

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

Construction Phase Monthly EM&A Report No. 88 (For April 2023)

May 2023

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## This Monthly EM&A Report No. 88 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 12 May 2023



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#### By Email

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

Attn: Mr. Lawrence Tsui, Principal Manager, Environmental Compliance

12 May 2023

Dear Sir,

Contract No. 3102 3RS Independent Environmental Checker Consultancy Services

#### Submission of Monthly EM&A Report No. 88 (April 2023)

Reference is made to the Environmental Team's submission of the Monthly EM&A Report No. 88 under Condition 3.5 of the Environmental Permit No. EP-489/2014 certified by the ET Leader on 12 May 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

## **Contents**

Abl	orevia	tions		1
Exe	ecutive	e summa	ry	3
1	Intro	oduction		8
	1.1	Backgro	ound	8
	1.2	_	of this Report	8
	1.3	•	Organisation	8
	1.4	-	rry of Construction Works	12
	1.5	Summa	ry of EM&A Programme Requirements	12
2	Air (	Quality M	Monitoring (1997)	16
	2.1	Action a	and Limit Levels	16
	2.2		ing Equipment	16
	2.3		ing Methodology	16
		2.3.1	Measuring Procedure	16
		2.3.2	Maintenance and Calibration	17
	2.4	Summa	ry of Monitoring Results	17
	2.5	Conclus	sion	17
3	Nois	se Monito	oring	18
	3.1	Action a	and Limit Levels	18
	3.2	Monitor	ing Equipment	18
	3.3		ing Methodology	19
		3.3.1	Monitoring Procedure	19
		3.3.2	Maintenance and Calibration	19
	3.4	Summa	ry of Monitoring Results	19
	3.5	Conclus	sion	20
4	Wat	er Qualit	y Monitoring	21
	4.1	Action a	and Limit Levels	22
	4.2	Monitor	ing Equipment	22
	4.3	Monitor	ing Methodology	23
		4.3.1	Measuring Procedure	23
		4.3.2	Maintenance and Calibration	23
		4.3.3	Laboratory Measurement / Analysis	24
	4.4	Summa	ry of Monitoring Results	24
	4.5	Conclus	sion	24
5	Was	ste Mana	agement	25
	5.1	Action a	and Limit Levels	25

	5.2	Waste M	Management Status	25
	5.3	Marine S	Sediment Management	26
6	Chir	nese Whi	te Dolphin Monitoring	27
	6.1	Action a	nd Limit Levels	27
	6.2	CWD Mo	onitoring Transects and Stations	27
		6.2.1	Small Vessel Line-transect Survey	27
		6.2.2	Land-based Theodolite Tracking Survey	29
	6.3	CWD Mo	onitoring Methodology	29
		6.3.1	Small Vessel Line-transect Survey	29
		6.3.2	Photo Identification	30
		6.3.3	Land-based Theodolite Tracking Survey	30
	6.4	Monitori	ng Results and Observations	31
		6.4.1	Small Vessel Line-transect Survey	31
		6.4.2	Photo Identification	34
		6.4.3	Land-based Theodolite Tracking Survey	34
	6.5	Progress	s Update on Passive Acoustic Monitoring	34
	6.6	Site Aud	lit for CWD-related Mitigation Measures	35
	6.7	Timing o	of reporting CWD Monitoring Results	35
	6.8	Summar	ry of CWD Monitoring	35
7	Envi	ronment	al Site Inspection and Audit	36
	7.1	Environr	mental Site Inspection	36
	7.2	Landsca	ape and Visual Mitigation Measures	36
	7.3	Land Co	ontamination Assessment	42
	7.4	Audit of	SkyPier High Speed Ferries	42
	7.5	Audit of	Construction and Associated Vessels	43
	7.6	Impleme	entation of Dolphin Exclusion Zone	44
	7.7	Status o	f Submissions under Environmental Permits	44
	7.8	Complia	nce with Other Statutory Environmental Requirements	45
	7.9		and Interpretation of Complaints, Notification of Summons and for Prosecutions	45
		7.9.1	Complaints	45
		7.9.2	Notifications of Summons or Status of Prosecution	45
		7.9.3	Cumulative Statistics	45
8	Futu	ıre Kev Is	ssues and Other EIA & EM&A Issues	46
	8.1	•	ction Programme for the Coming Reporting Period	46
	8.2		rironmental Issues for the Coming Reporting Period	48
	8.3	•	ng Schedule for the Coming Reporting Period	48
	8.4		of the Key Assumptions Adopted in the EIA Report	48
9	Con	clusion a	and Recommendation	49

## Tables

Table 1.1: Contact Information of Key Personnel	8
Table 1.2: Summary of Status of All Environmental Aspects under the Updated EM&A	
Manual	12
Table 2.1: Locations of Impact Air Quality Monitoring Stations	16
Table 2.2: Action and Limit Levels of Air Quality Monitoring	16
Table 2.3: Air Quality Monitoring Equipment	16
Table 2.4: Summary of Air Quality Monitoring Results	17
Table 3.1: Locations of Impact Noise Monitoring Stations	18
Table 3.2: Action and Limit Levels for Noise Monitoring	18
Table 3.3: Noise Monitoring Equipment	19
Table 3.4: Summary of Construction Noise Monitoring Results	20
Table 4.1: Monitoring Locations of Impact Water Quality Monitoring	21
Table 4.2: Action and Limit Levels for General Water Quality Monitoring	22
Table 4.3: The Control and Impact Stations during Flood Tide and Ebb Tide for General	
Water Quality Monitoring	22
Table 4.4: Water Quality Monitoring Equipment	23
Table 4.5: Other Monitoring Equipment	23
Table 4.6: Laboratory Measurement/ Analysis of SS	24
Table 5.1: Action and Limit Levels for Construction Waste	25
Table 5.2: Construction Waste Statistics	25
Table 6.1: Derived Values of Action and Limit Levels for Chinese White Dolphin Monitoring	27
Table 6.2: Coordinates of Transect Lines in NEL, NWL, AW, WL and SWL Survey Areas	28
Table 6.3: Land-based Theodolite Survey Station Details	29
Table 6.4: Comparison of CWD Encounter Rates of the Whole Survey Area with Action	
Levels	33
Table 6.5: Summary of Photo Identification	34
Table 6.6: Summary of Survey Effort and CWD Group of Land-based Theodolite Tracking	34
Table 7.1: Landscape and Visual – Construction Phase Audit Summary	37
Table 7.2: Examples of Landscape and Visual Mitigation Measures in the Reporting	
Periods	38
Table 7.3: Monitoring Programme for Landscape and Visual	39
Table 7.4: Event and Action Plan for Landscape and Visual	39
Table 7.5: Summary of the Number of Retained, Transplanted and To-be-transplanted	
Trees in the Reporting Period	40
Table 7.6: Summary of the Transplanted Trees Updated in the Reporting Period	40
Table 7.7: Summary of Key Audit Findings against the SkyPier Plan	43
Table 7.8: Status of Submissions under Environmental Permit	44

## Figures

Figure 1.1	Locations of Key Construction Activities
Figure 2.1	Locations of Air and Noise Monitoring Stations and Chek Lap Kok Wind Station
Figure 4.1	Water Quality Monitoring Stations
Figure 6.1	Vessel based Dolphin Monitoring Transects in Construction, Post-construction and Operation Phases
Figure 6.2	Land based Dolphin Monitoring in Baseline and Construction Phases
Figure 6.3	Sightings Distribution of Chinese White Dolphins
Figure 6.4	Location for Autonomous Passive Acoustic Monitoring
Figure 7.1	Duration of the SkyPier HSFs travelling through the SCZ for April 2023

### **Appendices**

Appendix A	Contract Description		
Appendix B	Environmental Mitigation Implementation Schedule (EMIS) for Construction Phase		
Appendix C	Monitoring Schedule		
Appendix D	Monitoring Results		
Appendix E	Status of Environmental Permits and Licences		
Appendix F	Cumulative Statistics on Exceedances, Environmental Complaints, Notification of Summons and Status of Prosecutions		
Appendix G	Data of SkyPier HSF Movements to/from Macau (between 1 and 30 April 2023)		

## **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 88<sup>th</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 April 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 seawall construction, filling and land-based ground improvement work, together with taxiways, concourse and associated works. Land-based works on existing airport island involved mainly airfield works, Terminal 2 expansion works, modification and tunnel work for Automated People Mover (APM) and Baggage Handling System (BHS), and preparation work for utilities, with activities include road and drainage works, cable ducting, demolition, piling, and excavation works.

#### **EM&A Activities Conducted in the Reporting Period**

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

Monitoring Activities	Number of Sessions
1-hour Total Suspended Particulates (TSP) air quality monitoring	36
Noise monitoring	16
Water quality monitoring	13
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 Marine Mammal Watching Plan (MMWP) and Dolphin Exclusion Zone (DEZ) Plan, were conducted in the reporting period. Based on the information including ET's observations, records of Maritime Surveillance System (MSS), and contractors' site records, it is noted that environmental pollution control and mitigation measures were properly implemented and construction activities of the Project in the reporting period did not introduce adverse impacts to the sensitive receivers.

