110	28.4	25.7	7.9		28.0		83.4	55.7	5.6	5.0	5.6		10			
					Surface	1.0	-	-	28.8	28.8	8.2	8.2	27.3	27.3	91.9	91.9	6.1		7.3	1	6			
						1.0	-	-	28.8		8.2		27.3		91.9		6.1	6.1	7.2	1	7			
SR8	Sunny	Moderate	11:47	4.0	Middle	-	-	-	-	-	-		-		-	-	-		-	7.5	-	8	820385	811627
						-	-	-	-		-		-		-		-		-					
					Bottom	3.0	-	-	28.7	28.7	8.2	8.2	27.3	27.3	92.0	92.1	6.1	6.1	7.7	-	10			
			1			3.0	-	-	28.7		8.2		27.3		92.1		6.1		7.7		9			

Water Quality Monitoring Results on

28 September 23 during Mid-Flood Tide

Monitoring	Weather	Sea	Sampling	Water	Sampling Dept		Current Speed	Current	Water Te	emperature (°C)		pН	Salin	ity (ppt)		aturation (%)	Disso		Turbidity	(NTU)	Suspended (mg/L		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Gampling Dept	()	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.4	30	28.8	28.8	8.0	8.0	26.8	26.8	88.0	88.0	5.9		11.6		10			
					Gundoo	1.0	0.3	36	28.8	20.0	8.0	0.0	26.8	20.0	87.9	00.0	5.9	5.8	11.7		10			
C1	Fine	Moderate	18:49	9.1	Middle	4.6	0.3	21	28.5	28.5	8.0	8.0	27.9	27.9	86.4 86.5	86.5	5.7	3.0	5.9	8.4	10	10	815604	804256
	1 1110	Moderate	10.40	0.1	Middle	4.6	0.4	20	28.5	20.0	8.0	0.0	27.9	27.0	86.5	00.0	5.8		5.2	0.4	10		010004	004200
					Bottom	8.1	0.3	35	28.5	28.5	8.0	8.0	28.0	28.0	87.9	88.0	5.8	5.9	7.9	1	10			
					Bottom	8.1	0.3	36	28.5	20.0	8.0	0.0	28.0	20.0	88.1	00.0	5.9	0.0	7.8		9			
					Surface	1.0	0.1	183	29.1	29.1	8.0	8.0	24.2	24.2	92.8	92.7	6.2		3.2	1	11			
						1.0	0.1	176	29.1	20.1	8.0	0.0	24.3		92.6	02	6.2	6.0	3.3	1	10			
C2	Fine	Moderate	17:11	11.7	Middle	5.9	0.2	189	28.5	28.5	8.0	8.0	25.9	25.9	86.8	86.9	5.8		9.6	7.5	11	10	825681	806958
						5.9	0.1	195	28.5		8.0		26.0		87.0		5.8		9.8	1	10			
					Bottom	10.7	0.1	167	28.7	28.7	8.0	8.0	26.2	26.2	88.1 88.1	88.1	5.9	5.9	9.5	-	10			
						10.7	0.1	167	28.7		8.0		26.2				5.9		9.5		10			
					Surface	1.0	0.4	271 273	28.7 28.7	28.7	8.2 8.2	8.2	28.3	28.3	92.5 92.6	92.6	6.1		5.4	-	13 12			
						4.9	0.4	247									6.2	6.2	5.4	-				
C3	Fine	Moderate	18:13	9.8	Middle	4.9	0.5	247	28.7 28.7	28.7	8.2 8.2	8.2	28.3	28.3	93.6 93.6	93.6	6.2	-	6.3	6.3	12	12	822087	817814
						8.8	0.5	270	28.7		8.2		28.3		94.6		6.3		7.2	+	11			
					Bottom	8.8	0.5	269	28.7	28.7	8.2	8.2	28.3	28.3	94.9	94.8	6.3	6.3	7.1	+	10			
						1.0	0.2	26	28.7		8.0		27.1		85.6		5.7		6.3		9			
					Surface	1.0	0.1	21	28.7	28.7	8.0	8.0	27.1	27.1	85.6	85.6	5.7		6.0	1	10			
						4.2	0.1	29	28.6		8.0		27.3		85.7		5.7	5.7	5.9	1	11			
IM1	Fine	Moderate	18:19	8.4	Middle	4.2	0.1	33	28.6	28.6	8.0	8.0	27.3	27.3	85.8	85.8	5.7		5.9	7.0	10	11	818370	806458
					D.#	7.4	0.1	41	28.6	00.0	8.0	8.0	27.3	07.0	86.5	00.0	5.8	- 0	9.0		11			
					Bottom	7.4	0.2	34	28.6	28.6	8.0	8.0	27.3	27.3	86.7	86.6	5.8	5.8	9.1	1	12			
					Surface	1.0	0.1	324	28.8	28.8	8.0	8.0	27.2	27.2	88.5	88.5	5.9		7.2		10			
					Surface	1.0	0.1	324	28.8	20.0	8.0	0.0	27.2	21.2	88.4	00.5	5.9	5.7	6.9		10			
IM2	Fine	Moderate	18:15	6.4	Middle	3.2	0.1	343	28.5	28.5	8.0	8.0	27.8	27.8	83.2	83.4	5.5	5.7	9.5	9.2	9	9	819198	806251
11112	1 1110	Woderate	10.13	0.4	Middle	3.2	0.1	342	28.5	20.5	8.0	0.0	27.8	21.0	83.5	00.4	5.6		9.5	3.2	9	١	013130	000231
					Bottom	5.4	0.1	340	28.5	28.5	8.0	8.0	27.8	27.8	85.8 86.2	86.0	5.7	5.7	11.1		9			
					20110111	5.4	0.2	339	28.5	20.0		0.0	27.8	21.0		00.0	5.7	0	11.2		9			
					Surface	1.0	0.2	286	29.2	29.2	8.0	8.0	24.5	24.5	96.0	95.9	6.4		3.1	1	10			
						1.0	0.2	292	29.2	-	8.0		24.5		95.8		6.4	6.2	3.2	1	9			
IM7	Fine	Moderate	17:41	7.3	Middle	3.7	0.2	278	28.9	28.9	8.0	8.0	25.4	25.4	89.9	89.9	6.0		3.4	5.2	8	9	821355	806822
						3.7	0.2	278	28.9		8.0		25.4		89.9		6.0		3.4	1	8			
					Bottom	6.3	0.2	267	28.6	28.6	8.0	8.0	26.2	26.2	88.5	88.6	5.9	5.9	9.0	4	8			
DA Darth Assa			<u> </u>		<u> </u>	6.3	0.1	260	28.6		8.0		26.2		88.6	<u> </u>	5.9		9.0	1	8			

DA: Depth-Averaged

## Expansion of Hong Kong International Airport into a Three-Runway System Water Quality Monitoring

Water Quality Monitoring Results on

28 September 23 during Mid-Flood Tide

	ity wont	oring Resu	its on		28 September 23	during mid-	1 1000 11	iue																
Monitoring	Weather	Sea	Sampling	Water	Sampling Dep	th (m)	Current Speed	Current	Water Te	emperature (°C)		pН	Salii	nity (ppt)		aturation (%)	Disso Oxyg		Turbidity(	NTU)	Suspende (mg		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Gampling Bop	ui (iii)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.2	259 255	28.9 28.8	28.9	8.2 8.2	8.2	27.1	27.2	96.2 96.3	96.3	6.4		5.4 5.4		8 9			
IM10		Madanta	47.40	0.4	MATALIE -	4.7	0.2	239	28.7	00.7	8.2	0.0	27.6	27.6	92.4	00.0	6.1	6.3	7.0	6.9	8		000004	000007
IIVIIU	Sunny	Moderate	17:16	9.4	Middle	4.7	0.2	237	28.7	28.7	8.2	8.2	27.6	27.0	92.7	92.6	6.2		7.0	6.9	10	9	822221	809837
					Bottom	8.4 8.4	0.2	237 241	28.9 28.9	28.9	8.2	8.2	27.2	27.1	94.2	94.4	6.3	6.3	8.2 8.2		10 9			
					0.1	1.0	0.2	259	29.1		8.2		27.1	07.0	96.7		6.4		4.8		9			
					Surface	1.0	0.3	261	29.1	29.1	8.2	8.2	27.2	27.2	96.4	96.6	6.4	6.3	4.8		9			
IM11	Sunny	Moderate	17:21	8.0	Middle	4.0	0.3	272	28.8	28.8	8.1	8.1	27.6	27.6	92.2	92.1	6.1	0.0	7.0	6.5	10	10	821480	810525
						7.0	0.4	271 281	28.8		8.1 8.1		27.6 27.8		92.0 92.9		6.1 6.2		6.9 7.9		10 10			
					Bottom	7.0	0.3	283	28.7	28.7	8.1	8.1	27.8	27.8	93.1	93.0	6.2	6.2	7.8		10			
					Curfees	1.0	0.3	260	28.8	20.0	8.1	0.4	27.4	27.5	95.2	0F 4	6.3		5.1		8			
					Surface	1.0	0.3	262	28.8	28.8	8.1	8.1	27.5	27.5	95.0	95.1	6.3	6.1	5.1		8			
IM12	Sunny	Moderate	17:25	8.6	Middle	4.3	0.3	257	28.6	28.6	8.1	8.1	27.9	27.9	87.9	88.0	5.8	0.1	6.0	6.4	9	9	821154	811516
						4.3 7.6	0.3	252 275	28.6 28.5		8.1		27.9 27.9		88.0 90.3		5.9 6.0		6.0 8.0		9 10			
					Bottom	7.6	0.3	280	28.5	28.5	8.1	8.1	27.9	27.9	90.5	90.4	6.0	6.0	8.0		10			
					Surface	1.0	0.0	197	28.9	28.9	8.1	8.1	27.2	27.2	93.7	93.7	6.2		3.4		10			
					Surface	1.0	-	190	28.9	26.9	8.1	0.1	27.3	21.2	93.7	93.7	6.2	6.2	3.4		11			
SR1A	Fine	Moderate	17:44	5.2	Middle	2.6	0.1	189	-	-	-		-		-	-	-	0.2	-	4.1	-	10	819981	812657
						2.6 4.2	0.0	189 172	-		-		- 27.2		- 04.0		-		- 4.7		- 10			
					Bottom	4.2	0.0	169	28.9 28.9	28.9	8.1	8.1	27.3	27.3	94.0	94.1	6.2	6.2	4.7		10			
					Ourford	1.0	0.2	239	28.9	00.0	8.2	0.0	27.4	07.4	98.5	00.4	6.5		5.9		12			
					Surface	1.0	0.2	238	28.9	28.9	8.2	8.2	27.4	27.4	98.3	98.4	6.5	6.5	5.9		11			
SR2	Fine	Moderate	17:56	4.4	Middle	-	0.2	228	-	_	-	١.	-	<b>.</b> .	-	_	-	0.5	-	6.2	-	11	821451	814161
						3.4	0.1	222 235	28.7				27.6		- 00 1		- 6 E		6.6		10			
					Bottom	3.4	0.1	234	28.7	28.7	8.2	8.2	27.6	27.6	98.1 98.6	98.4	6.5 6.5	6.5	6.6		10			
					Ourford	1.0	0.1	274	29.0	00.0	8.0	0.0	24.8	04.0	91.4	04.0	6.1		4.5		8			
					Surface	1.0	0.1	272	28.9	29.0	8.0	8.0	25.0	24.9	90.6	91.0	6.1	6.1	4.9		8			
SR3	Fine	Moderate	17:35	9.2	Middle	4.6	0.1	275	28.7	28.7	8.0	8.0	25.5	25.5	89.4	89.4	6.0	0.1	5.5	5.4	8	9	822124	807589
						4.6 8.2	0.1	272 250	28.7		8.0		25.5 25.7		89.4 89.3		6.0		5.5 6.0		9 10			
					Bottom	8.2	0.1	244	28.7	28.7	8.0	8.0	25.7	25.7	89.3	89.3	6.0	6.0	6.2		9			
					Surface	1.0	0.0	217	29.2	29.2	8.0	8.0	25.9	25.9	88.9	88.8	5.9		8.7		11			
					Surface	1.0	0.0	209	29.2	29.2	8.0	0.0	26.0	25.9	88.7	00.0	5.9	5.9	8.9		10			
SR4A	Fine	Moderate	19:29	9.0	Middle	4.5	0.1	216	28.9	28.9	8.0	8.0	26.4	26.4	87.7	87.7	5.8	0.0	11.6	11.1	9	10	817180	807808
						4.5 8.0	0.0	219 220	28.9		8.0		26.4		87.7		5.8		11.7 13.0		10 9			
					Bottom	8.0	0.0	222	28.8	28.8	8.0	8.0	26.5 26.5	26.5	88.2 88.4	88.3	5.9 5.9	5.9	13.0		10			
					Ourford	1.0	-	-	28.8	00.0	8.1	0.4	27.4	07.4	90.5	00.4	6.0		7.1		9			
					Surface	1.0	-	-	28.8	28.8	8.1	8.1	27.4	27.4	90.3	90.4	6.0	6.0	7.0		10			
SR8	Sunny	Moderate	17:29	5.2	Middle	-	-	-	-	-	-	-	-	-	-	-	-	0.0	-	7.6	-	10	820410	811631
-						- 4.2	-	-	- 20.6		- 0.1		27.5		- 00 0		-		- 0.1		- 10	-		
,			1 1		Bottom	4.2	-	-	28.6	28.6	8.1	8.1	27.5	27.5	88.9	88.9	5.9	5.9	8.1		10			1