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



On-site Checking of Construction Noise Permit conducted by ET



Dust Suppression Measure conducted by Contractor



Checking of Daily Water Quality
Monitoring Record for
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**

#### **Reclamation Works:**

#### **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;
- Utilities and backfilling works; and
- Stockpiling.

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

- Enhanced vehicular warning light hardware installation;
- Rectification work for airfield ground lighting system; and
- Cable containment installation.

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

Equipment installation.

#### **Contract 3307 Fire Training Facility**

Drainage and utilities works.

#### Contract 3308 Foreign Object Debris Detection System

Rectification work for handover sensor system.

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

- Architectural, builder's work and finishing works;
- Seawall construction;
- Construction of stormwater drainage; and

Construction of walls and slabs.

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

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

- Builder's work for cable conduit; and
- Mechanical Ventilation & Air-Conditioning & Fire Services works.

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

System maintenance.

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

- Structure works;
- Setup of temporary drainage system; and
- Road formation.

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

- Building services and Architectural, builder's work and finishing works;
- Foundation Works for Concrete Batching Plant; and
- Reinforced concrete works.

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

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

- Bridge demolition, hoarding erection;
- Pier and temporary road construction;
- 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)

Guidebeam installation.

#### Contract 3602 Existing APM System Modification Works

- Erection and fixing of power rail; and
- Concrete plinth construction.

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

BHS installation.

#### **Construction Support (Facilities):**

#### **Contract 3721 Construction Support Infrastructure Works**

Provision of backup services;

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

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

- Dismantling works;
- Duct installation and concreting;
- Drainage construction; and
- Installation of steel decking formworks

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

- Excavation and lateral supports;
- Box culvert construction;
- Tunnel construction;
- Electrical and mechanical works; and

Architectural, builder's work and finishing works.

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

- Site setup and formation works;
- Bored pile works;
- Excavation and concreting.

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

- Ground Investigation works;
- Construction of temporary working platform.

#### **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.

#### **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^		√	No breach of Limit Level was recorded.	Nil
Breach of Action Level^		√	No breach of Action Level was recorded.	Nil
Complaint Received		√	No construction activities-related complaint was received during the reporting period.	Nil
Notification of any summons and status of prosecutions		√	No notification of summons nor prosecution was received.	Nil
Change that affect the EM&A		√	There was no change to the construction works that may affect the EM&A.	Nil

Note:

<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**. Description of relevant contracts was presented in **Appendix A**.

#### 1.2 Scope of this Report

This is the 88<sup>th</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 April 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) (Mott MacDonald Hong Kong Limited)	Environmental Team Leader	Terence Kong	2828 5919

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

Party	Position	Name	Telephone
	Deputy Environmental Team Leaders	Heidi Yu	2828 5704
	ream Educio	Ken Wong	2828 5817
Independent Environmental Checker (IEC) (AECOM Asia Company Limited)	Independent Environmental Checker	Roy Man	3922 9141
	Deputy Independent Environmental Checker	Jackel Law	3922 9376
Reclamation Works:			
Party	Position	Name	Telephone
Contract 3206 Main Reclamation Works (ZHEC-CCCC-CDC Joint	Project Manager	Alan Mong	3763 1352
Venture)	Environmental Officer	Zhang Bin Wang	3763 1525
Airfield Works:			
Party	Position	Name	Telephone
Contract 3302 Eastern Vehicular Tunnel Advance	Project Manager	Dickey Yau	5699 4503
Works (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 Control System	Project Director	Dennis Yam	9551 9920
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 Modification	Project Manager	Kingsley Chiang	9424 8437
Works (China State Construction Engineering (Hong Kong) Ltd.)	Environmental Officer	Federick Wong	9842 2703

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

Party	Position	Name	Telephone
Contract 3402 New Integrated Airport Centres Enabling Works	Project Manager	Wyman Lau	6112 9753
(Wing Hing Construction Co., Ltd.)	Health Safety Environmental Manager	Mike Leung	6625 2550
Contract 3403 New Integrated Airport Centres Building and Civil Works	Project Manager	Alice Leung	9220 3162
(Sun Fook Kong Construction Limited)	Environmental Officer	Ray Cheung	9785 1566
Contract 3404 Integrated Airport Control System (Shun Hing Systems	Project Manager	Andy Ng	9102 2739
Integration Co., Ltd.)	Safety Officer	Keith Chau	9620 7515
Contract 3405 Third Runway Concourse Foundation and Substructure Works (China Road and Bridge Corporation – Bachy Soletanche Group Limited – LT Sambo Co., Ltd. Joint Venture)	Project Manager	Francis Choi	9423 3469
	Environmental Officer	Jacky Lai	9028 8975
Contract 3408 Third Runway Concourse and Apron Works (Beijing Urban	Assistant Project Manager	Qian Zhang	5377 7976
Construction 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 (Gammon Engineering & Construction Company Limited)	Project Director	Richard Ellis	6201 5637
	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 System (TRC Line) (CRRC Puzhen	Project Manager	Hongdan Wei	158 6180 9450
Bombardier Transportation Systems Limited and CRRC Nanjing Puzhen Co., Ltd. Joint Venture)	Environmental Officer	H Y Yue	9185 8186

Party	Position		Name	Telephone
Contract 3602 Existing APM System Modification Works (Niigata Transys Co., Ltd.)  Project Mana Environment		nager	Kunihiro Tatecho	9755 0351
		ntal Officer	Y M Tong	5316 9801
Contract 3603 3RS Project Ma Baggage Handling System		nager	K C Ho	9272 9626
(VISH Consortium)	Environmer	ntal Officer	Richard Ng	9802 9577
Construction Support	(Facilities):			
	sition		Name	Telephone
Contract 3721 Construction S	Support	Site Agent	Thomas Lui	9011 5340
Infrastructure Works (China State Construction Er (Hong Kong) Ltd.)		Environmental Officer	John Mak	6273 8703
Contract 3728 Minor Site Wo (Shun Yuen Construction Co		Contract Manager	C K Liu	9194 8739
Limited)		Environmental Officer	Dan Leung	6856 5899
Contract 3733 Emergency Ro (Wing Hing Construction Co.		Project Manager	Michael Kan	9206 0550
		Safety Health Environmental Manager	Mike Leung	6625 2550
Airport Support Infrast	ructure:			
Party	Position		Name	Telephone
Contract 3801 APM and BHS Tunnels on Existing Airport Island	Project Mar	nager	Kingsley Chiang	9424 8437
(China State Construction	Environmen			
Engineering (Hong Kong) Ltd.)	Environmen	tal Officer	Eunice Kwok	9243 1331
Engineering (Hong Kong)	Project Dire		Eunice Kwok  John Adams	9243 1331 6111 6989
Engineering (Hong Kong) Ltd.)  Contract 3802 APM and BHS Tunnels and Related		ector		
Engineering (Hong Kong) Ltd.)  Contract 3802 APM and BHS Tunnels and Related Works (Gammon Construction	Project Dire	ector	John Adams	6111 6989

Party	Position	Name	Telephone
(Leung's) General Contractors Ltd Joint Venture)			
Contract 3805 New Airport District Police Operational Base (Chinney Construction Co., Ltd.)	Project Manager	Chetirywiyinayayai	93993838321
	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
Contract 3901B Concrete Batching Facility	General Manager	Gabriel Chan	2435 3260
(Gammon Construction Limited)	Environmental Officer	Rex Wong	2695 6319
Contract 3908 Quay Management Services (Gitanes – Crown Asia Joint Venture)	Project Manager	Mr. Ian Li	9750 6438
	Environmental Officer	Mr. Tang Kai Fun	9406 3526
Contract 3913 Asphalt Batching Plant	Project Manager	Xie Yi Sheng	6580 6005
(SPR Joint Venture)	Environmental Officer	Kenneth Chan	9300 2182

#### 1.4 Summary of Construction Works

The key activities of the Project carried out in the reporting period are located in reclamation areas and existing airport island respectively. Works in the reclamation areas included seawall construction, filling and land-based ground improvement work, together with taxiways, concourse and associated works. Land-based works on existing airport island involved mainly airfield works, Terminal 2 expansion works, modification and tunnel work for Automated People Mover (APM) and Baggage Handling System (BHS), and preparation work for utilities, with activities include road and drainage works, cable ducting, demolition, piling, and excavation works.

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

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

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

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

Parameters	EM&A Requirements	Status
Noise	•	
Baseline Monitoring	Daily for a period of at least two weeks prior to the commencement of construction works	The baseline noise monitoring result was reported in Baseline Monitoring Report and submitted to EPD under EP Condition 3.4.
Impact Monitoring	Weekly	On-going
Water Quality		
General Baseline Water Quality Monitoring for reclamation, water jetting and field joint works	Three days per week, at mid-flood and mid-ebb tides, for at least four weeks prior to the commencement of marine works.	The baseline water quality monitoring result was reported in Baseline Water Quality Monitoring Report and submitted to EPD under EP Condition 3.4.
General Impact Water Quality Monitoring for reclamation, water jetting and field joint works	Three days per week, at mid-flood and mid-ebb tides.	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 Platon 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 H <sub>2</sub> S monitoring proposal wa submitted to EPD in Apr 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 Survey Plan	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.
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.
Marina Faalagy		
Marine Ecology		
Pre-Construction Phase Coral Dive Survey	Prior to marine construction works	The Coral Translocation Plan was submitted and approved by EPD under EP Condition 2.12.

As per an enhanced monitoring programme based on the Coral Translocation Plan  As per an enhanced monitoring programme according to the Coral Translocation Plan was completed in April 2018.  Ininese White Dolphins (CWD)  Asseline 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.  Pact Monitoring  Status  The post-translocation monitoring programme according to the Coral Translocation Plan was completed in April 2018.  Baseline CWD results were reported the CWD Baseline Monitoring Report submitted to EPD in accordance with Condition 3.4.
programme based on the Coral Translocation Plan programme according to the Coral Translocation Plan programme according to the Coral Translocation Plan was completed in April 2018.  In thinese White Dolphins (CWD)  It is a seline Monitoring asseline Monitoring asseline 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.  In pact Monitoring Vessel line transect surveys: Two full On-going
aseline 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.  Vessel line transect surveys: Two full On-going
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.  The commencement of land formation the CWD Baseline Monitoring Report submitted to EPD in accordance with Condition 3.4.  Tondition 3.4.  The cwd Baseline Monitoring Report submitted to EPD in accordance with Condition 3.4.  The condition 3.4.  The cwd Baseline Monitoring Report submitted to EPD in accordance with Condition 3.4.
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.
andscape & Visual
andscape & 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 the commencement of construction works and approved by EPD under the commencement of construction works.  EP Condition 2.18
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 Conditior 3.4.
pact Monitoring Weekly On-going
nvironmental Auditing
egular site inspection Weekly On-going
arine Mammal Monitor and check On-going atching Plan (MMWP) aplementation measures
olphin Exclusion Zone Monitor and check On-going PEZ) Plan Perplementation measures
kyPier High Speed Monitor and check On-going erries (HSF) uplementation measures
onstruction and Monitor and check On-going sociated Vessels aplementation measures
It Curtain Deployment Monitor and check On-going an implementation easures
an implementation
an implementation easures  bill Response Plan Monitor and check 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:

 Seventeen environmental management meetings for EM&A review with works contracts: 12, 13, 18, 19, 20, 21, 25 and 26 April 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 B**.

## 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

<b>Monitoring Station</b>	Action Level (μg/m³)	Limit Level (μg/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-2 (Serial No. 296098)	16 Sep 2022	Appendix D of Monthly EM&A Report No. 83

#### 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 C**.

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

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

Monitoring Station	1-hr TSP Concentration Range (μg/m³)	Action Level (μg/m³)	Limit Level (μg/m³)
AR1A	13 - 48	306	500
AR2	14 - 50	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** 

<b>Monitoring Stations</b>	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:

 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 2022	Appendix D of Monthly EM&A Report No. 79

#### 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,  $L_{eq}$ ,  $L_{10}$  and  $L_{90}$  were recorded. In addition, site conditions and noise sources were recorded on a record sheet.
- f. Noise measurement results, 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 C**.

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

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

<b>Monitoring Station</b>	Noise Level Range, dB(A)	Limit Level, dB(A)
	Leq (30mins)	Leq (30mins)
NM1A <sup>(1)</sup>	64 - 67	75
NM4 <sup>(1) (3)</sup>	58 - 66	70 <sup>(2)</sup>
NM5 <sup>(1) (3)</sup>	61 - 62	75
NM6 <sup>(1) (3)</sup>	63 - 67	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 also within the corresponding Limit Levels at all monitoring stations in the reporting period.

#### 3.5 Conclusion

As the construction activities were far away from the monitoring stations, major sources of noise dominating the monitoring stations observed during the construction noise impact monitoring were traffic noise near NM1A, school activities 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	Coordinates		<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,</li><li>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 Level (AL)		Limit Level (LL)	
Action and Limit Levels for general water quality monitoring (excluding SR1A & SR8)					
General Water Quality Monitoring	DO in mg/l (Surface, Middle & Bottom)	Surface and Middle 4.5mg/l		Surface and Middle 4.1mg/l	
		Bottom 3.4mg/l		Bottom 2.7mg/l	
	Suspended Solids (SS) in mg/l	23	or 120% of upstream control station at the same tide of the same day, whichever is higher	up	or 130% of upstream control
	Turbidity in NTU	22.6		36.1	station at the same tide of the same day, whichever is higher
Action and Li	mit Levels SR1A				
SS (mg/l))		33		42	
Action and Li	mit Levels SR8				
SS (mg/l)		52		60	

#### Notes:

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

Control Station	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,	YSI ProDSS (Serial No. 15M100005)	17 Mar 2023	Appendix D of Monthly EM&A Report No. 87
pH, temperature, salinity and turbidity) Multifunctional Meter (measurement of DO, pH, temperature, salinity and turbidity)	YSI ProDSS (Serial No. 21G105356)	17 Mar 2023	Appendix D of Monthly EM&A Report No. 87

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

The water quality monitoring results for all parameters, (i.e. 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 D**.

#### 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 inspection 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 received	Non-compliance of the WMP, contract-specific WMPs, any statutory and contractual requirements

#### **5.2 Waste Management Status**

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

Recommendations made included provision and maintenance of proper chemical waste storage area, as well as handling, segregation, and regular disposal of general refuse. The contractors 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 B**.

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** 

		Reused in the Project	Reused in other	Transferred to Public Fill	Chemical Waste (kg)	Chemical Waste (I)	General Refuse (tonne)
April 2023 <sup>(2)</sup>	2,037	184	1,104	10,665	0	0	2,781

#### 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.6.

### 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(3)	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
		NE			
1S	813525	820900	6N	818568	824433
1N	813525	824657	7S	819532	821420
2S	814556	818449	7N	819532	824209
2N	814559	824768	8S	820451	822125
3S	815542	818807	8N	820451	823671
3N	815542	824882	9S	821504	822371
4S	816506	819480	9N	821504	823761
4N	816506	824859	10S	822513	823268
5S	817537	820220	10N	822513	824321
5N	817537	824613	11S	823477	823402
6S	818568	820735	11N	823477	824613
		NV			
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	N		
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	88	809547	800338
3N	804484	807048	8N	809547	807396
48	805478	802105	98	810542	800423
4N	805478	807556	9N	810542	807462
5S	806473	801250	108	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 11, 12, 13, 14, 18, 19, 20 and 21 April 2023 covering all transects in NEL, NWL, AW, WL and SWL survey areas for twice.

A total of around 450.33 km of survey effort was collected from these surveys and around 414.43 km of these 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 D**.

#### **Sighting Distribution**

In the current reporting period, eight sightings with 46 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 cetacean sightings are presented in **Appendix D**.

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. There was no CWD sighting recorded in NEL, NWL and SWL survey areas during the reporting period.

LEGEND

SIGHTING LOCATIONS OF CWD

SIGHT LOCATIONS OF CWD

SIGH

Figure 6.3: Sightings Distribution of Chinese White Dolphins

Remarks: (1) Please note that there are eight 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 414.43 km of survey effort was conducted under Beaufort Sea State 3 or below with favourable visibility, whilst a total number of 8 on-effort sightings with 46 dolphins were sighted under such condition. Calculation of the encounter rates for the month are shown in **Appendix D**.

For the running quarter of the reporting period (i.e., from February to April 2023), a total of around 1270.45 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 193 dolphins from on-effort sightings were obtained under such condition. Calculation of the running quarterly encounter rates are shown in **Appendix D**.

The STG and ANI of CWD in the whole survey area (i.e. NEL, NWL, AW, WL and SWL) during the 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)
April 2023	1.93	11.10
Running Quarter from February to April 2023 <sup>(1)</sup>	3.46	15.19
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, eight groups of 46 dolphins in total were sighted, and the average group size of CWDs was 5.75 dolphins per group. The majority of the CWD sightings was having medium group size (i.e. 3-9 dolphins). There was one CWD sighting with large group size (i.e. 10 or more dolphins) recorded in WL area in the current reporting period.

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

There were four CWD sightings recorded engaging in foraging activities in the current reporting period in WL survey area. Amongst these four sightings, two were observed in association with operating purse seiner in WL.