DA: Depth-Averaged

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

<u>Value exceeding Action Level is underlined;</u> <u>Value exceeding Limit Level is bolded and underlined</u>

## Expansion of Hong Kong International Airport into a Three-Runway System Water Quality Monitoring

Water Quality Monitoring Results on

30 September 23 during Mid-Ebb Tide

Monitoring	Weather	Sea	Sampling	Water	Sampling Dept		Current Speed	Current	Water Te	emperature (°C)		pН	Salir	nity (ppt)		aturation (%)	Disso Oxy		Turbidity	(NTU)	Suspende (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Gampling Dept		(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.4	209	29.0	29.0	8.0	8.0	27.1	27.1	91.7	91.7	6.1		2.8		4			
					Surface	1.0	0.4	210	29.0	29.0	8.0	0.0	27.1	27.1	91.6	91.7	6.1	5.9	2.8		5			
C1	Sunny	Moderate	13:21	8.2	Middle	4.1	0.4	200	28.9	28.9	8.0	8.0	27.4	27.4	84.7 84.4	84.6	5.6	5.5	6.9	6.0	5	5	815618	804268
01	Curry	Woderate	10.21	0.2	Iviiduio	4.1	0.4	198	28.9	20.0	8.0	0.0	27.4	27		04.0	5.6		7.0	] 0.0	4	ŭ	010010	004200
					Bottom	7.2	0.4	225	28.9	28.9	8.0	8.0	27.6	27.6	84.9 85.1	85.0	5.6	5.6	8.2	1	4			
					Bottom	7.2	0.5	222	28.9	20.0	8.0	0.0	27.6	27.0		00.0	5.6	0.0	8.1		5			
					Surface	1.0	0.0	180	29.2	29.2	7.9	7.9	25.2	25.2	80.8	80.8	5.4		5.3		6			
					Curiuoc	1.0	0.1	174	29.2	20.2	7.9	7.0	25.3	20.2	80.7	00.0	5.4	5.4	5.8	1	7			
C2	Sunny	Moderate	11:48	12.2	Middle	6.1	0.0	157	29.0	29.0	7.9	7.9	25.7	25.7	81.2 81.4	81.3	5.4	0	9.9	8.5	7	7	825670	806928
02	Curry	Woderate	11.40	12.2	Iviiduio	6.1	0.0	153	29.0	20.0	7.9	7.0	25.7	20.7		01.0	5.4		9.1	] 0.0	6	•	020070	000020
					Bottom	11.2	0.1	170	29.0	29.0	7.9	7.9	26.9	26.9	81.8	81.8	5.4	5.4	10.2	1	9			
					Bottom	11.2	0.1	173	29.0	20.0	7.9	7.0	26.9	20.0	81.7	01.0	5.4	0.4	10.7		8			
					Surface	1.0	0.4	76	29.2	29.2	8.1	8.1	28.7	28.8	84.6	84.6	5.5		6.1	1	6			
						1.0	0.4	75	29.2	20.2	8.1	0	28.8	20.0	84.5	00	5.5	5.5	6.1	1	6			
СЗ	Fine	Moderate	12:52	9.4	Middle	4.7	0.4	67	29.1	29.1	8.1	8.1	29.1	29.1	84.6 84.8	84.7	5.5	0.0	7.2	7.1	6	6	822112	817790
	10	Woderate	12.02	0.4	Iviiduio	4.7	0.4	72	29.1	20.1	8.1	0.1	29.2	20.1		04.7	5.5		7.2	] '	7	ŭ	OZZITZ	017700
					Bottom	8.4	0.4	72	29.1	29.1	8.1	8.1	29.4	29.4	86.0	86.2	5.6	5.6	8.0	1	7			
						8.4	0.4	73	29.1		8.1		29.4		86.3	***-	5.6		8.0		6			
					Surface	1.0	0.3	176	29.9	30.0	8.0	8.0	26.0	26.0	96.7	96.8	6.4		1.6	1	5			
						1.0	0.3	170	30.0		8.0		26.0		96.8		6.4	6.2	1.4	1	4			
IM1	Sunny	Moderate	12:58	7.2	Middle	3.6	0.3	198	29.0	29.0	8.0	8.0	27.0	27.0	91.3 91.0	91.2	6.1		3.5	4.4	5	5	818346	806465
	1					3.6	0.3	200	29.0		8.0		27.1				6.0		3.5	1	4			
					Bottom	6.2	0.3	175	28.9	28.9	8.0	8.0	27.5	27.5	86.5 86.6	86.6	5.7	5.7	7.9	1	6			
						6.2	0.3	171	28.9		8.0		27.5				5.7		8.7		5			
					Surface	1.0	0.3	186	29.3	29.3	8.0	8.0	26.9	26.9	93.8	93.8	6.2		3.2	1	8			
						1.0	0.3	179	29.3		8.0		26.9		93.8		6.2	6.0	3.2	1	8			
IM2	Sunny	Moderate	12:53	7.0	Middle	3.5	0.2	180	28.9	28.9	8.0	8.0	27.5	27.5	88.2 88.0	88.1	5.8 5.8		4.7	5.6	7	7	819164	806249
	1					3.5	0.3	184	28.9		8.0		27.5						5.0	1	6			
					Bottom	6.0	0.2	205	28.9	28.9	8.0	8.0	27.7	27.7	87.6 87.7	87.7	5.8	5.8	8.6	1	6			
						6.0	0.2	200	28.9		8.0		27.7				5.8		8.6		5			
					Surface	1.0	0.2	100	29.4	29.4	7.9	7.9	25.0	25.0	86.0 86.1	86.1	5.7		3.1	1	5			
						1.0	0.2	94	29.4		8.0		25.0				5.7	5.7	3.4	1	6			
IM7	Sunny	Moderate	12:22	8.5	Middle	4.3	0.2	98	29.0	29.0	8.0	8.0	26.9	26.9	86.6	86.7	5.7		7.7	7.2	4	5	821343	806813
						4.3	0.2	103	29.0		8.0		27.0		86.7		5.7		8.0	4	5			
					Bottom	7.5	0.2	124	29.0	29.0	8.0	8.0	27.3	27.3	88.2 88.5	88.4	5.8	5.9	10.9	4	3			
						7.5	0.2	123	29.0		8.0		27.3		88.5		5.9		10.1	<u> </u>	4			<u> </u>

DA: Depth-Averaged

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

#### Expansion of Hong Kong International Airport into a Three-Runway System Water Quality Monitoring

Water Quality Monitoring Results on

30 September 23 during Mid-Ebb Tide

water Qua	ity moint	orning recou	110 011		30 September 23	during wild	LDD IIG	<u></u> _																
Monitoring	Weather	Sea	Sampling	Water	0 11 5		Current Speed	Current	Water Te	emperature (°C)		рН	Salir	nity (ppt)		aturation %)	Disso		Turbidity	(NTU)	Suspende (mg/		Coordinate	Coordinate
Station	Condition	Condition	Time	Depth (m)	Sampling Dept	:h (m)	(m/s)	Direction	Value	Average	Value	Average	Value	Average		Average	Value	DA	Value	DA	Value	DA	HK Grid (Northing)	HK Grid (Easting)
				İ	0	1.0	0.3	88	29.1	00.4	8.1	0.4	28.2	00.0	81.1	04.4	5.3		5.2		6			i
					Surface	1.0	0.3	86	29.1	29.1	8.1	8.1	28.3	28.2	81.1	81.1	5.3	5.4	5.2	1	7			
IM10	Sunny	Moderate	11:55	9.2	Middle	4.6	0.3	70	29.1	29.1	8.1	8.1	28.2	28.2	81.6	81.7	5.4	5.4	6.4	6.4	6	6	822241	809816
IIVITO	Suring	Woderate	11.55	9.2	Middle	4.6	0.3	75	29.1	29.1	8.1	0.1	28.2	20.2	81.7	01.7	5.4		6.5	0.4	5	U	022241	009010
					Bottom	8.2	0.2	91	29.1	29.1	8.0	8.0	28.2	28.2	82.1	82.2	5.4	5.4	7.7		5			
					201.0111	8.2	0.3	89	29.1	20	8.0	0.0	28.2	20.2	82.2	022	5.4	0	7.7		6			
					Surface	1.0	0.3	81	29.3	29.3	8.1	8.1	27.8	27.8	84.5	84.5	5.6		6.3		6			
						1.0	0.3	85	29.3		8.1		27.8		84.5		5.6	5.6	6.3		6			
IM11	Sunny	Moderate	11:59	7.2	Middle	3.6	0.4	102	29.3	29.3	8.1	8.1	27.8	27.8	84.9	85.0	5.6		7.6	7.6	6	6	821513	810528
	·					3.6	0.4	102	29.3		8.1		27.8		85.0		5.6		7.6	-	5			
					Bottom	6.2	0.3	88 87	29.3	29.3	8.0	8.0	27.8	27.8	86.7 87.3	87.0	5.7 5.7	5.7	8.8 8.8	1	5 6			
						1.0	0.3	93			_		_				5.7		2.3		7			
					Surface	1.0	0.3	89	29.4	29.4	8.1	8.1	27.2	27.3	86.7 86.8	86.8	5.7		2.3	1	6			
						4.1	0.3	85	29.4		8.1		27.5		86.8		5.7	5.7	3.8	1	6			
IM12	Sunny	Moderate	12:04	8.2	Middle	4.1	0.3	86	29.4	29.4	8.1	8.1	27.5	27.5	86.8	86.8	5.7		3.8	3.5	6	6	821167	811495
					_	7.2	0.4	93	29.4		8.1		27.6		87.7		5.8		4.3	1	5			
					Bottom	7.2	0.3	91	29.4	29.4	8.1	8.1	27.6	27.6	88.4	88.1	5.8	5.8	4.3	1	5			
				İ	0.6	1.0	0.0	32	29.7	00.7	8.1		27.6	07.0	86.1	00.0	5.6		4.1		6			i
					Surface	1.0	0.1	26	29.7	29.7	8.1	8.1	27.6	27.6	86.3	86.2	5.6		4.1	1	6			
SR1A	Fina	Madausta	10.00	4.0	Middle	2.1	0.0	23	-		-		-		-		-	5.6	-	4.4	-	6	819978	812665
SKIA	Fine	Moderate	12:23	4.2	Middle	2.1	0.1	19	-	-	-	1 -	-	1 -	-	-	-		-	4.4	- 1	О	019976	612000
					Bottom	3.2	0.0	16	29.7	29.7	8.1	8.1	27.7	27.7	87.9	88.4	5.7	5.8	4.8	1	6			
					Dottom	3.2	0.0	19	29.7	25.1	8.1	0.1	27.7	21.1	88.9	00.4	5.8	5.0	4.8		6			
					Surface	1.0	0.3	43	29.4	29.4	8.1	8.1	27.2	27.3	86.3	86.3	5.7		5.1		6			
						1.0	0.4	49	29.4	20.1	8.1	0	27.3		86.2		5.7	5.7	5.1		7			
SR2	Fine	Moderate	12:35	5.0	Middle	-	0.3	43	-	_	-		-		-	-	-		-	5.8	-	6	821442	814157
						-	0.3	45	-		-		-		-		-		-		-			
					Bottom	4.0	0.3	71	29.4	29.4	8.0	8.0	27.5	27.5	87.0	87.2	5.7	5.7	6.6		5			
						4.0	0.3	64	29.4		8.0		27.5		87.3		5.7		6.6		5			
					Surface	1.0	0.2	145 140	29.3	29.3	7.9	7.9	25.0 25.1	25.1	80.8 80.7	80.8	5.4		7.4	1	3			
						4.8	0.2	128	29.3		7.9		25.8		80.7		5.4 5.4	5.4	7.6 9.2	ł	4			
SR3	Sunny	Moderate	12:14	9.5	Middle	4.8	0.2	133	29.0	29.0	7.9	7.9	25.9	25.8	80.3	80.3	5.4		9.8	8.8	5	5	822136	807556
						8.5	0.2	119	29.0		7.9		26.2		78.6		5.2		9.3	1	6			
					Bottom	8.5	0.1	119	29.0	29.0	7.9	7.9	26.2	26.2	78.3	78.5	5.2	5.2	9.9	1	5			
			<del>                                     </del>			1.0	0.0	70	29.4		8.0		26.8	Ì	88.8		5.9		4.3		8			
					Surface	1.0	0.0	74	29.4	29.4	8.0	8.0	26.8	26.8	88.7	88.8	5.8		4.4	1	7			
0044		Madanta	40.00	0.0	NAC-L-III-	4.6	0.0	64	29.0	00.0	8.0	0.0	27.2	07.0	85.1	05.4	5.6	5.7	5.4	٠.,	8	0	047404	007000
SR4A	Sunny	Moderate	13:39	9.2	Middle	4.6	0.1	70	29.0	29.0	8.0	8.0	27.2	27.2	85.1	85.1	5.6		5.5	5.4	8	8	817191	807823
					Bottom	8.2	0.1	80	29.0	29.0	8.0	0.0	27.3	27.3	85.7	85.8	5.7	5.7	6.3	1	8			
					DULUIII	8.2	0.1	78	29.0	29.0	8.0	8.0	27.3	21.3	85.8	00.0	5.7	3.7	6.5		9			
					Surface	1.0	-	-	29.3	29.3	8.1	8.1	27.0	27.0	87.4	87.5	5.8		5.2		6			
					Guriace	1.0	-	-	29.3	29.5	8.1	J. 1	27.1	21.0	87.5	07.0	5.8	5.8	5.2		7			
SR8	Sunny	Moderate	12:08	5.2	Middle	-	-	-	-	_	-		-		-	_	-	0.0	-	5.7	-	7	820410	811612
5.10			1.2.00	5.2		-	-	-	-		-		-		-		-		-	ļ	-	•	0200	0
					Bottom	4.2	-	-	29.2	29.2	8.1	8.1	27.3	27.3	88.9	89.6	5.9	6.0	6.2	1	7			
						4.2	-	-	29.1	-	8.1		27.3		90.3		6.0		6.2		8			