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

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

Sighting Area

#### 6.4.2 Photo Identification

Individual ID Date of

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

Individual ID Date of

**Sighting** 

(dd-mmm- No

Table 6.5: Summary of Photo Identification

	Sighting (dd-mmm- yy)	Group No.	
NLMM020	13-Apr-23	1	WL
		2	WL
NLMM021	13-Apr-23	1	WL
NLMM027	13-Apr-23	1	WL
SLMM003	13-Apr-23	5	WL
	18-Apr-23	2	WL
SLMM007	13-Apr-23	5	WL
	18-Apr-23	1	WL
SLMM010	18-Apr-23	3	WL
SLMM014	18-Apr-23	3	WL
SLMM031	18-Apr-23	3	WL
SLMM037	13-Apr-23	1	WL
		2	WL
SLMM044	13-Apr-23	1	WL
		2	WL

	yy)	NO.	
SLMM049	13-Apr-23	2	WL
SLMM052	13-Apr-23	5	WL
SLMM073	13-Apr-23	5	WL
WLMM043	13-Apr-23	1	WL
WLMM056	13-Apr-23	1	WL
		2	WL
WLMM063	13-Apr-23	4	WL
	18-Apr-23	1	WL
WLMM067	13-Apr-23	4	WL
WLMM079	13-Apr-23	5	WL
	18-Apr-23	1	WL
WLMM114	13-Apr-23	1	WL

Sighting

Group

Area

#### 6.4.3 Land-based Theodolite Tracking Survey

#### **Survey Effort**

Land-based theodolite tracking surveys were conducted at LKC on 24 April 2023 and at SC on 25 April 2023, with a total of two days of land-based theodolite tracking survey effort accomplished in this reporting period. No CWDs were tracked neither off LKC Station nor SC station 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 D**.

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 7 March 2023 and the next retrieval and re-deployment are scheduled in mid-May 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, one dolphin observation station and teams of at least two dolphin observers were deployed by the contractor for continuous monitoring of the DEZ for seawall construction works in accordance with the DEZ Plan. Trainings for the proposed dolphin observers on the implementation of DEZ monitoring were provided by the ET, with a cumulative total of 704 individuals being trained and the training records kept by the ET. From the contractors' records, no dolphin or other marine mammals were observed within or around the silt curtain during this reporting month. These contractors' records were also audited by the ET during site inspection.

Audits of acoustic decoupling measures for construction vessels were carried out during weekly site inspection and the observations are summarised in **Section 7.1**. Audits of SkyPier high speed ferries route diversion and speed control and construction vessel management are presented in **Section 7.4** 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 C**. 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 B**.

#### 7.2 Landscape and Visual Mitigation Measures

Implementation of applicable landscape and visual mitigation measures (reference to the environmental protection measures CM1 – CM10 in **Appendix B**) 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

contractor's works areas

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.	The implementation of mitigation measures was checked by ET during weekly site inspection and reported by the Contractors during the monthly Environmental Management Meetings. Implementation of the measures	All works contracts
CM2 – Reduction of construction period to practical minimum	CM5, CM6 and CM7 by Contractors was observed.	
CM3 – Phasing of the construction stage to reduce visual impacts during the construction phase.		
CM4 – Construction traffic (land and sea) including construction plants, construction vessels and barges shall be kept to a practical minimum.		
CM5 – Erection of decorative mesh screens or construction hoardings around works areas in visually unobtrusive colours.		
CM6 – Avoidance of excessive height and bulk of site buildings and structures		
CM7 – Control of night-time lighting by hooding all lights and through minimisation of night working periods		
CM8 – All existing trees shall be carefully protected during construction. Detailed Tree Protection Specification shall be provided in the Contract Specification. Under this specification, the Contractor shall be required to submit, for approval, a detailed working method statement for the protection of trees prior to undertaking any works adjacent to all retained trees, including trees in	Tree Protection Specifications were provided in the relevant Contract Specifications respectively for implementation by the Contractors under the Project.  The Contractors' performance on the implementation of the tree maintenance and protection measures were observed and checked by the ET weekly during construction period.	3302, 3508, 3801

#### 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 relevant Contract Specifications respectively for implementation by the Contractors under the Project where trees would unavoidably be affected by the construction works.

3508, 3801

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.

CM10 – Land formation works shall be 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.

### 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)



General view of tree protection zone for retained tree (CM8)



General view of transplanted trees (CM9)

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 remained unchanged (i.e. 47 and 26 respectively) comparing to the previous reporting period.

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

Event Action Level		Action					
	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.				

Event Action Level		Action		
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 non-conformity. 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 nonconformity. 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

Existing				
Contract	Retain (nos.)	Transplan	ted (nos.)	To-be-transplanted (nos.)
		Establishment Period	Maintenance Period	
3302	9	0	0	0
3503	0	0	9	0
3508	35	0	12	0
3602	0	0	0	0
3801	3	0	5	0
Grand Total	47	0	26	0

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

Tree ID	Transplant Date	Management Stage	Management Agency	Remarks	
CT1253	4 May 2018	Long Term Management period Jun 2019 – May 2028	Southern Landside Petrol Filling Station	of the last inspection in 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 wa completed. Next inspection will b conducted in February 2024. Photo	
T836	13 Dec 2019	Long Term Management period Feb 2021 – Jan 2030	AAHK	of the last inspection in February 2023 can be referred to Table 7.7 of	
T838	22 Jan 2020	Long Term Management period Feb 2021 – Jan 2030	AAHK	the Construction 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 be	
T814	20 Dec 2020	Long Term Management period Jan 2022 – Dec 2031	AAHK	<ul> <li>conducted in December 2023.</li> <li>Photos of the last inspection in December 2022 can be referred to</li> </ul>	
T815	15 Dec 2020	Long Term Management period Jan 2022 – Dec 2031	AAHK	<ul> <li>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	AAHK	_	
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	ААНК		
T1493	6 Jul 2021	Long Term Management period Aug 2022 – Jul 2031	Contract 3508	Establishment Period was completed. Next inspection will be conducted in July 2023. Photos of the last inspection in July 2022 can be referred to Table 7.7 of the	
T1494	6 Jul 2021	Long Term Management period Aug 2022 – Jul 2031	Contract 3508		
T1495	10 Jul 2021	Long Term Management period Aug 2022 – Jul 2031	Contract 3508	<ul> <li>Construction Phase Monthly EM&amp;A Report No.79.</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 Aug 2022 – Jul 2031	Contract 3508	-	
T1503	6 Jul 2021	Long Term Management period Aug 2022 – Jul 2031	Contract 3508		
T1504	24 Jun 2021	Long Term Management period	Contract 3508	_	

Tree ID	Transplant Date	Management Stage	Management Agency	Remarks
		Aug 2022 – Jul 2031		
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 has 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. Based on the latest construction information, there is no development programme for these locations at this stage. As such, the status of site re-appraisal/ additional site investigation shall be further updated upon latest development programme is available.

#### 7.4 Audit of SkyPier High Speed Ferries

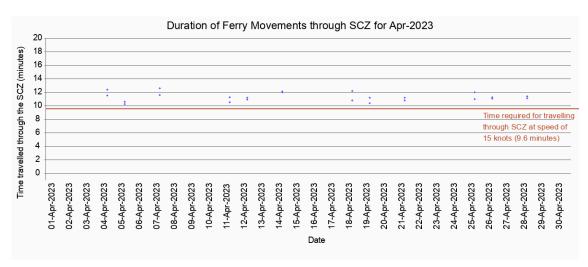
The Marine Travel Routes and Management Plan for High Speed Ferries of SkyPier (the SkyPier Plan) was submitted to the Advisory Council on the Environment for comment and subsequently submitted to and approved by EPD in November 2015 under EP Condition 2.10. The approved SkyPier Plan is available on 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., 26 to 36 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 April 2023 and the data are presented in **Appendix G**. The time spent by the SkyPier HSF travelling through the SCZ in April 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 the SkyPier HSF spent more than 9.6 minutes to travel through the SCZ.

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

Requirements in the SkyPier Plan	1 to 30 April 2023
Total number of ferry movements recorded and audited for HSF to/from Macau	24
Use diverted route and enter / leave SCZ through Gate Access Points	0 deviation
Speed control in speed control zone	The average speed of all HSFs travelling through the SCZ ranged from 11.0 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.
A maximum daily cap of 125 movements for all SkyPier HSFs including those not using diverted route	26 to 36 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:

- Two skipper training sessions were held by contractor's Environmental Officer.
   Competency test was subsequently conducted with the trained skippers by ET. The list of all trained skippers was properly recorded and maintained by ET.
- In this reporting period, 3 skippers were trained by contractor's Environmental Officer. In total, 1886 skippers were trained from August 2016 to April 2023.
- 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 in the works area, and entered 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	- Accepted / approved by EPD		
2.11	Marine Mammal Watching Plan			
2.12	Coral Translocation Plan			
2.13	Fisheries Management Plan			
2.14	Egretry Survey Plan			
2.15	Silt Curtain Deployment Plan			
2.16	Spill Response Plan			
2.17	Detailed Plan on Deep Cement Mixing			
2.18	Landscape & Visual Plan	-		
2.19	Waste Management Plan			
2.20	Supplementary Contamination Assessment Plan			
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:

#### **Reclamation Works:**

#### **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;
- Utilities and backfilling works; and
- Stockpiling.

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

- Enhanced vehicular warning light hardware installation;
- Rectification work for airfield ground lighting system; and
- · Cable containment installation.