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

## Expansion of Hong Kong International Airport into a Three-Runway System Water Quality Monitoring

Water Quality Monitoring Results on

30 September 23 during Mid-Flood Tide

Monitoring	Weather	Sea	Sampling	Water	Sampling Dept		Current Speed	Current	Water Te	emperature (°C)		pН	Salir	nity (ppt)	DO S	aturation (%)	Disso Oxy		Turbidity	/(NTU)	Suspende (mg		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Camping Bopt	()	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.4	24	29.2	29.2	8.0	8.0	25.8	25.7	92.2 92.2	92.2	6.1		2.5		4			
					Ourlace	1.0	0.4	27	29.2	25.2	8.0	0.0	25.7	25.7		32.2	6.1	6.1	2.3		4			
C1	Fine	Moderate	06:53	7.8	Middle	3.9	0.4	17	28.8	28.8	8.0	8.0	27.2	27.2	89.7 89.7	89.7	6.0	0.1	6.1	7.3	4	5	815602	804238
J 01	1 1110	Woderate	00.00	7.0	ivildale	3.9	0.4	14	28.8	20.0	8.0	0.0	27.2	21.2	89.7	03.7	6.0		6.2	1.5	4	3	013002	004230
					Bottom	6.8	0.4	53	28.8	28.8	8.0	8.0	27.9	27.9	89.3	89.3	5.9	5.9	13.1		5			
					Dottom	6.8	0.4	48	28.8	20.0	8.0	0.0	27.9	21.5	89.3	03.5	5.9	5.5	13.4		6			
					Surface	1.0	0.5	356	29.1	29.1	7.9	7.9	25.4	25.4	81.2 81.2	81.2	5.4		7.4		9			
					Ouriace	1.0	0.5	352	29.1	25.1	7.9	7.5	25.5	25.4		01.2	5.4	5.5	7.6		8			
C2	Fine	Moderate	08:33	11.7	Middle	5.9	0.5	346	29.0	29.0	7.9	7.9	25.7	25.7	82.1	82.2	5.5	0.0	7.6	8.8	8	8	825663	806936
02	"""	Woderate	00.00		Wilddio	5.9	0.5	340	29.0	20.0	7.9	7.0	25.8	20.7	82.3	02.2	5.5		7.4	0.0	7	O	020000	000000
					Bottom	10.7	0.5	3	29.0	29.0	7.9	7.9	26.9	26.9	83.6 83.6	83.6	5.5	5.5	11.4	1	7			
					20110111	10.7	0.5	3	29.0	20.0	7.9	1.0	26.9	20.0		00.0	5.5	0.0	11.3		6			
					Surface	1.0	0.6	248	29.5	29.5	8.0	8.0	28.9	28.9	84.8 84.9	84.9	5.5		2.7	1	7			
						1.0	0.6	247	29.4		8.0		29.0				5.5	5.4	2.8	1	8			
СЗ	Sunny	Moderate	07:40	12.0	Middle	6.0	0.6	263	29.0	29.0	8.0	8.0	30.0	30.0	80.2	80.2	5.2		3.1	3.1	5	6	822102	817781
	1					6.0	0.6	261	29.0		8.0		30.0		80.1		5.2		3.2	1	6			
					Bottom	11.0	0.6	277	29.0	29.1	8.0	8.0	30.1	30.1	81.1 81.4	81.3	5.3	5.3	3.3	4	5			
						11.0	0.6	276	29.1		8.0		30.1				5.3		3.3		5			
					Surface	1.0	0.3	13	29.0 29.0	29.0	8.0	8.0	26.9 27.0	26.9	90.1 89.8	90.0	6.0		4.8	1	4			
						1.0 3.4	0.2	11 359	28.9				27.5		89.8		6.0 5.8	5.9	5.0 6.2	+	3			
IM1	Fine	Moderate	07:20	6.7	Middle	3.4	0.2	352	28.9	28.9	8.0	8.0	27.5	27.5	88.0	88.1	5.8		6.3	5.8	4	3	818356	806467
						5.7	0.2	7	28.9		8.0		27.6				5.8		6.3	+	3			
					Bottom	5.7	0.2	7	28.9	28.9	8.0	8.0	27.6	27.6	88.3 88.3	88.3	5.8	5.8	6.2	+	3			
						1.0	0.2	9	29.1		8.0		26.7		91.6		6.1		4.5		6			
					Surface	1.0	0.3	7	29.1	29.1	8.0	8.0	26.7	26.7	91.4	91.5	6.1		5.0	†	5			
						3.7	0.3	26	28.9		8.0		27.5		89.4		5.9	6.0	10.4	†	6			
IM2	Fine	Moderate	07:26	7.4	Middle	3.7	0.3	21	28.9	28.9	8.0	8.0	27.5	27.5	89.4	89.4	5.9		10.8	9.1	5	6	819183	806245
					_	6.4	0.3	4	28.9		8.0		27.6				6.0		12.0	1	7			
					Bottom	6.4	0.3	357	28.9	28.9	8.0	8.0	27.6	27.6	90.8	91.0	6.0	6.0	12.0	1	7			
					0.1	1.0	0.3	12	29.5	00.5	7.9		24.4	040		04.7	5.7		3.7		6		i	i e
					Surface	1.0	0.3	5	29.5	29.5	7.9	7.9	24.3	24.3	84.6 84.8	84.7	5.7		3.7	1	5			
IM7	Fine	Moderate	08:00	0.5	Middle	4.3	0.3	16	29.0	29.0	8.0	8.0	26.3	26.4	85.7	85.8	5.7	5.7	4.5	5.7	6	6	821351	806836
IIVI7	Fine	Moderate	00:00	8.5	Middle	4.3	0.3	21	29.0	29.0	8.0	0.0	26.4	20.4	85.9	05.6	5.7		4.5	7 5.7	7	O	021301	000000
					Bottom	7.5	0.3	3	29.0	29.0	8.0	8.0	27.2	27.2	87.2	87.3	5.8	5.8	9.1	1	7			
					DULLUIII	7.5	0.3	359	29.0	29.0	8.0	0.0	27.2	21.2	87.3	07.3	5.8	5.6	9.0		6			

DA: Depth-Averaged

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

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

## Expansion of Hong Kong International Airport into a Three-Runway System Water Quality Monitoring

Water Quality Monitoring Results on

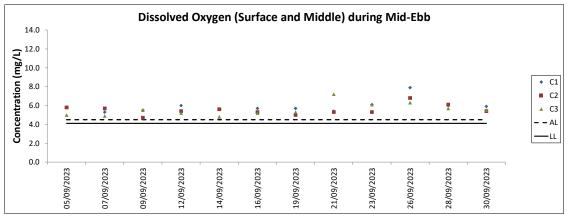
30 September 23 during Mid-Flood Tide

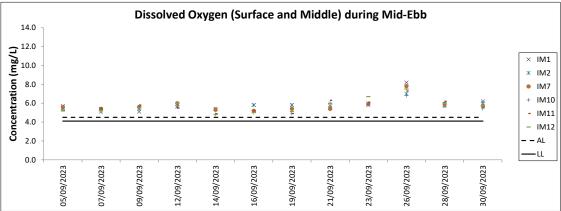
water Quan	<u></u>	<u> </u>			30 September 23	aaring ima		<u> </u>															
Monitoring	Weather	Sea	Sampling	Water	Samplis - De-	th (m)	Current Speed	Current	Water Te	emperature (°C)		pН	Salinity (ppt)	DOS	Saturation (%)	Disso Oxyg		Turbidity	(NTU)	Suspende (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling Dep	ui (ffi)	(m/s)	Direction	Value	Average	Value	Average	Value Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
				İ	Surface	1.0	0.4	304	29.1	29.1	8.0	8.0	28.3 28.3	82.7	82.7	5.4		7.1		5			
	'				Suriace	1.0	0.4	303	29.1	29.1	8.0	0.0	28.3	82.6	02.1	5.4	5.5	7.1		5			
IM10	Sunny	Moderate	08:53	8.2	Middle	4.1	0.4	304	29.1	29.1	8.0	8.0	28.3 28.3	83.0	83.1	5.5	ວ.ວ	8.9	8.3	6	6	822233	809818
"""	Curiny	Moderate	00.55	0.2	IVIIGGIG	4.1	0.4	306	29.1	20.1	8.0	0.0	28.3	83.2	00.1	5.5		8.9	] 0.5	7	ا	022200	003010
	'				Bottom	7.2	0.4	277	29.1	29.1	8.0	8.0	28.3	84.7	85.0	5.6	5.6	9.0		7			
					Bottom	7.2	0.3	281	29.1	20.1	8.0	0.0	28.3	85.2	00.0	5.6	0.0	9.0		7			
	·				Surface	1.0	0.5	276	29.3	29.3	8.1	8.1	27.2	87.7	87.8	5.8		5.9		8			
	'					1.0	0.4	283	29.2		8.1		27.3	87.8		5.8	5.8	5.9		7			
IM11	Sunny	Moderate	08:47	9.0	Middle	4.5	0.5	263	29.1	29.1	8.1	8.1	27.6	88.5	88.7	5.8		6.3	6.7	7	7	821507	810528
	· · ·					4.5	0.5	258	29.1		8.1		27.6	88.8	-	5.9		6.3		7			
	·				Bottom	8.0 8.0	0.5 0.5	279 284	29.1	29.1	8.1	8.1	27.6 27.6	89.7 90.4	90.1	5.9 6.0	6.0	7.9 8.0	-	6			
<del></del>	<del></del>		<del></del>	l I		1.0	0.5	284	29.1	l	_	<del>                                     </del>	27.2					3.6		5			
	·				Surface	1.0	0.5	285	29.2	29.2	8.1	8.1	27.2 27.3	85.3 85.4	85.4	5.6 5.6		3.5	1	6			
	'					3.6	0.5	268	29.2		8.1		27.7	86.2		5.7	5.7	4.9	-	6			
IM12	Sunny	Moderate	08:41	7.2	Middle	3.6	0.5	263	29.1	29.1	8.1	8.1	27.7 27.7	86.4	86.3	5.7		5.0	4.7	5	6	821144	811512
	'				_	6.2	0.5	266	29.1		8.1	<b>.</b>	27.0	88.2		5.8		5.5	1	7			
	'				Bottom	6.2	0.5	265	29.1	29.1	8.1	8.1	27.8 27.8	88.8	88.5	5.9	5.9	5.5		7			
	$\longrightarrow$		$\overline{}$			1.0	0.0	216	29.1		8.1	1	28.0	84.5	04.0	5.6		3.1		6			
	'				Surface	1.0	0.1	211	29.1	29.1	8.1	8.1	28.0	84.6	84.6	5.6	- 0	3.1	1	7			
CD41	Cun	Moderata	00:40	F 2	مالد لد (A	2.6	0.0	194	-		-		-	-		-	5.6	-	2.	- 1	ا ءِ ا	010000	010005
SR1A	Sunny	Moderate	08:19	5.2	Middle	2.6	0.0	188	-	1 -	-	1 -	-	-	1 -	-		-	3.6	-	6	819980	812665
	'				Bottom	4.2	0.1	195	28.9	28.9	8.1	8.1	28.2	86.6	86.9	5.7	5.7	4.1	1	5			
			نــــــــــــــــــــــــــــــــــــــ		DULUIII	4.2	0.1	192	28.9	20.9	8.1	0.1	28.2	87.2	00.9	5.7	J.1	4.1		6			
					Surface	1.0	0.1	250	29.3	29.3	8.0	8.0	28.2	83.0	83.0	5.4		3.5		5			
	'				Ouriace	1.0	0.0	246	29.3	20.0	8.0	0.0	28.2	82.9	00.0	5.4	5.4	3.5		6			
SR2	Sunny	Moderate	08:07	5.0	Middle	-	0.1	220	-	_	-	١.		-	1 .	-	J	-	4.0	-	6	821439	814149
			1			-	0.1	215	-		-		-	-		-		-		-	-		
	·				Bottom	4.0	0.1	222	29.2	29.2	8.0	8.0	28.3	83.8	83.9	5.5	5.5	4.4		6			
ļ			<del></del>			4.0	0.1	225	29.2		8.0		28.3	84.0		5.5		4.3		6			
	'				Surface	1.0	0.4	332	29.2	29.2	7.9	7.9	25.2 25.2	81.6	81.6	5.4		4.8		7			
	'					1.0	0.4	330	29.2		7.9		25.2	81.6	-	5.4	5.4	4.8		6			
SR3	Fine	Moderate	08:07	9.2	Middle	4.6	0.4	336 328	29.0	29.0	7.9	7.9	25.6 25.6 25.6	81.2 81.5	81.4	5.4 5.4		7.5 7.6	7.9	6	6	822147	807568
	'					8.2	0.5	326	29.0		7.9		26.0	85.1	+	5.7		11.4	1	5			
	'				Bottom	8.2	0.4	330	29.0	29.0	7.9	7.9	26.0 26.0	85.4	85.3	5.7	5.7	11.4		4			
<b> </b>	<del></del>		+	<u> </u>		1.0	0.4	222	29.0		7.9		27.0	86.4	+	5.7		7.0		4			
	'				Surface	1.0	0.0	227	29.0	29.0	7.9	7.9	27.0 27.0	86.4	86.4	5.7		7.1	ł	4			
	·					4.3	0.0	203	29.0		7.9	<u> </u>	27.1	86.3		5.7	5.7	8.2		4			
SR4A	Fine	Moderate	06:21	8.5	Middle	4.3	0.0	200	29.0	29.0	7.9	7.9	27.1 27.1	86.4	86.4	5.7		8.1	8.8	4	4	817169	807830
	'				D.#	7.5	0.0	235	29.0	00.0	7.9	7.0	27.2	86.9	07.0	5.8		11.1	1	5			
	'				Bottom	7.5	0.0	236	29.0	29.0	7.9	7.9	27.2 27.2	87.0	87.0	5.8	5.8	11.0	1	4			
					Curfoss	1.0	-	-	29.2	29.2	8.0	0.0	27.8	83.0	02.1	5.5		6.2		5			
	'				Surface	1.0	-	-	29.2	29.2	8.0	8.0	27.9 27.9	83.1	83.1	5.5	5.5	6.2	1	5			
SR8	Sunny	Moderate	08:36	4.0	Middle	-	-	-	-		-		-	-		-	ວ.ວ	-	6.6	-	5	820402	811603
JA0	Juility	woutrate	00.30	4.0	iviidale	-	-	-	-		-		-	-		-		-	0.0	-	J	020402	011003
	·				Bottom	3.0	-	-	29.2	29.2	8.0	8.0	28.0 28.0	83.7	83.9	5.5	5.5	7.0		6			
					Dottom	3.0	-	-	29.2	20.2	8.0	0.0	28.0	84.0	00.0	5.5	5.5	7.0		5			
A. Donth Avor																							