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

Equipment installation.

#### **Contract 3307 Fire Training Facility**

Drainage and utilities works.

#### **Contract 3308 Foreign Object Debris Detection System**

Rectification work for handover sensor system.

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

- Architectural, builder's work and finishing works;
- Seawall construction;
- Construction of stormwater drainage; and
- · Construction of walls and slabs.

#### **Third Runway Concourse**

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

- Builder's work for cable conduit; and
- Mechanical Ventilation & Air-Conditioning & Fire Services works.

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

System maintenance.

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

- Structure works:
- Setup of temporary drainage system; and
- Road formation.

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

- Building services and Architectural, builder's work and finishing Works;
- Foundation Works for Concrete Batching Plant; and
- Reinforced concrete works.

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

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

- Bridge demolition, hoarding erection;
- Pier and temporary road construction;
- 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)

Guidebeam installation.

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

- Erection and fixing of power rail; and
- Concrete plinth construction.

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

BHS installation.

#### **Construction Support (Facilities):**

#### **Contract 3721 Construction Support Infrastructure Works**

Provision of backup services;

#### Airport Support Infrastructure:

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

- Dismantling works;
- Duct installation and concreting;
- Drainage construction; and
- Installation of steel decking formworks

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

- Excavation and lateral supports;
- Box culvert construction;
- Tunnel construction;
- Electrical and mechanical works; and
- Architectural, builder's work and finishing works.

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

- Site setup and formation works;
- Bored pile works;
- Excavation and concreting.

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

- Ground Investigation works;
- Construction of temporary working platform.

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

#### **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.

#### 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 seawall construction;
- Implementation of MMWP for silt curtain deployment;
- Sorting, recycling, storage and disposal of general refuse and construction waste;
- Reuse of treated marine sediments from piling and excavation works;
- Management of chemicals and avoidance of oil spillage on-site; and
- Acoustic decoupling measures for equipment on marine vessels.

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

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

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

#### 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 seawall construction, filling and land-based ground improvement work, together with taxiways, concourse and associated works. Land-based works on existing airport island involved mainly airfield works, Terminal 2 expansion works, modification and tunnel work for Automated People Mover (APM) and Baggage Handling System (BHS), and preparation work for utilities, with activities include road and drainage works, cable ducting, demolition, piling, and excavation works.

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

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

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

On the implementation of the SkyPier Plan, the daily movements of all SkyPier HSFs in the reporting period, including those not using the diverted route, were in the range of 26 to 36 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 11.0 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 in the works area, entered no entry zone, and entry from non-designated gates were reviewed by ET. All the concerned captains were reminded by the contractor's 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**