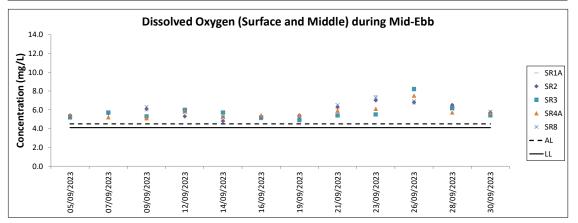
DA: Depth-Averaged

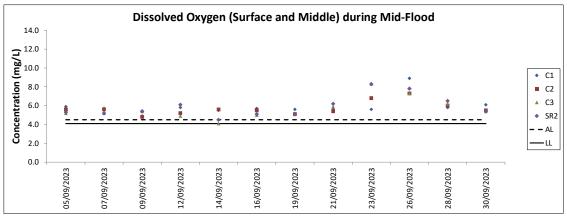
Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

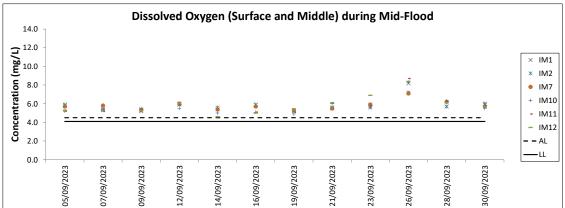
Value exceeding Action Level is underlined; Value exceeding Limit Level is bolded and underlined

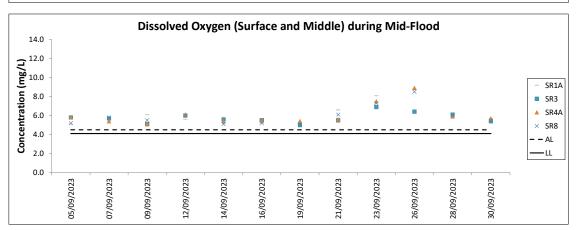


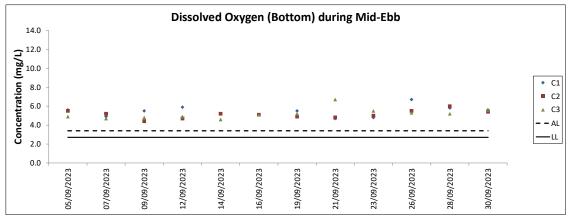


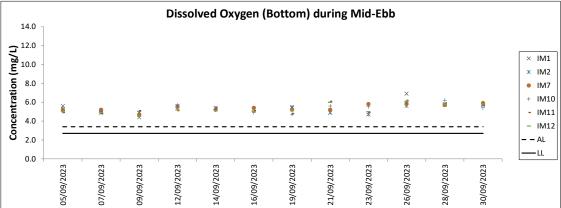


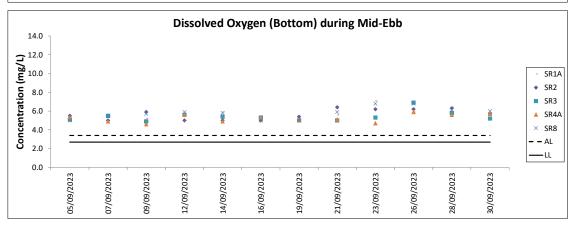


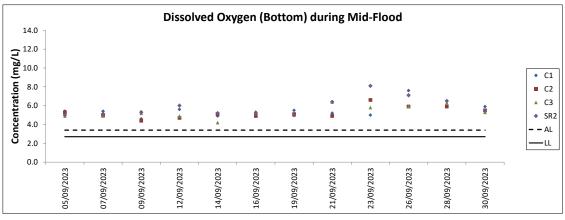


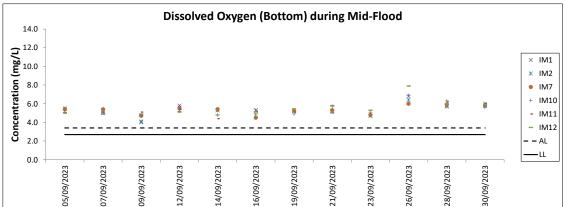


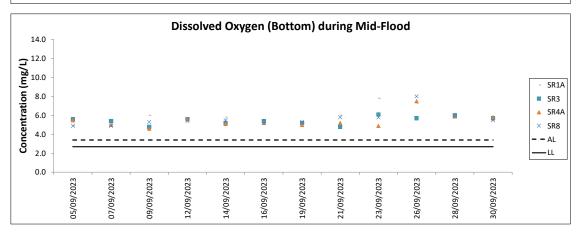


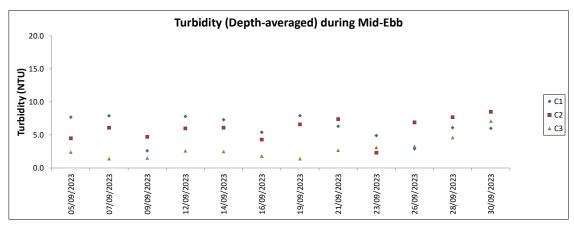


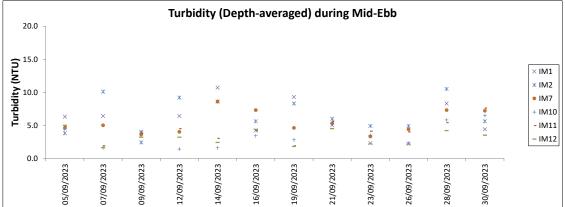


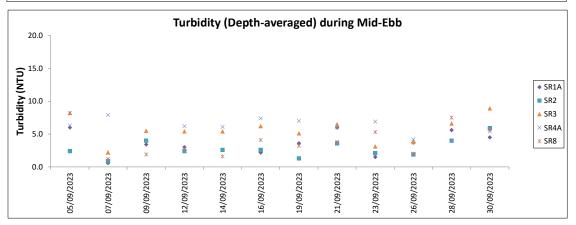


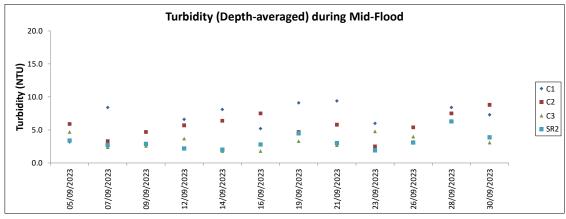


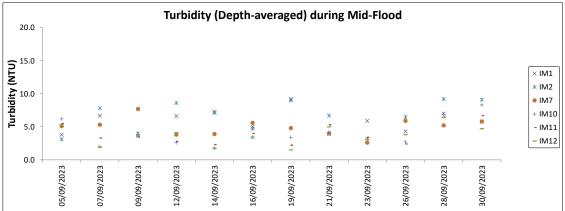


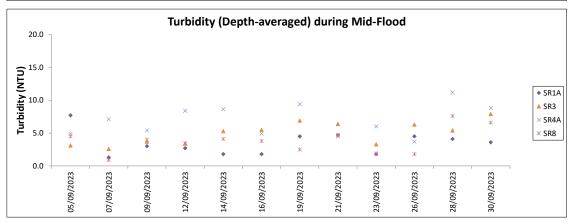


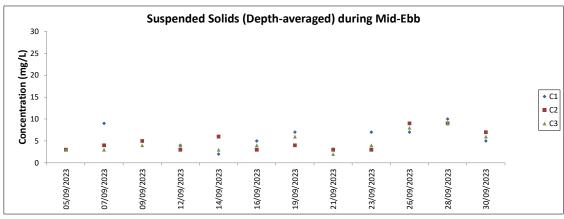


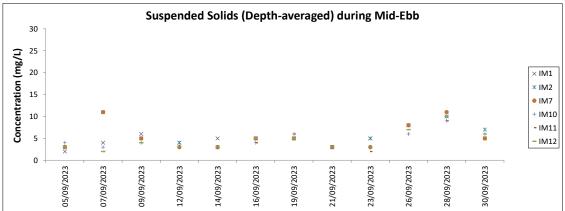


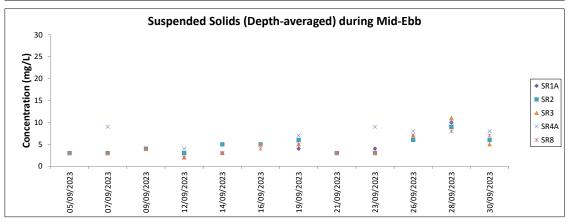


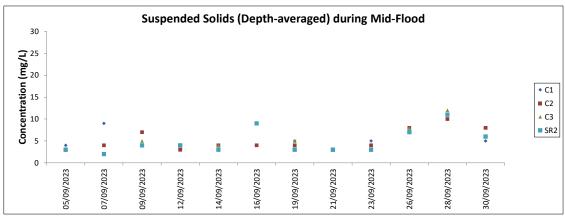


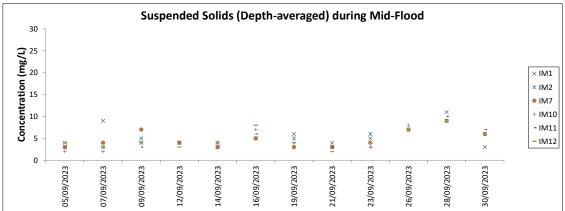


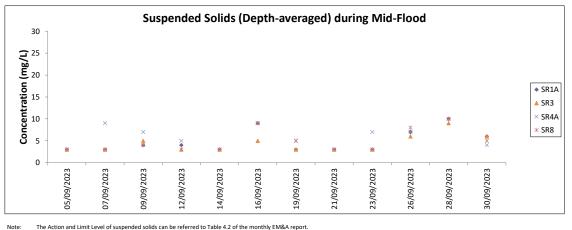












The Action and Limit Level of suspended solids can be referred to Table 4.2 of the monthly EM&A report. Major site activities carried out during the reporting period are summarized in Section 1.4 of the monthly EM&A report. Weather conditions during monitoring are presented in the data tables above. QA/ QC requirements as stipulated in the EM&A Manual were carried out during measurement.

Mott MacDonald   Expansion of Hong Kong International Airport into a Three-Runway System Construction Phase Monthly EM&A Report No. 93 (For September 2023)
Chinese White Dolphin Monitoring Results

#### **CWD Small Vessel Line-transect Survey**

#### **Survey Effort Data**

DATE	AREA	BEAU	KM SEARCHED	SEASON	VESSEL	TYPE	P/S
4-Jul-23	NEL	2	34.860	SUMMER	32166	3RS ET	Р
4-Jul-23	NEL	3	2.000	SUMMER	32166	3RS ET	Р
4-Jul-23	NEL	2	10.040	SUMMER	32166	3RS ET	S
6-Jul-23	NWL	2	15.200	SUMMER	32166	3RS ET	Р
6-Jul-23	NWL	3	48.600	SUMMER	32166	3RS ET	Р
6-Jul-23	NWL	3	11.700	SUMMER	32166	3RS ET	S
7-Jul-23	AW	3	4.720	SUMMER	32166	3RS ET	Р
7-Jul-23	WL	3	18.416	SUMMER	32166	3RS ET	Р
7-Jul-23	WL	3	9.974	SUMMER	32166	3RS ET	S
7-Jul-23	WL	4	1.030	SUMMER	32166	3RS ET	S
10-Jul-23	NEL	2	10.000	SUMMER	32166	3RS ET	Р
10-Jul-23	NEL	3	26.250	SUMMER	32166	3RS ET	Р
10-Jul-23	NEL	2	3.950	SUMMER	32166	3RS ET	S
10-Jul-23	NEL	3	6.700	SUMMER	32166	3RS ET	S
11-Jul-23	WL	2	0.914	SUMMER	32166	3RS ET	Р
11-Jul-23	WL	3	16.632	SUMMER	32166	3RS ET	Р
11-Jul-23	WL	3	9.308	SUMMER	32166	3RS ET	S
11-Jul-23	AW	3	4.730	SUMMER	32166	3RS ET	Р
12-Jul-23	SWL	2	42.491	SUMMER	32166	3RS ET	Р
12-Jul-23	SWL	3	12.177	SUMMER	32166	3RS ET	Р
12-Jul-23	SWL	2	12.122	SUMMER	32166	3RS ET	S
12-Jul-23	SWL	3	3.070	SUMMER	32166	3RS ET	S
13-Jul-23	SWL	2	31.460	SUMMER	32166	3RS ET	Р
13-Jul-23	SWL	3	21.490	SUMMER	32166	3RS ET	Р
13-Jul-23	SWL	2	12.180	SUMMER	32166	3RS ET	S
13-Jul-23	SWL	3	4.500	SUMMER	32166	3RS ET	S
14-Jul-23	NWL	2	63.800	SUMMER	32166	3RS ET	Р
14-Jul-23	NWL	2	11.700	SUMMER	32166	3RS ET	S
02-Aug-23	SWL	2	35.924	SUMMER	32166	3RS ET	Р
02-Aug-23	SWL	3	14.605	SUMMER	32166	3RS ET	Р
02-Aug-23	SWL	2	13.071	SUMMER	32166	3RS ET	S
02-Aug-23	SWL	3	2.370	SUMMER	32166	3RS ET	S
03-Aug-23	SWL	2	50.260	SUMMER	32166	3RS ET	Р
03-Aug-23	SWL	3	3.500	SUMMER	32166	3RS ET	Р
03-Aug-23	SWL	2	14.140	SUMMER	32166	3RS ET	S
03-Aug-23	SWL	3	1.100	SUMMER	32166	3RS ET	S
08-Aug-23	AW	2	4.770	SUMMER	32166	3RS ET	Р
08-Aug-23	WL	2	5.650	SUMMER	32166	3RS ET	Р
08-Aug-23	WL	3	13.958	SUMMER	32166	3RS ET	Р
08-Aug-23	WL	2	3.236	SUMMER	32166	3RS ET	S
08-Aug-23	WL	3	6.443	SUMMER	32166	3RS ET	S
09-Aug-23	NWL	1	3.200	SUMMER	32166	3RS ET	Р
09-Aug-23	NWL	2	58.200	SUMMER	32166	3RS ET	Р
09-Aug-23	NWL	3	2.100	SUMMER	32166	3RS ET	Р
09-Aug-23	NWL	1	12.2	SUMMER	32166	3RS ET	S
16-Aug-23	NEL	2	19.31	SUMMER	32166	3RS ET	Р
16-Aug-23	NEL	3	17.6	SUMMER	32166	3RS ET	Р
16-Aug-23	NEL	2	8.19	SUMMER	32166	3RS ET	S
16-Aug-23	NEL	3	1.8	SUMMER	32166	3RS ET	S
17-Aug-23	NEL	2	37.41	SUMMER	32166	3RS ET	Р
17-Aug-23	NEL	2	9.99	SUMMER	32166	3RS ET	S
22-Aug-23	NWL	2	63.5	SUMMER	32166	3RS ET	Р
22-Aug-23	NWL	2	12.2	SUMMER	32166	3RS ET	S
24-Aug-23	AW	2	4.8	SUMMER	32166	3RS ET	Р
24-Aug-23	WL	2	13.49	SUMMER	32166	3RS ET	Р
24-Aug-23	WL	3	6.15	SUMMER	32166	3RS ET	Р
24-Aug-23	WL	2	6.47	SUMMER	32166	3RS ET	S

DATE	AREA	BEAU	KM SEARCHED	SEASON	VESSEL	TYPE	P/S
24-Aug-23	WL	3	3.42	SUMMER	32166	3RS ET	S
06-Sep-23	NEL	1	2.34	AUTUMN	32166	3RS ET	Р
06-Sep-23	NEL	2	34.54	AUTUMN	32166	3RS ET	Р
06-Sep-23	NEL	1	0.67	AUTUMN	32166	3RS ET	S
06-Sep-23	NEL	2	9.25	AUTUMN	32166	3RS ET	S
13-Sep-23	SWL	3	55.03	AUTUMN	32166	3RS ET	Р
13-Sep-23	SWL	3	14.57	AUTUMN	32166	3RS ET	S
15-Sep-23	NEL	2	13.6	AUTUMN	32166	3RS ET	Р
15-Sep-23	NEL	3	23.82	AUTUMN	32166	3RS ET	Р
15-Sep-23	NEL	2	5.98	AUTUMN	32166	3RS ET	S
15-Sep-23	NEL	3	4.2	AUTUMN	32166	3RS ET	S
18-Sep-23	SWL	2	17.1	AUTUMN	32166	3RS ET	Р
18-Sep-23	SWL	3	36.7	AUTUMN	32166	3RS ET	Р
18-Sep-23	SWL	2	2.74	AUTUMN	32166	3RS ET	S
18-Sep-23	SWL	3	13	AUTUMN	32166	3RS ET	S
20-Sep-23	WL	1	9.19	AUTUMN	32166	3RS ET	Р
20-Sep-23	WL	2	7.4	AUTUMN	32166	3RS ET	Р
20-Sep-23	WL	3	1.904	AUTUMN	32166	3RS ET	Р
20-Sep-23	WL	1	4.95	AUTUMN	32166	3RS ET	S
20-Sep-23	WL	2	4.11	AUTUMN	32166	3RS ET	S
20-Sep-23	WL	3	2.186	AUTUMN	32166	3RS ET	S
20-Sep-23	AW	1	4.63	AUTUMN	32166	3RS ET	Р
21-Sep-23	AW	2	4.56	AUTUMN	32166	3RS ET	Р
21-Sep-23	WL	1	3.93	AUTUMN	32166	3RS ET	Р
21-Sep-23	WL	2	12.869	AUTUMN	32166	3RS ET	Р
21-Sep-23	WL	2	11.546	AUTUMN	32166	3RS ET	S
22-Sep-23	NWL	2	63.9	AUTUMN	32166	3RS ET	Р
22-Sep-23	NWL	2	12	AUTUMN	32166	3RS ET	S
25-Sep-23	NWL	2	1.62	AUTUMN	32166	3RS ET	Р
25-Sep-23	NWL	3	43.48	AUTUMN	32166	3RS ET	Р
25-Sep-23	NWL	4	18.2	AUTUMN	32166	3RS ET	Р
25-Sep-23	NWL	3	8.9	AUTUMN	32166	3RS ET	S
25-Sep-23	NWL	4	3.2	AUTUMN	32166	3RS ET	S

Notes: CWD monitoring survey data of the two preceding survey months are presented for reference only.

#### **CWD Small Vessel Line-transect Survey**

#### Sighting Data

DATE	STG#	TIME	CWD/FP	GP SZ	AREA	BEAU	PSD	EFFORT	TYPE	DEC LAT	DEC LON	SEASON	BOAT ASSOC.	P/S
7-Jul-23	1	1101	CWD	1	WL	3	268	ON	3RS ET	22.2415	113.8368	SUMMER	NONE	Р
7-Jul-23	2	1200	CWD	1	WL	3	91	ON	3RS ET	22.1961	113.8325	SUMMER	NONE	Р
7-Jul-23	3	1215	CWD	15	WL	3	134	ON	3RS ET	22.1875	113.8401	SUMMER	NONE	Р
11-Jul-23	1	1056	CWD	3	WL	3	275	ON	3RS ET	22.2416	113.8358	SUMMER	NONE	Р
11-Jul-23	2	1133	CWD	4	WL	3	35	ON	3RS ET	22.2230	113.8247	SUMMER	NONE	Р
11-Jul-23	3	1142	CWD	5	WL	3	6	ON	3RS ET	22.2160	113.8198	SUMMER	NONE	S
11-Jul-23	4	1214	CWD	3	WL	3	390	ON	3RS ET	22.2052	113.8313	SUMMER	NONE	Р
11-Jul-23	5	1219	CWD	3	WL	3	170	ON	3RS ET	22.1975	113.8277	SUMMER	NONE	S
11-Jul-23	6	1248	CWD	1	WL	3	26	ON	3RS ET	22.1962	113.8345	SUMMER	NONE	Р
11-Jul-23	7	1307	CWD	2	WL	3	339	ON	3RS ET	22.1881	113.8414	SUMMER	NONE	S
12-Jul-23	1	1047	FP	3	SWL	2	46	ON	3RS ET	22.1590	113.9357	SUMMER	NONE	Р
12-Jul-23	2	1123	FP	2	SWL	2	39	ON	3RS ET	22.2022	113.9274	SUMMER	NONE	Р
12-Jul-23	3	1145	FP	1	SWL	2	211	ON	3RS ET	22.1711	113.9188	SUMMER	NONE	Р
12-Jul-23	4	1350	CWD	1	SWL	2	145	ON	3RS ET	22.1895	113.8769	SUMMER	NONE	Р
13-Jul-23	1	1054	FP	1	SWL	2	34	ON	3RS ET	22.1510	113.9363	SUMMER	NONE	Р
13-Jul-23	2	1227	CWD	1	SWL	2	61	ON	3RS ET	22.1894	113.9070	SUMMER	NONE	S
02-Aug-23	1	1023	CWD	1	SWL	2	477	ON	3RS ET	22.2085	113.9362	SUMMER	NONE	Р
02-Aug-23	2	1202	FP	11	SWL	2	94	ON	3RS ET	22.1441	113.9176	SUMMER	NONE	Р
02-Aug-23	3	1346	CWD	1	SWL	3	102	ON	3RS ET	22.2000	113.8881	SUMMER	NONE	Р
02-Aug-23	4	1416	CWD	4	SWL	3	171	ON	3RS ET	22.1882	113.8786	SUMMER	NONE	Р
02-Aug-23	5	1444	CWD	1	SWL	3	247	ON	3RS ET	22.1624	113.8689	SUMMER	NONE	Р
02-Aug-23	6	1458	CWD	8	SWL	3	523	ON	3RS ET	22.1687	113.8688	SUMMER	NONE	Р
02-Aug-23	7	1529	CWD	1	SWL	2	294	ON	3RS ET	22.1982	113.8684	SUMMER	PURSE SEINER	Р
02-Aug-23	8	1549	CWD	3	SWL	2	225	ON	3RS ET	22.1934	113.8587	SUMMER	NONE	Р
02-Aug-23	9	1605	CWD	2	SWL	2	202	ON	3RS ET	22.1849	113.8591	SUMMER	NONE	Р
02-Aug-23	10	1630	CWD	8	SWL	2	272	ON	3RS ET	22.1906	113.8495	SUMMER	NONE	Р
03-Aug-23	1	1152	FP	2	SWL	2	157	ON	3RS ET	22.1564	113.9173	SUMMER	NONE	Р
03-Aug-23	2	1310	FP	3	SWL	2	208	ON	3RS ET	22.1495	113.8940	SUMMER	NONE	S
03-Aug-23	3	1352	CWD	4	SWL	2	346	ON	3RS ET	22.1949	113.8785	SUMMER	NONE	Р
03-Aug-23	4	1523	CWD	5	SWL	3	343	ON	3RS ET	22.1889	113.8508	SUMMER	PURSE SEINER	Р
08-Aug-23	1	1111	CWD	1	WL	2	108	ON	3RS ET	22.2234	113.8301	SUMMER	NONE	Р
08-Aug-23	2	1131	CWD	2	WL	3	53	ON	3RS ET	22.2147	113.8289	SUMMER	NONE	Р

DATE	STG#	TIME	CWD/FP	GP SZ	AREA	BEAU	PSD	EFFORT	TYPE	DEC LAT	DEC LON	SEASON	BOAT ASSOC.	P/S
08-Aug-23	3	1155	CWD	3	WL	2	473	ON	3RS ET	22.2055	113.8243	SUMMER	NONE	Р
08-Aug-23	4	1213	CWD	3	WL	2	15	ON	3RS ET	22.2017	113.8238	SUMMER	NONE	S
08-Aug-23	5	1226	CWD	4	WL	3	23	ON	3RS ET	22.1974	113.8269	SUMMER	NONE	S
08-Aug-23	6	1256	CWD	6	WL	3	537	ON	3RS ET	22.1876	113.8326	SUMMER	NONE	Р
24-Aug-23	1	1118	CWD	2	WL	3	108	ON	3RS ET	22.2176	113.8196	SUMMER	NONE	S
24-Aug-23	2	1147	CWD	2	WL	3	204	ON	3RS ET	22.2056	113.8286	SUMMER	NONE	Р
13-Sep-23	1	1227	CWD	6	SWL	3	19	ON	3RS ET	22.188770	113.90627	AUTUMN	NONE	Р
18-Sep-23	1	1029	FP	2	SWL	2	365	ON	3RS ET	22.197349	113.93566	AUTUMN	NONE	Р
18-Sep-23	2	1037	FP	3	SWL	2	55	ON	3RS ET	22.184478	113.93564	AUTUMN	NONE	Р
18-Sep-23	3	1053	FP	6	SWL	2	198	ON	3RS ET	22.153702	113.93678	AUTUMN	NONE	Р
20-Sep-23	1	1030	CWD	2	WL	1	234	ON	3RS ET	22.261023	113.85093	AUTUMN	NONE	Р
20-Sep-23	2	1042	CWD	2	WL	1	265	ON	3RS ET	22.260349	113.84229	AUTUMN	NONE	Р
20-Sep-23	3	1112	CWD	1	WL	1	290	ON	3RS ET	22.241103	113.84425	AUTUMN	NONE	Р
20-Sep-23	4	1124	CWD	1	WL	1	236	ON	3RS ET	22.241593	113.83484	AUTUMN	NONE	Р
21-Sep-23	1	1034	CWD	3	WL	2	138	ON	3RS ET	22.261205	113.84683	AUTUMN	NONE	Р
21-Sep-23	2	1122	CWD	3	WL	2	297	ON	3RS ET	22.223088	113.83525	AUTUMN	NONE	Р
21-Sep-23	3	1156	CWD	6	WL	2	77	ON	3RS ET	22.214777	113.82498	AUTUMN	NONE	Р
21-Sep-23	4	1223	CWD	1	WL	2	163	ON	3RS ET	22.206057	113.82903	AUTUMN	NONE	Р
21-Sep-23	5	1231	CWD	2	WL	2	41	ON	3RS ET	22.205669	113.82487	AUTUMN	NONE	Р
21-Sep-23	6	1247	CWD	1	WL	2	22	ON	3RS ET	22.196451	113.83561	AUTUMN	NONE	Р
21-Sep-23	7	1254	CWD	3	WL	2	913	ON	3RS ET	22.193651	113.84263	AUTUMN	NONE	S
21-Sep-23	8	1319	CWD	1	WL	2	634	ON	3RS ET	22.187905	113.83346	AUTUMN	NONE	Р

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

#### Notes:

CWD monitoring survey data of the two preceding survey months are presented for reference only. No relevant figure or text will be mentioned in this monthly EM&A report.