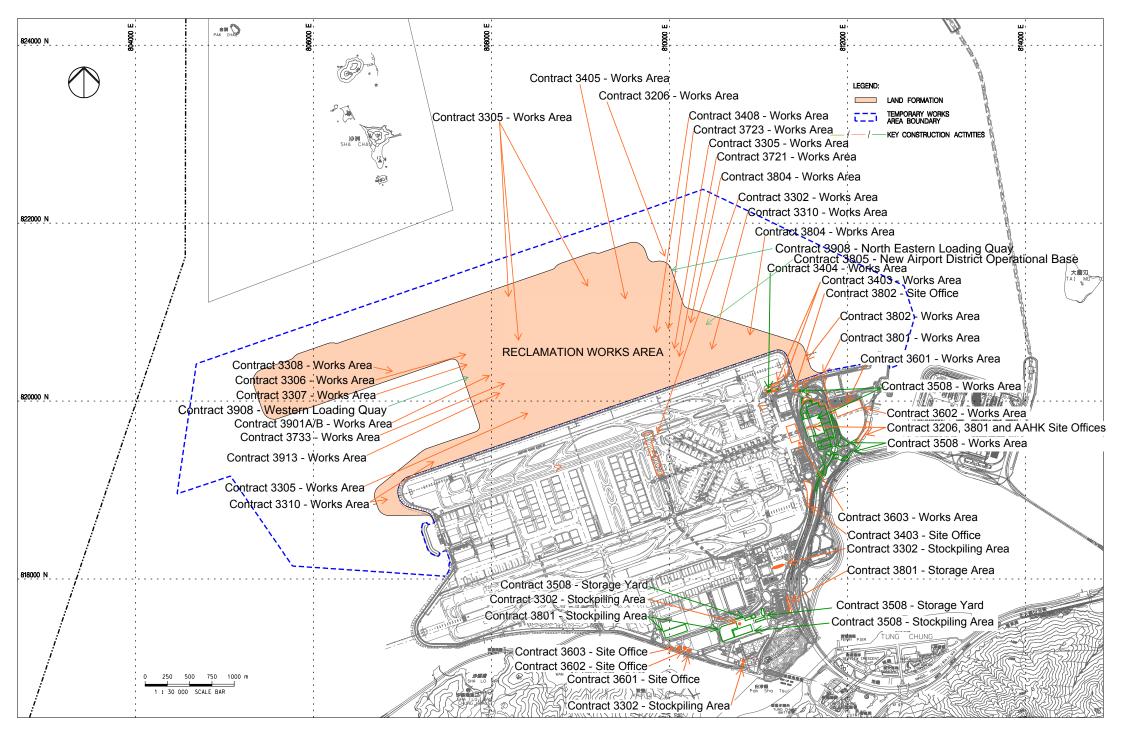
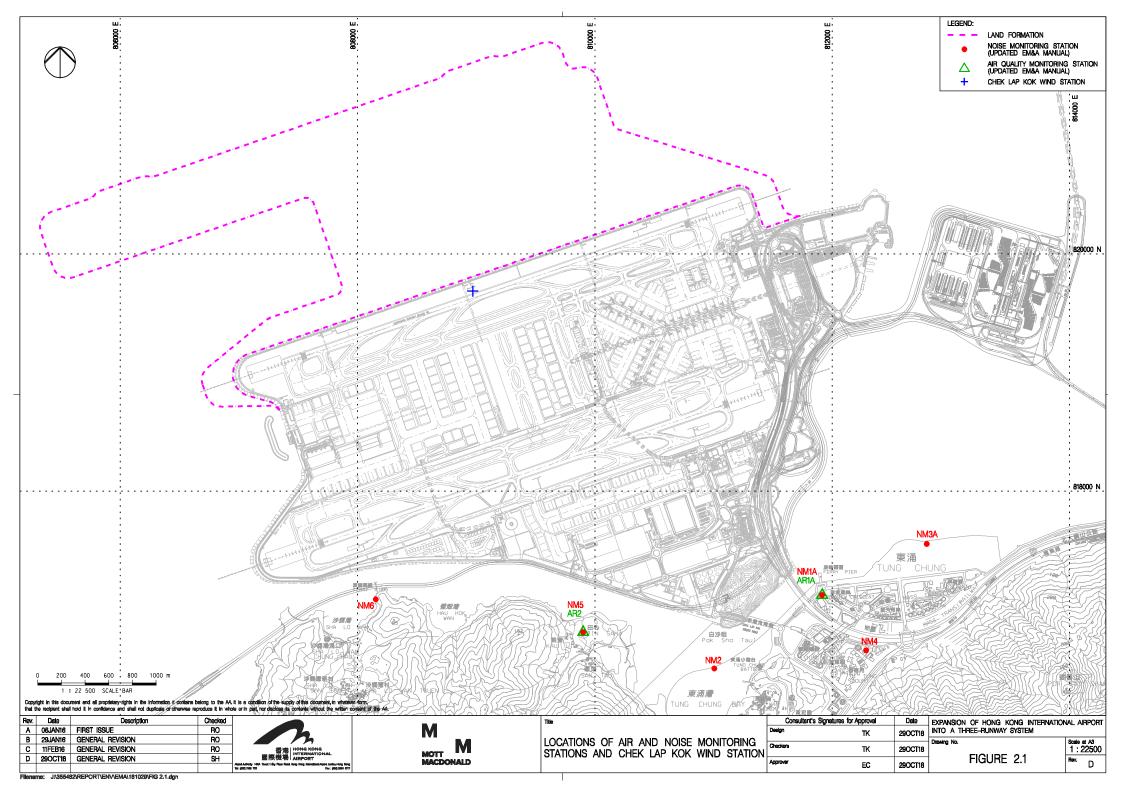
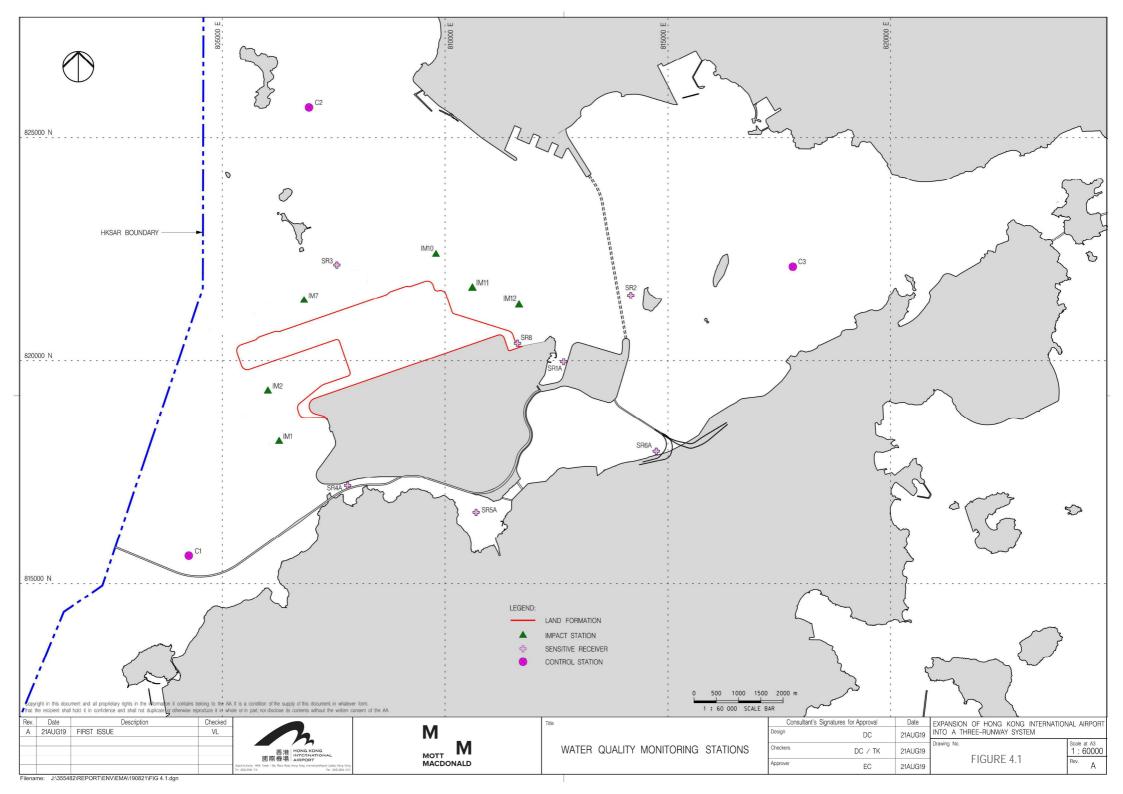
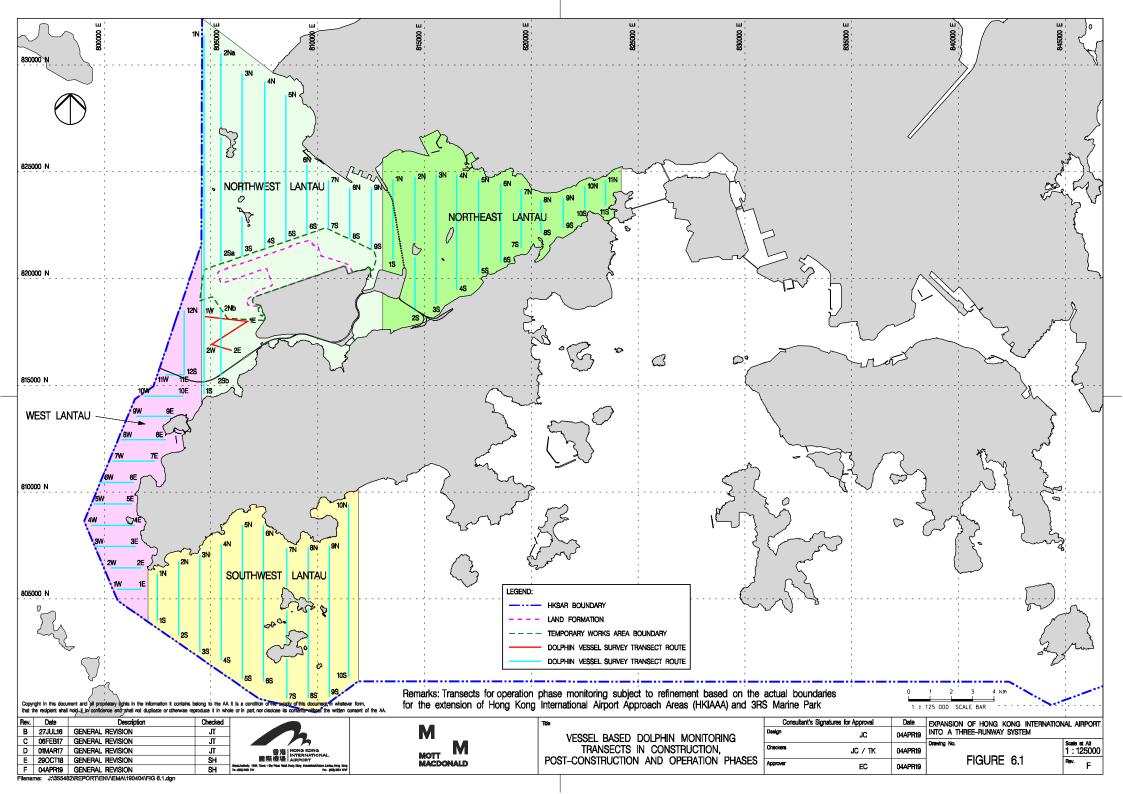
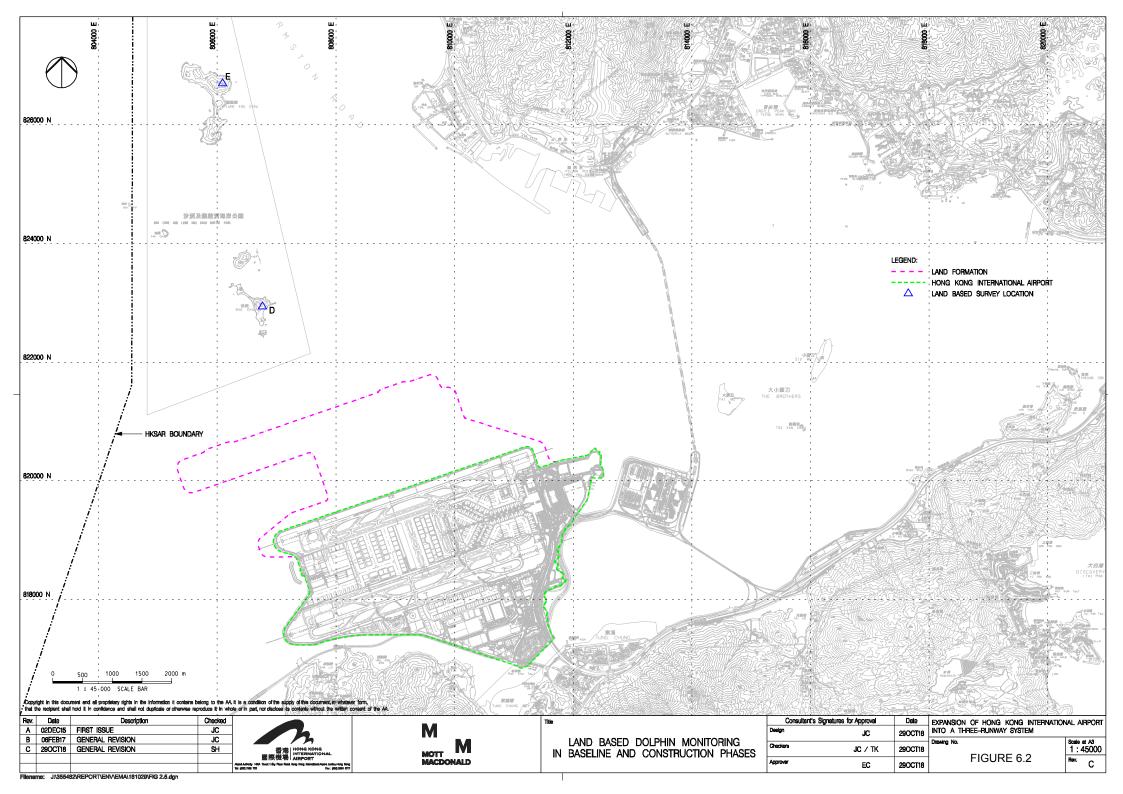