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

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

A total of 430.72 km of survey effort was collected under Beaufort Sea State 3 or below with favourable visibility; total no. of 13 on-effort sightings and total number of 32 dolphins from on-effort sightings were collected under such condition. Calculation of the encounter rates in September 2023 are shown as below:

Encounter Rate by Number of Dolphin Sightings (STG) in September 2023

$$STG = \frac{13}{430.72} \times 100 = 3.02$$

Encounter Rate by Number of Dolphins (ANI) in September 2023

$$ANI = \frac{32}{430.72} \times 100 = 7.43$$

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

A total of 1328.76 km of survey effort was collected under Beaufort Sea State 3 or below with favourable visibility; total no. of 44 on-effort sightings and total number of 133 dolphins from on-effort sightings were collected under such condition. Calculation of the running quarterly encounter rates are shown as below:

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

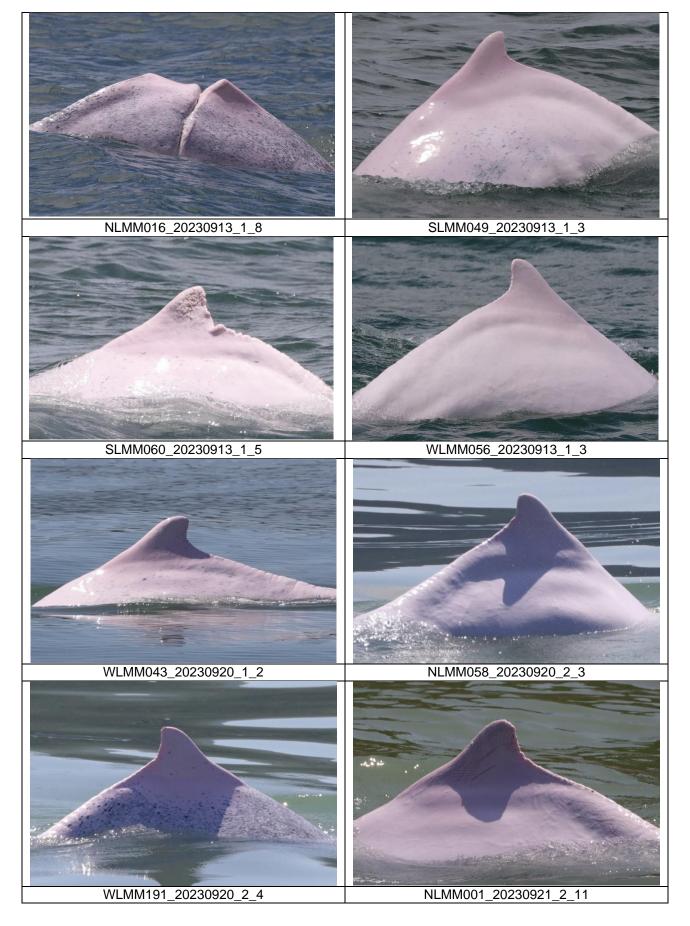
$$STG = \frac{44}{1328.76} \times 100 = 3.31$$

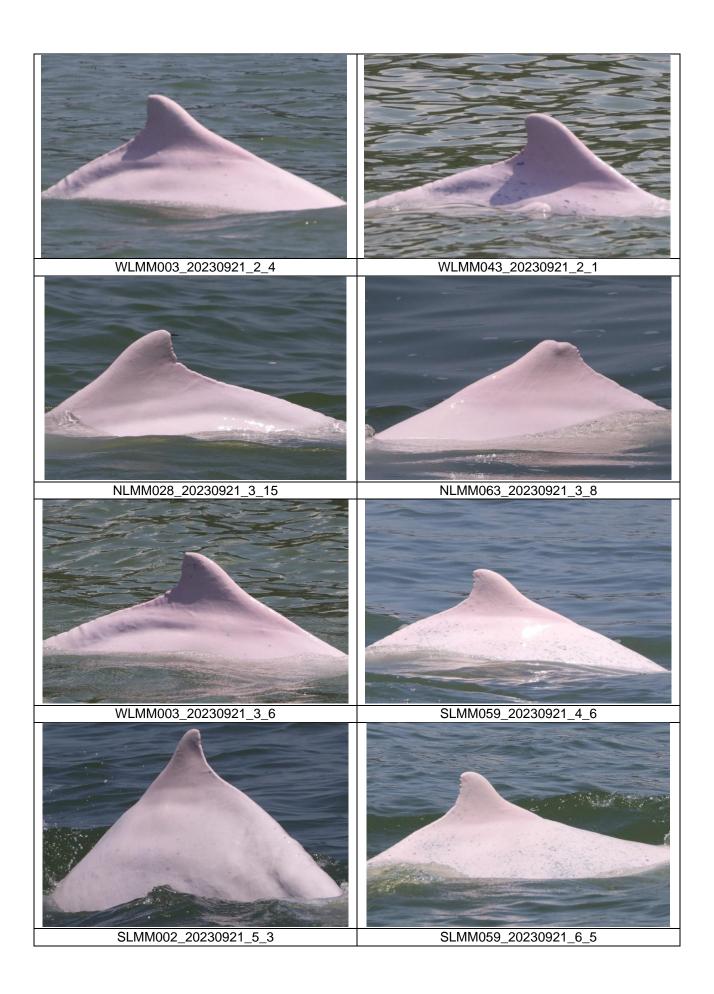
Running Quarterly Encounter Rate by Number of Dolphins (ANI)

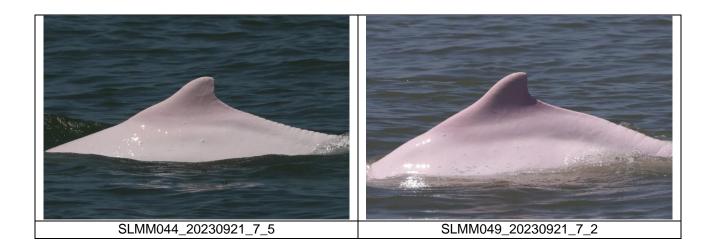
$$ANI = \frac{133}{1328.76} \times 100 = 10.01$$

#### **CWD Small Vessel Line-transect Survey**

#### **Photo Identification**







#### **CWD Land-based Theodolite Tracking Survey**

#### **CWD Groups by Survey Date**

Date	Station	Start Time	End Time	Duration	Beaufort Range	Visibility	No. of Focal Follow Dolphin Groups Tracked	Dolphin Group Size Range
21/Sep/23	Lung Kwu Chau	8:59	14:59	6:00	1	1	0	0
26/Sep/23	Sha Chau	10:53	16:53	6:00	2-3	1	0	0

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

## Appendix D. Calibration Certificates



#### 專業化驗有限公司 OUALITY PRO TEST-CONSULT LIMITED

Unit 10, 5/F, Wah Wai Centre, 38-40 Au Pui Wan St., Fotan, Hong Kong Email: info@qualityprotest.com; Website: www.qualityprotest.com Tel: (852) 3956 8717; Fax: (852) 3956 3928

#### REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No.

: R-BC090045

**Date of Issue** 

: 15 September 2023

Page No.

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#### PART A - CUSTOMER INFORMATION

Enovative Environmental Service Ltd.

Flat 2207, Yu Fun House Yu Chui Court, Shatin

New Territories (HK) Hong Kong

#### **PART B - SAMPLE INFORMATION**

Name of Equipment:

YSI ProDSS (Multi-Parameters)

Manufacturer:

YSI (a xylem brand)

Serial Number:

21K101468

Date of Received:

15 September 2023

Date of Calibration :

15 September 2023

Date of Next Calibration:

14 December 2023

Request No.:

D-BC090045

#### PART C - REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

Test Parameter

Reference Method

pH value

APHA 21e 4500-H+ B

Temperature

Section 6 of international Accreditation New Zealand Technical Guide no. 3 Second edition March

2008: Working Thermometer Calibration Procedure

Salinity

APHA 21e 2520 B

Dissolved oxygen

APHA 23e 4500-O G (Membrane Electrode Method)

Turbidity

APHA 21e 2130 B (Nephelometric Method)

Conductivity

APHA 21e 2510 B

#### PART D - CALIBRATION RESULT

#### (1) pH value

Target ( pH unit )	Display Reading (pH unit)	Tolerance	Result
4.00	4.04	0.04	Satisfactory
7.42	7.50	0.08	Satisfactory
10.01	10.07	0.06	Satisfactory

Tolerance of pH value should be less than  $\pm$  0.2 (pH unit)

#### (2) Temperature

Reading of Ref. thermometer (°C)	Display Reading (°C)	Tolerance	Result
12	12.0	0.0	Satisfactory
26	26.1	0.1	Satisfactory
39	38.9	-0.1	Satisfactory

Tolerance of Temperature should be less than  $\pm 2.0$  ( °C )

#### (3) Salinity

Expected Reading (g/L)	Display Reading (g/L)	Tolerance (%)	Result
10	9.94	-0.60	Satisfactory
20	20.09	0.45	Satisfactory
30	30.16	0.53	Satisfactory

Tolerance of Salinity should be less than  $\pm$  10.0 (%)

--- CONTINUED ON NEXT PAGE ---

AUTHORIZED SIGNATORY:

> LEE Chun-ning Assistant Manager

#### REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No.

: R-BC090045

**Date of Issue** 

: 15 September 2023

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#### (4) Dissolved oxygen

Expected Reading ( mg/L )	Display Reading ( mg/L )	Tolerance	Result
7.97	8.27	0.30	Satisfactory
6.81	6.47	-0.34	Satisfactory
4.65	4.60	-0.05	Satisfactory
0.17	0.40	0.23	Satisfactory

Tolerance of Dissolved oxygen should be less than  $\pm 0.5$  ( mg/L )

#### (5) Turbidity

Expected Reading (NTU)	ted Reading (NTU) Display Reading (NTU)		Result	
0	0.10		Satisfactory	
10	10.09	0.90	Satisfactory	
20	18.88	-5.60	Satisfactory	
100	96.8	-3.20	Satisfactory	
800	820.31	2.50	Satisfactory	

Tolerance of Turbidity should be less than  $\pm$  10.0 (%)

#### (6) Conductivity

Expected Reading ( μS/cm at 25°C )	Display Reading	Tolerance (%)	Result
146.9	151	2.79	Satisfactory
1412	1278	-9.49	Satisfactory
12890	12906	0.12	Satisfactory
58670	59334	1.13	Satisfactory
111900	112867	0.86	Satisfactory

Tolerance of Conductivity should be less than  $\pm$  10.0 (%)

#### Remark(s)

- 'The "Date of Next Calibration" is recommended according to best practice principals as practiced by QPT or quoted form relevant international standards.
- ·The results relate only to the calibrated equipment as received
- The performance of the equipment stated in this report is checked with independent reference material and results compared against a calibrated secondary source.
- "Displayed Reading" denotes the figure shown on item under calibration/ checking regardless of equipment precision or significant figures.
- 'The "Tolerance Limit" mentioned is the acceptance criteria applicable for similar equipment used by Quality Pro Test-Consult Ltd. or quoted form relevant international standards.

--- END OF REPORT ---



Unit 10, 5/F, Wah Wai Centre, 38-40 Au Pui Wan St., Fotan, Hong Kong Email: info@qualityprotest.com; Website: www.qualityprotest.com

Tel: (852) 3956 8717; Fax: (852) 3956 3928

#### REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No.

: R-BC090046

Date of Issue

: 15 September 2023

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#### PART A - CUSTOMER INFORMATION

Enovative Environmental Service Ltd.