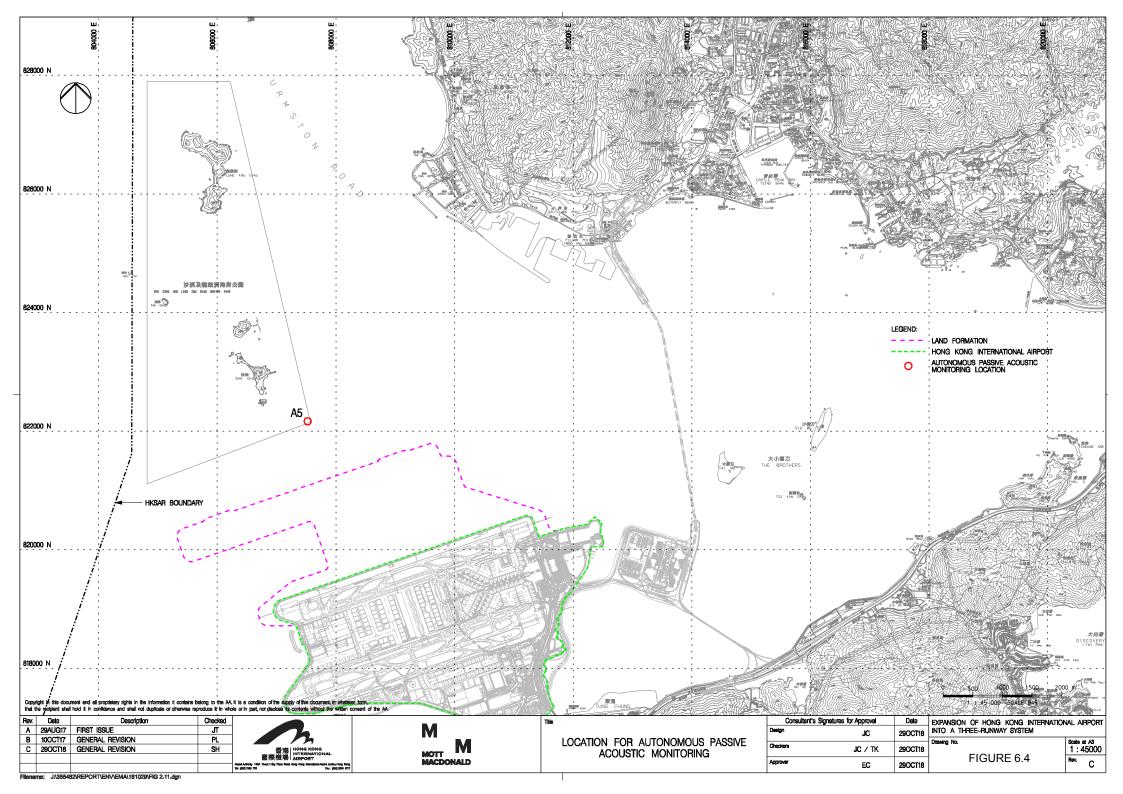
FIGURE 1.1 LOCATIONS OF KEY CONSTRUCTION ACTIVITIES











# **Appendix A.** Contract Description

# **Contract Description**

Contract No.	Contract Title	Contractor	Key Construction Activities
3206	Reclamation Contract	Zhen Hua Engineering Company LtdChina Communications Construction Company LtdCCCC Dredging (Group) Company Ltd. Joint Venture	The works covered by the Contract 3206 comprise the formation of approximately 650 hectares of land north of the existing airport island for the project, the major construction activities including without limitation the following  • Geotechnical and ground improvement works;  • Seawall construction;  • Marine and land filling works; and  • Civil works.
3302	Eastern Vehicular Tunnel Advance Works	China Road and Bridge Corporation	The works covered by the Contract 3302 comprise the design and construction of the first section of the new Eastern Vehicular Tunnel and a Road Tunnel Plant Building. The major construction activities include without limitation the following:  • Foundation and structural works;  • Cast-in / Underground electrical & mechanical works and utility services; and  • All associated testing and commissioning works.
3305	Airfield Ground Lighting System	ADB Safegate Hong Kong Limited	The works covered by the Contract 3305 comprise the design, manufacture, installation and handover of the Airfield Ground Lighting (AGL) System. The major construction activities include without limitation the following:  • Light fittings works;  • Power Supply System installation;  • Fibre optic cables and data cables supply and connection;  • Set up Control and Communication system;  • All associated testing and commissioning works.
3306	Observation Facility Control Systems Supporting Interim 2RS and 3RS	Chinney Alliance Engineering Limited	The works covered by the Contract 3306 comprise the design, procurement, manufacture, supply, installation, testing and commissioning of the Observation Facility Control Systems and Airfield Network for the interim Two-Runway System and Three-Runway System respectively. The major construction activities include without limitation the following:  • Power Supply System installation;

Contract No.	Contract Title	Contractor	Key Construction Activities
			<ul> <li>Fibre optic cables and data cables supply and connection;</li> <li>Set up Control and Communication system;</li> <li>Minor building work and accessories; and</li> <li>All associated testing and commissioning works.</li> </ul>
3307	Fire Training Facility	Paul Y. Construction Company Limited	The works covered by the Contract 3307 comprise the construction of a Fire Training Facility on the new reclamation area to replace the existing facility at the Airport Island. The major construction activities include without limitation the following:  • Building services works;  • Civil works; and  • All associated testing and temporary works.
3308	Foreign Object Debris Detection System	DAS Aviation Services Group	The works cover by the Contract 3308 comprise the entire expanded Foreign Object Debris (FOD) detection system required for the operation of new Three-Runway System at Hong Kong International Airport. The major construction activities include without limitation the following:  • Excavation works;  • Construction of FOD sensor towers;  • Set up FOD detection system;  • Civil and structural works; and  • All associated electrical and mechanical works.
3310	North Runway Modification Works	China State Construction Engineering (Hong Kong) Ltd Fujita Corporation Joint Venture	The works cover by the Contract 3310 comprise the modification of north runway and the connections of taxiways to the modified north runway on existing airport island. The major construction activities include without limitation the following:  • Modification works for existing north runway;  • Connections works for new taxiways;  • Construction of ancillary buildings/ facilities;  • Building services and airport systems;  • Infrastructure Works;  • Underground utilities and services; and  • All associated asphalt pavement work and earthwork.

Contract No.	Contract Title	Contractor	Key Construction Activities
3402	New Integrated Airport Centers Enabling Works	Wing Hing Construction Co., Ltd.	The works covered by the Contract 3402 comprise the enabling works for the new Integrated Airport Centers. The major construction activities include without limitation the following:  • Site clearance and demolition;  • Building services works;  • Utilities diversion and installation works;  • Roadworks including associated facilities; and  • All associated testing and commissioning works.
3403	New Integrated Airport Centres – Building and Civil Works	Sun Fook Kong Construction Limited	The works covered by the Contract 3403 comprise the construction of a new Integrated Airport Centre (IAC) and a number of ancillary facilities and Additions and Alteration (A&A) works for converting the existing IAC into a back-up IAC, including without limitation the following:  • Site clearance and demolition;  • Building structure and envelope;  • Building Services and Airport Systems; and  • Utilities division and installations.
3404	Integrated Airport Control System	Shun Hing Systems Integration Co., Ltd.	The works covered by the Contract 3404 comprise the design, supply, manufacture, delivery, installation, testing and commissioning of Integrated Airport Control System and conversion of the existing Integrated Airport Centre (IAC) into a Back-up IAC for the operation of interim Two-Runway System and Three-Runway System. The major construction activities include without limitation the following: <ul> <li>Cabling works</li> <li>System configuration and programming works;</li> <li>Set up Control and Communication system;</li> <li>Decommissioning works; and</li> <li>All associated testing and commissioning works.</li> </ul>

Contract No.	Contract Title	Contractor	Key Construction Activities
3405	Third Runway Concourse Foundation and Substructure Works	China Road and Bridge Corporation - Bachy Soletanche Group Limited - LT Sambo Co., Ltd. Joint Venture	The works covered by the Contract 3405 comprise without limitation the following:  • Piled foundation works;  • Basement and tunnel structure works;  • Associated internal reinforced concrete structures;  • Backfilling and compaction of works area; and  • Associated testing and temporary works.
3408	Third Runway Concourse and Apron Works	Beijing Urban Construction Group Company Limited and Chevalier (Construction) Company Limited Joint Venture	The works covered by the Contract 3408 comprise the design and construction of the Third Runway Concourse (TRC), the TRC Apron, two cross-field taxiways, Ancillary Buildings, specific section of the Eastern Vehicular Tunnel (EVT), and the associated infrastructure, testing, and commissioning works.
3508	Terminal 2 Expansion Works	Gammon Engineering and Construction Co., Ltd	The works covered by the Contract 3508 comprise the construction of T2, North Annex Building (NAB) and South Annex Building (SAB) with interconnecting bridges, landside transport infrastructure including viaducts and at grade roads, underground utility services, one sewage pumping station with the associated electrical building, footbridges, external works and modification works to existing facilities. The major construction activities include without limitation the following:  • Superstructure, interior landscaping, building services and airport system of T2, NAB, SAB and associated footbridges;  • Additions and Alteration (A&A) works of the existing Airport World Trade Centre (AWTC);  • Modification of the existing APM and BHS tunnels;  • External works and road networks around T2; and  • Utilities.
3601	New Automated People Mover System (TRC Line)	CRRC Puzhen Bombardier Transportation Systems Limited and CRRC Nanjing Puzhen Co., Ltd. Joint Venture	The works covered by the Contract 3601 comprise the initial phase of the Automated People Mover (APM) system connecting the Third Runway Concourse (TRC) and the APM Interchange Station in the modified T2, and extension of the new APM system into the new APM Depot east of T2. The major construction activities include without limitation the following:  • New 3-guideway APM system between TRC and T2;  • Extension of the TRC Line into the new APM Depot;