Flat 2207, Yu Fun House Yu Chui Court, Shatin

New Territories (HK) Hong Kong

#### **PART B - SAMPLE INFORMATION**

Name of Equipment:

YSI ProDSS (Multi-Parameters)

Manufacturer:

YSI (a xylem brand)

Serial Number:

16H104233

Date of Received:

15 September 2023

Date of Calibration:

15 September 2023

Date of Next Calibration:

14 December 2023

Request No.:

D-BC090046

#### PART C - REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

**Test Parameter** 

Reference Method

pH value

APHA 21e 4500-H+ B

Temperature

Section 6 of international Accreditation New Zealand Technical Guide no. 3 Second edition March

2008: Working Thermometer Calibration Procedure

Salinity

APHA 21e 2520 B

Dissolved oxygen

APHA 23e 4500-O G (Membrane Electrode Method)

Turbidity

APHA 21e 2130 B (Nephelometric Method)

Conductivity

APHA 21e 2510 B

#### PART D - CALIBRATION RESULT

#### (1) nH value

(1) Pro 1444					
Target (pH unit)	Display Reading (pH unit)	Tolerance	Result		
4.00	4.06	0.06	Satisfactory		
7.42	7.48	0.06	Satisfactory		
10.01	10.09	0.08	Satisfactory		

Tolerance of pH value should be less than  $\pm$  0.2 (pH unit)

#### (2) Temperature

Reading of Ref. thermometer ( °C )	Display Reading (°C)	Tolerance	Result
12	12.0	0.0	Satisfactory
26	26.1	0.1	Satisfactory
39	38.9	-0.1	Satisfactory

Tolerance of Temperature should be less than  $\pm 2.0$  ( °C )

#### (3) Salinity

Expected Reading (g/L)	Display Reading (g/L)	Tolerance (%)	Result
10	10.10	1.00	Satisfactory
20	19.91	-0.45	Satisfactory
30	29.88	-0.40	Satisfactory

Tolerance of Salinity should be less than  $\pm 10.0$  (%)

--- CONTINUED ON NEXT PAGE ---

AUTHORIZED SIGNATORY:

> LEE Chun-ning Assistant Manager

Tel: (852) 3956 8717; Fax: (852) 3956 3928

REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No.

: R-BC090046

Date of Issue

: 15 September 2023

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#### (4) Dissolved oxygen

Expected Reading ( mg/L )	Display Reading ( mg/L )	Tolerance	Result
7.97	8.21	0.24	Satisfactory
6.81	6.47	-0.34	Satisfactory
4.65	4.59	-0.06	Satisfactory
0.17	0.40	0.23	Satisfactory

Tolerance of Dissolved oxygen should be less than  $\pm$  0.5 ( mg/L )

#### (5) Turbidity

Expected Reading (NTU)	Display Reading (NTU)	Tolerance ( % )	Result
0	0.05		Satisfactory
10	9.88	-1.20	Satisfactory
20	19.9	-0.50	Satisfactory
100	97.3	-2.70	Satisfactory
800	818.84	2.40	Satisfactory

Tolerance of Turbidity should be less than  $\pm 10.0$  (%)

#### (6) Conductivity

Expected Reading ( μS/cm at 25°C )	Display Reading	Tolerance (%)	Result
146.9	150	2.11	Satisfactory
1412	1281	-9.28	Satisfactory
12890	12796	-0.73	Satisfactory
58670	57983	-1.17	Satisfactory
111900	113907	1.79	Satisfactory

Tolerance of Conductivity should be less than  $\pm 10.0$  (%)

#### Remark(s)

- 'The "Date of Next Calibration" is recommended according to best practice principals as practiced by QPT or quoted form relevant international standards.
- ·The results relate only to the calibrated equipment as received
- ·The performance of the equipment stated in this report is checked with independent reference material and results compared against a calibrated secondary source.
- "Displayed Reading" denotes the figure shown on item under calibration/ checking regardless of equipment precision or significant figures.
- 'The "Tolerance Limit" mentioned is the acceptance criteria applicable for similar equipment used by Quality Pro Test-Consult Ltd. or quoted form relevant international standards.

--- END OF REPORT ---

## Appendix E. Status of Environmental Permits and Licenses

	Description	Permit/ Reference No.	Status
EIAO	Environmental Permit	EP-489/2014	Approved on 7 Nov 2014

Contract No.	Description	Location	Permit/ Reference No.	Status	
3206	Registration as Chemical Waste	Site office of 3206	WPN 5213-951- Z4035-01	Completion of Registration on 18 Nov. 2016	
	Producer	Works area of 3206	WPN 5213-951- Z4035-02	Completion of Registration on 18 Nov 2016	
	Construction Noise Permit (General Works)	Works Area of 3206	GW-RS0347-23	Valid from 3 May 2023 to 1 Nov 2023	
	Bill Account for disposal	Works area of 3206	A/C 7026398	Approval granted from EPD on 16 Nov 2016	
3302	Notification of Construction Work under APCO	Works area of 3302	490404	Receipt acknowledged by EPD on 10 Mar 2023	
	Registration as Chemical Waste Producer	Works area of 3302	5296-951-C4331- 01	Completion of Registration on 4 Jan 2019	
	Discharge License under WPCO	Works area of 3302	WT00034539- 2019	Valid from 11 Mar 2020 to 31 Mar 2025	
	Bill Account for disposal	Works area of 3302	A/C 7032881	Approval granted from EPD on 8 Jan 2019	
	Construction Noise Permit (General Works)	Works area of 3302	GW-RS0301-23	Valid from 20 Apr 2023 to 19 Oct 2023	
3305	Notification of Construction Work under APCO	Works area of 3305	460857	Receipt acknowledged by EPD on 12 Oct 2020	
	Registration as Chemical Waste Producer	Works area of 3305	5213-951-A3024- 01	Completion of Registration on 13 Nov 2020	
	Bill Account for disposal	Works area of 3305	A/C 7035360	Approval granted from EPD on 9 Oct 2019	
	Construction Noise Permit (General Works)	Works area of 3305	GW-RS0423-23	Valid from 1 Jun 2023 to 30 Nov 2023	
3306	Registration as Chemical Waste Producer	Works area of 3306	8335-951-C4434- 01	Completion of Registration on 1 Apr 2020	
	Bill Account for disposal	Works area of 3306	A/C 7035868	Approval granted from EPD on 27 Nov 2019	
3307	Registration as Chemical Waste Producer	Works area of 3307	5211-951-P3379- 01	Completion of Registration on 8 Jun 2020	
	Bill Account for disposal	Works area of 3307	A/C 7037129	Approval granted from EPD on 5 May 2020	

	Description	Location	Permit/ Reference No.	Status
3308	Bill Account for disposal	Works area of 3308	A/C 7038988	Approval granted from EPD on 24 Nov 2020
	Construction Noise Permit (General Works)	Works area of 3308	GW-RS0305-23	Valid from 17 Apr 2023 to 16 Oct 2023
3310	Notification of Construction Work under APCO	Works area of 3310	485057	Receipt acknowledged by EPD on 6 Oct 2022
	Registration as Chemical Waste Producer	Works area of 3310	5213-951-C4682- 01	Completion of Registration on 21 Dec 2021
	rioddoor	Works area of 3310	5213-000-C3317- 27	Completion of Registration on 31 Aug 2022
	Discharge License under WPCO	Works area of 3310	WT00039654- 2021	Valid from 31 Dec 2021 to 31 Dec 2026
	Bill Account for disposal	Works area of 3310	A/C 7042793	Approval granted from EPD on 4 Jan 2022
	Construction Noise Permit (General Works)	Works area of 3310 (Existing airport)	GW-RS0421-23	Valid from 24 May 2023 to 21 Nov 2023
		Works area of 3310 (Reclamation area)	GW-RS0502-23	Valid from 19 Jun 2023 to 15 Dec 2023
		Tsing Chau Wan	GW-RW0340-23	Valid from 26 May 2023 to 25 Nov 2023
3402	Bill Account for disposal	Works area of 3402	A/C 7032577	Approval granted from EPD on 11 Jan 2019
3402			A/C 7032577 485039	2019
	disposal  Notification of	3402 Works area of		2019  Receipt acknowledged by EPD on 06 Oct
	Notification of Construction Work under	Works area of 3403 Works area of 3403 (with Area	485039	2019  Receipt acknowledged by EPD on 06 Oct 2022  Receipt acknowledged by EPD on 28 Dec
	Notification of Construction Work under APCO  Registration as Chemical Waste	Works area of 3403  Works area of 3403 (with Area 17 and Area 15)  Works area of	485039 475369 5213-951-S4218-	2019  Receipt acknowledged by EPD on 06 Oct 2022  Receipt acknowledged by EPD on 28 Dec 2021
	Notification of Construction Work under APCO  Registration as Chemical Waste Producer  Discharge License under	Works area of 3403 Works area of 3403 (with Area 17 and Area 15) Works area of 3403 Works area of	485039 475369 5213-951-S4218- 01 WT00035841-	2019  Receipt acknowledged by EPD on 06 Oct 2022  Receipt acknowledged by EPD on 28 Dec 2021  Completion of Registration on 9 Jan 2020  Valid from 5 Jun 2020 to 30 Jun 2025  Approved variation on 9 Jun 2022
	Notification of Construction Work under APCO  Registration as Chemical Waste Producer  Discharge License under WPCO  Bill Account for	Works area of 3403 Works area of 3403 (with Area 17 and Area 15) Works area of 3403 Works area of 3403 Works area of 3403	485039 475369 5213-951-S4218- 01 WT00035841- 2020	2019  Receipt acknowledged by EPD on 06 Oct 2022  Receipt acknowledged by EPD on 28 Dec 2021  Completion of Registration on 9 Jan 2020  Valid from 5 Jun 2020 to 30 Jun 2025  Approved variation on 9 Jun 2022  Approval granted from EPD on 30 Sep
	Notification of Construction Work under APCO  Registration as Chemical Waste Producer  Discharge License under WPCO  Bill Account for disposal  Construction Noise Permit	Works area of 3403 Works area of 3403 (with Area 17 and Area 15) Works area of 3403 Works area of 3403 Works area of 3403 Works area of 3403 Works area of	485039 475369 5213-951-S4218- 01 WT00035841- 2020 A/C 7035267	2019  Receipt acknowledged by EPD on 06 Oct 2022  Receipt acknowledged by EPD on 28 Dec 2021  Completion of Registration on 9 Jan 2020  Valid from 5 Jun 2020 to 30 Jun 2025  Approved variation on 9 Jun 2022  Approval granted from EPD on 30 Sep 2019  Valid from 1 Sep 2023 to 29 Feb 2024
3403	Notification of Construction Work under APCO  Registration as Chemical Waste Producer  Discharge License under WPCO  Bill Account for disposal  Construction Noise Permit (General Works)  Bill Account for	Works area of 3403 Works area of 3403 (with Area 17 and Area 15) Works area of 3403 Works area of 3403 Works area of 3403 Works area of 3403 Works area of 3403 Works area of 3403	485039 475369 5213-951-S4218- 01 WT00035841- 2020 A/C 7035267 GW-RS0694-23	2019  Receipt acknowledged by EPD on 06 Oct 2022  Receipt acknowledged by EPD on 28 Dec 2021  Completion of Registration on 9 Jan 2020  Valid from 5 Jun 2020 to 30 Jun 2025  Approved variation on 9 Jun 2022  Approval granted from EPD on 30 Sep 2019  Valid from 1 Sep 2023 to 29 Feb 2024  Approval granted from EPD on 12 Sep

Contract No.	Description	Location	Permit/ Reference No.	Status
	Discharge License under WPCO	Works area of 3405	WT00037084- 2020	Valid from 17 Mar 2021 to 31 Mar 2026
	Bill Account for disposal	Works area of 3405	A/C 7036796	Approval granted from EPD on 20 Mar 2020
	Construction Noise Permit (General Works)	Works area of 3405	GW-RS0438-23	Valid from 1 Jun 2023 to 29 Nov 2023
3408	Notification of Construction	Works area of 3408	461958	Receipt acknowledged by EPD on 17 Nov 2020
	Work under APCO	3408 CSA-CBP	488443	Receipt acknowledged by EPD on 13 Jan 2023
	Specified Process Licence (Cement Works)	3408 CSA-CBP	L-3-268(1)	Valid from 22 May 2023 to 21 May 2025
	Registration as Chemical Waste Producer	Works area of 3408	WPN 5218-951- B2621-01	Completion of Registration on 16 Jul 2021
	Discharge License under WPCO	Works area of 3408	WT00038836- 2021	Valid from 10 Jul 2023 to 30 Sep 2026
	Bill Account for disposal	Works area of 3408	A/C 7039063	Approval granted from EPD on 2 Dec 2020
	Construction Noise Permit (General Works)	Works area of 3408	GW-RS0627-23	Valid from 31 Jul 2023 to 31 Dec 2023
	Construction Noise Permit (Special Case)	Works area of 3408	GW-RS0332-23	Valid from 23 Apr 2023 to 16 Oct 2023
3508	Notification of Construction Work under APCO	Works area of 3508	459017	Receipt acknowledged by EPD on 27 Aug 2020
			459469	Receipt acknowledged by EPD on 4 Sep 2020
			493055	Receipt acknowledged by EPD on 30 May 2023
	Registration as Chemical Waste Producer	Works area of 3508	WPN-5218-951- G2898-01	Completion of Registration on 28 Sep 2020
	Discharge License under	Works area of 3508	WT00037209- 2020	Valid from 11 Mar 2021 to 31 Mar 2026
	WPCO		WT00037523- 2021	Valid from 1 Apr 2021 to 30 Apr 2026
			WT00037225- 2020	Valid from 1 Apr 2021 to 30 Apr 2026
			WT00037549- 2021	Valid from 1 Apr 2021 to 30 Apr 2026
	Bill Account for disposal	Works area of 3508	7038224	Approval granted from EPD on 8 Sep 2020
	Construction Noise Permit	Works area of 3508	GW-RS0513-23	Valid from 28 Jun 2023 to 27 Dec 2023
	(General Works)	Works area of 3508	GW-RS0437-23	Valid from 6 Jun 2023 to 5 Dec 2023

Contract No.	Description	Location	Permit/ Reference No.	Status
		Works area of 3508	GW-RS0229-23	Valid from 24 Mar 2023 to 21 Sep 2023
		Works area of 3508	GW-RS0794-23	Valid from 22 Sep 2023 to 21 Mar 2024
		Works area of 3508	GW-RS0834-23	Valid from 30 Sep 2023 to 27 Mar 2024
	Construction Noise Permit	Works area of 3508	GW-RS0535-23	Valid from 16 Jul 2023 to 30 Nov 2023
	(Special Case)	Works area of 3508	GW-RS0361-23	Valid from 11 May 2023 to 17 Oct 2023
		Works area of 3508	GW-RS0534-23	Valid from 1 Jul 2023 to 30 Nov 2023
		Works area of 3508	GW-RS0603-23	Valid from 23 Jul 2023 to 1 Oct 2023
		Works area of 3508	GW-RS0373-23	Valid from 14 May 2023 to 17 Oct 2023
		Works area of 3508	GW-RS0635-23	Valid from 4 Aug 2023 to 31 Jan 2024
		Works area of 3508	GW-RS0770-23	Valid from 10 Sep 2023 to 31 Dec 2023
		Works area of 3508	GW-RS0739-23	Valid from 1 Sep 2023 to 30 Nov 2023
3601	Notification of Construction Work under APCO	Works area of 3601	451762	Receipt acknowledged by EPD on 10 Dec 2019
	Registration as Chemical Waste Producer	Works area of 3601	WPN 7119-951- C4421-01	Completion of Registration on 9 Jan 2020
	Bill Account for disposal	Works area of 3601	A/C 7029991	Approval granted from EPD on 1 Feb 2018
	Construction Noise Permit (General Works)	Works area of 3601	GW-RS0356-23	Valid from 8 May 2023 to 7 Nov 2023
3602	Notification of Construction Work under APCO	Works area of 3602	421278	Receipt acknowledged by EPD on 18 Sep 2017
	Registration as Chemical Waste	Works area of 3602	WPN 5296-951- N2673-01	Completion of Registration on 9 Oct 2017
	Producer	Site office of 3602	WPN 5296-951- N2673-02	Completion of Registration on 11 Dec 2017
	Bill Account for disposal	Works area of 3602	A/C 7028942	Approval granted from EPD on 6 Oct 2017
3603	Notification of Construction Work under APCO	Site office of 3603	433604	Receipt acknowledged by EPD on 16 May 2018
	Registration as Chemical Waste Producer	Site office of 3603	5296-951-S4069- 01	Completion of Registration on 22 Jan 2018
	Bill Account for disposal	Works area of 3603	A/C 7030002	Approval granted from EPD on 1 Feb 2018

Contract No.	Description	Location	Permit/ Reference No.	Status
	Construction Noise Permit (General Works)	Works area of 3603	GW-RS0357-23	Valid from 23 May 2023 to 22 Nov 2023
3721	Notification of Construction Work under APCO	Works area of 3721	448657	Receipt acknowledged by EPD on 02 Sep 2019
	Bill Account for disposal	Works area of 3721	A/C 7035234	Approval granted from EPD on 25 Sep 2019
	Construction Noise Permit (General Works)	Works area of 3721	GW-RS0491-23	Valid from 19 Jun 2023 to 15 Dec 2023
3728	Registration as Chemical Waste Producer	Works area of 3728	WPN 5111-951- S3467-03	Completion of Registration on 7 May 2021
	Discharge License under WPCO	Works area of 3728	WT00037809- 2021	Valid from 27 Jul 2021 to 31 Jul 2026
	Bill Account for disposal	Works area of 3728	A/C 7039409	Approval granted from EPD on 22 Jan 2021
3733	Notification of Construction Work under APCO	Works area of 3733	472772	Receipt acknowledged by EPD on 18 Oct 2021
	Registration as Chemical Waste Producer	Works area of 3733	474728	Receipt acknowledged by EPD on 9 Dec 2021
	Bill Account for disposal	Works area of 3733	7041945	Approval granted from EPD on 21 Oct 2021
	Construction Noise Permit (General Works)	Works area of 3733	GW-RS0395-23	Valid from 18 May 2023 to 15 Nov 2023
3801	Notification of Construction	Works area of 3801	488993	Receipt acknowledged by EPD on 2 Feb 2023
	Work under APCO	Stockpiling area of 3801	454269	Receipt acknowledged by EPD on 12 Mar 2020
			450940	Receipt acknowledged by EPD on 13 Nov 2019
	Registration as Chemical Waste Producer	Works area of 3801	WPN 5296-951- C1169-53	Completion of Registration on 14 Aug 2018
	Discharge License under	Works area of 3801	WT00041429- 2022	Valid from 16 Aug 2022 to 31 Aug 2027
	WPCO	Stockpiling area of 3801	WT00037354- 2021	Valid from 8 Mar 2021 to 31 Mar 2026
	Bill Account for disposal	Works area of 3801	A/C 7028254	Approval granted from EPD on 3 Jul 2017
	Construction Noise Permit	Works area of 3801	GW-RS0646-23	Valid from 5 Aug 2023 to 2 Feb 2024
	(General Works)	Works area of 3801	GW-RS0863-23	Valid from 30 Sep 2023 to 27 Mar 2024
3802	Notification of Construction Work under APCO	Works area of 3802	458122	Receipt acknowledged by EPD on 14 Jul 2020

Contract No.	Description	Location	Permit/ Reference No.	Status
	Registration as Chemical Waste	Works area of 3802	WPN 5218-951- G2895-01	Completion of Registration on 28 Aug 2020
	Producer	Works area of 3802 (Existing airport)	WPN 5218-951- G2945-01	Completion of Registration on 29 Sep 2020
	Discharge License under	Works area of 3802	WT00037032- 2020	Valid from 25 May 2021 to 31 May 2026
	WPCO	Works area of 3802 (Existing	WT00039092- 2021	Valid from 30 Nov 2021 to 31 Nov 2026
		airport)	WT00043143- 2023	Valid from 17 Mar 2023 to 31 Mar 2028
			WT00041807- 2022	Valid from 3 Oct 2022 to 31 Oct 2027
	Bill Account for disposal		A/C 7037575	Approval granted from EPD on 15 Jun 2020
	Construction Noise Permit	Works area of 3802	GW-RS0760-23	Valid from 1 Sep 2023 to 3 Mar 2024
	(General Works)	Works area of 3802 (Existing airport)	GW-RS0432-23	Valid from 5 Jun 2023 to 4 Dec 2023
		Works area of 3802 (Ventilation building)	GW-RS0632-23	Valid from 31 Jul 2023 to 26 Jan 2024
3804	Notification of Construction Work under APCO	Works area of 3804	487452	Receipt acknowledged by EPD on 14 Dec 2022
	Construction Noise Permit (General Works)	Works area of 3804	GW-RS0629-23	Valid from 31 Jul 2023 to 27 Jan 2024
	Registration as Chemical Waste Producer	Works area of 3804	WPN 5213-951- B2686-01	Completion of Registration on 4 Jan 2023
	Bill Account for disposal	Works area of 3804	A/C 7046121	Approval granted from EPD on 3 Jan 2023
	Discharge License under WPCO	Works area of 3804	WT00044391- 2023	Valid from 17 Aug 2023 to 31 Aug 2028
3805	Notification of Construction Work under APCO	Works area of 3805	490065	Receipt acknowledged by EPD on 2 Mar 2023
	Registration as Chemical Waste Producer	Works area of 3805	WPN 5218-951- C4788-01	Completion of Registration on 31 Mar 2023
	Bill Account for disposal	Works area of 3805	A/C 7046828	Approval granted from EPD on 10 Mar 2023
	Discharge License under WPCO	Works area of 3805	WT00043804- 2023	Valid from 15 Jun 2023 to 30 Jun 2028
	Construction Noise Permit (General Works)	Works area of 3805	GW-RS0750-23	Valid from 4 Sep 2023 to 3 Mar 2024

Contract No.	Description	Location	Permit/ Reference No.	Status
3901A	Notification of Construction Work under APCO	Works area of 3901A	466883	Receipt acknowledged by EPD on 26 Apr 2021
	Air Pollution Control (Furnaces, Ovens and Chimneys) (Installation and Alteration) Regulations	Works area of 3901A	EP/RS/00004430 53	Approval granted on 11 Dec 2020
	Specified Process license under APCO	Works area of 3901A	L-3-261(1)	Valid from 14 Sep 2020 to 13 Sep 2024
	Landfill Disposal of Waste Concrete from Batching Plant	Works area of 3901A	EP195/01/18	Valid from 10 Feb 2023 to 9 Nov 2023
	Registration as Chemical Waste Producer	Works area of 3901A	WPN 5218-951- K3400-01	Completion of Registration on 17 Jul 2020
	Bill Account for disposal	Works area of 3901A	A/C 7037889	Approval granted from EPD on 20 Jul 2020
	Construction Noise Permit (General Works)	Works area of 3901A	GW-RS0620-23	Valid from 5 Aug 2023 to 4 Feb 2024
3901B	Air Pollution Control (Furnaces, Ovens and Chimneys) (Installation and Alteration) Regulations	Works area of 3901B	EP/RS/00004384 88	Approval granted on 26 Jun 2020
	Specified Process license under APCO	Works area of 3901B	L-3-262(1)	Valid from 17 Nov 2020 to 16 Nov 2024
	Registration as Chemical Waste Producer	Works area of 3901B	WPN 5218-951- G2880-01	Completion of Registration on 17 Jan 2020
	Bill Account for disposal	Works area of 3901B	A/C 7032417	Approval granted from EPD on 13 Nov 2018
	Construction Noise Permit (General Works)	Works area of 3901B	GW-RS0625-23	Valid from 5 Aug 2023 to 4 Feb 2024
3913	Specified Process license under APCO	Works area of 3913	L-15-040 (1)	Valid from 29 Mar 2021 to 28 Mar 2025
	Registration as Chemical Waste Producer	Works area of 3913	5213-951-S4405- 01	Completion of Registration on 22 Jul 2022, updated on 29 Mar 2023
	Bill Account for disposal	Works area of 3913	A/C 7044632	Approval granted from EPD on 18 Aug 2022
	Construction Noise Permit (General Works)	Works area of 3913	GW-RS0772-23	Valid from 20 Sep 2023 to 19 Mar 2024

Contract No.	Description	Location	Permit/ Reference No.	Status
132 kV Cable	Bill Account for disposal	Works area of 132 kV Cable	A/C 7039280	Approval granted from EPD on 8 Jan 2021

# Appendix F. Cumulative Statistics on Exceedances, Environmental Complaints, Notification of Summons and Status of Prosecutions

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

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

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

#### Statistics for Complaints, Notifications of Summons and Prosecutions

Reporting Period	Cumulative Statistics				
	Complaints	Notifications of Summons	Prosecutions		
This reporting period	0	0	0		
From 28 December 2015 to end of the reporting period	59	2	2		

## Appendix G. Data of SkyPier HSF Movements to/from Macau (between 1 and 30 September 2023)

#### Data of SkyPier HSF Movements to/from Macau (between 1 and 30 Sep 2023)

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [YFT – Macao (Taipa)]	Travel Direction [Arrival at / Departure from HKIA SkyPier]	Average Speed within Speed Control Zone (knots)	Extent of Instantaneous Speeding by SkyPier HSFs across SCZ (knots)	Duration of the Instantaneous Speeding (min)
5-Sep	11:55	8S912	YFT	Arrival	12.4	-	-
5-Sep	13:46	8S193	YFT	Departure	13.3	-	-
6-Sep	12:00	8S912	YFT	Arrival	12.6	-	-
6-Sep	12:45	8S193	YFT	Departure	11.9	-	-
8-Sep	12:10	8S912	YFT	Arrival	12	-	-
8-Sep	12:59	8S193	YFT	Departure	12.7	-	-
12-Sep	11:59	8S912	YFT	Arrival	12.1	-	-
12-Sep	12:45	8S193	YFT	Departure	12.6	-	-
13-Sep	12:03	8S912	YFT	Arrival	12.4	-	-
13-Sep	12:44	8S193	YFT	Departure	13	-	-
15-Sep	11:59	8S912	YFT	Arrival	11.1	-	-
15-Sep	12:44	8S193	YFT	Departure	12.6	-	-
19-Sep	12:06	8S912	YFT	Arrival	13.3	-	-
19-Sep	12:38	8S193	YFT	Departure	12.7	-	-
20-Sep	12:03	8S912	YFT	Arrival	12.1	-	-
20-Sep	12:48	8S193	YFT	Departure	12.2	-	-
22-Sep	11:57	8S912	YFT	Arrival	12.8	-	-
22-Sep	12:54	8S193	YFT	Departure	13.1	-	-
26-Sep	12:03	8S912	YFT	Arrival	13.2	-	-
26-Sep	12:51	8S193	YFT	Departure	12.7	-	-
27-Sep	12:05	8S912	YFT	Arrival	12.5	-	-
27-Sep	12:46	8S193	YFT	Departure	12.2	-	-
29-Sep	11:58	8S912	YFT	Arrival	12.8	=	-
29-Sep	12:53	8S193	YFT	Departure	13	-	-

<sup>\*\*</sup> Insufficient or no AIS data for speed calculation.

#### Follow-up on instantaneous speeding

Referring to the data of SkyPier HSF movements in Sep 2023, no instantaneous speeding (i.e. a sudden change in speed at over 15 knots for a short period of time) within the SCZ was recorded.