Contract No.	Contract Title	Contractor	Key Construction Activities
			<ul> <li>APM associated sub-systems (communications, signalling, etc.)</li> <li>Associated civil works; and</li> <li>All associated testing, commissioning works.</li> </ul>
3602	Existing APM System Modification Works	Niigata Transys Co., Ltd.	The works covered by the Contract 3602 comprise the detailed design, supply, manufacture, fabrication, implementation, testing and commissioning of the following modification works of the existing APM systems:  • Modification of existing APM depot and APM cars;  • Modification of existing T1 & T2 tunnels; and  • Preparation of new APM depot.
3603	3RS Baggage Handling System	Vanderlande Industries Hong Kong Limited and Shun Hing Systems Integration Company Limited	The works covered by the Contract 3603 comprise the design, supply, manufacture, delivery, installation, testing and commissioning of the high-speed baggage handling system.
3723	Eastern Support Area – Construction Support Facilities	Tapbo Construction Company Limited and Konwo Modular House Ltd. Joint Venture	The works covered by the Contract 3723 comprise the design and construction of support facilities, including site office, sewage treatment facility, canteen, and centralised power supply building. The major construction activities include without limitation the following: <ul> <li>Construction of support facilities;</li> <li>Foundation, structural and superstructure works;</li> <li>Sewage pipe network and connection works; and</li> <li>Building services works.</li> </ul>
3728	Minor Site Works	Shun Yuen Construction Company Limited	The works to be executed by the Contract 3728 comprise minor works within the Airside and Landside areas of the existing airport island to support the Project.
3733	Emergency Repair Service	Wing Hing Construction Co., Ltd.	The works to be executed by the Contract 3733 comprise the provision of emergency repair service for Three Runway System (3RS) Project construction. The major construction activities include without limitation the following: <ul> <li>Construction of support facilities;</li> <li>Building services works;</li> <li>Security fencing and hoarding; and</li> <li>Ground pavement works.</li> </ul>

Contract No.	Contract Title	Contractor	Key Construction Activities	
3801	APM and BHS Tunnels on Existing Airport Island	China State Construction Engineering (Hong Kong) Limited	The works covered by the Contract 3801 comprise the construction of the APM and Baggage Handling System (BHS) tunnels on existing airport island. The major construction activities include without limitation the following: <ul> <li>Construction of APM and BHS tunnels;</li> <li>Construction of ventilation building and associated infrastructure; and</li> <li>Construction, testing and commissioning of sewerage pumping station; and</li> <li>Civil and structural engineering works.</li> </ul>	
3802	APM and BHS Tunnels and Related Works	Gammon Construction Limited	<ul> <li>Civil and structural engineering works.</li> <li>The works covered by the Contract 3802 comprise the construction of the APM and BHS tunnels on existing airport island. The major construction activities include without limitation the following:         <ul> <li>Construction of APM/ BHS Tunnels;</li> <li>Construction of ancillary buildings/ facilities;</li> <li>Building services and airport systems;</li> <li>Infrastructure Works;</li> <li>Underground utilities and services; and</li> <li>All associated testing and commissioning works.</li> </ul> </li> </ul>	
3804	<ul> <li>All associated testing and commissioning works.</li> <li>East and Landside Fire Stations</li> <li>Beijing Urban Construction Group Construction Limited - Beijing Urban Construction International Construction Limited - Kin Shing (Leung's)</li> <li>All associated testing and commissioning works.</li> <li>The works covered by the Contract 3804 comprise the construct East Fire Station (EFS) and Landside Fire Station (LFS), which storey and four storey facilities for supporting firefighting and emprise rescue services at the airport. The major construction without limitation the following:         <ul> <li>Construction of EFS and LFS;</li> <li>Building services and airport systems;</li> </ul> </li> </ul>		The works covered by the Contract 3804 comprise the construction of the East Fire Station (EFS) and Landside Fire Station (LFS), which are three-storey and four storey facilities for supporting firefighting and emergency rescue services at the airport. The major construction activities include without limitation the following: <ul> <li>Construction of EFS and LFS;</li> <li>Building services and airport systems;</li> <li>Handling, treatment and reuse of the marine deposit, contaminated</li> </ul>	
3805	New Airport District Police Operational Base	Chinney Construction Co., Ltd.	The works covered by the Contract 3805 comprise the construction of the New Airport District Police Operational Base (NPOB), which is a seven-storey high building for provision of operational facilities such as a forward holding area and dog kennel for counter terrorism related units, training facilities such as a firing range and a tactics training centre and offices, facilities for district	

Contract No.	Contract Title	Contractor	Key Construction Activities
			operation and ancillary facilities. The major construction activities include without limitation the following:  • Piled foundation works;  • Handling, treatment and reuse of the marine deposit, contaminated mud and treated soil;  • Associated testing and commissioning works; and  • Associated temporary works.
3901A	Concrete Batching Facility	K. Wah Concrete Company Limited	The works covered by the Contract 3901A comprise the establishment, operation and maintenance of a concrete batching facility at the Project Site and the supply of concrete products. The major construction activities include without limitation the following: <ul> <li>Supply of all equipment for the installation of the Facility to the Site; and</li> <li>Supply of all raw materials required for the production of ready mixed</li> </ul>
3901B	Concrete Batching Facility	Gammon Construction Limited	concrete products and the continual operation of the Facility.  The works covered by the Contract 3901B comprise the establishment, operation and maintenance of a concrete batching facility at the Project Site and the supply of concrete products. The major construction activities include without limitation the following:  Supply of all equipment for the installation of Facility to the Site; and Supply of all raw materials required for the production of ready mixed concrete products and the continual operation of the Facility.
3913	Asphalt Batching Plant	Sinohydro Corporation Limited, Powerchina Airport Construction Company Limited, and Rock-One Engineering Company Limited Joint Venture	The works covered the Contract 3913 comprise the takeover of existing asphalt batching facilities at the Western Support Area, the provision of all other associated facilities, plant and equipment such as bitumen and polymer modified binder blending units (collectively called the Facility) and the operation and maintenance of the Facility. The major construction activities include without limitation the following: <ul> <li>Supply of licenced products required for asphalt pavement work;</li> <li>Decommissioning and returning works; and</li> <li>All associated testing and commissioning works.</li> </ul>

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



# Environmental Mitigation Implementation Schedule (EMIS) for Construction Phase

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			Air Quality Impact – Construction Phase		
5.2.6.2	2.1	-	Dust Control Measures ■ Water spraying for 12 times a day or once every two hours for 24-hour working at all active works area.	Within construction site / Duration of the construction phase	I
5.2.6.3	2.1	-	<ul> <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	1
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	1



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures	Mitigation Measures Implemented?^
				Timing of completion of measures	
			Loading, Unloading or Transfer of Dusty Materials	Within construction	1
			• All dusty materials should be sprayed with water immediately prior to any loading or transfer operation so as to keep the dusty material wet.	site / Duration of the construction phase	
			Debris Handling	Within construction	1
			<ul> <li>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</li> </ul>	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	
			<ul> <li>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;</li> </ul>		
			<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	Mitigation Measures
				Timing of completion of 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>		
			• Aggregates with a nominal size greater than 5 mm should preferably be stored in a totally enclosed structure. If open stockpiling is used, the stockpile shall be enclosed on three sides with the enclosure wall sufficiently higher than the top of the stockpile to prevent wind whipping; and		
			■ The opening between the storage bin and weighing scale of the materials shall be fully enclosed.		
			Loading of materials for batching	Within Concrete	1
			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	1
			<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	
			<ul> <li>All access and route roads within the premises shall be paved and adequately wetted.</li> </ul>	construction phase	
			Housekeeping	Within Concrete	1
			• 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?^
			■ 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
			• 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;	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;		
			<ul> <li>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;</li> </ul>		
			<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;	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
				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
			<ul> <li>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;</li> </ul>	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 Batching Plant / Duration of the	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>		
			<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
			<ul> <li>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.</li> </ul>	Batching Plant / Duration of the construction phase	
			Housekeeping	Within Concrete	I
			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 stage
			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;		
			• 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;		
			<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
			<ul> <li>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.</li> </ul>	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 Timing of completion of measures	Mitigation 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>	or modelico	
			<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		
			<ul> <li>Scattered piles gathered beneath belt conveyors, inside and around enclosures shall be cleared regularly.</li> </ul>		
			Rock drilling equipment  Appropriate dust control equipment such as a dust extraction and collection system shall be used during rock drilling activities.	Within Concrete Batching Plant / Duration of the construction phase	N/A as there was no rock crushing plant at this stage
			Hazard to Human Life – Construction Phase		
Table 6.40	3.2	-	■ Precautionary measures should be established to request barges to move away during typhoons.	Construction Site / Construction Period	I
Table 6.40	3.2	-	• An appropriate marine traffic management system should be established to minimize risk of ship collision.	Construction Site / Construction Period	I
Table 6.40	3.2	-	<ul> <li>Location of all existing hydrant networks should be clearly identified prior to any construction works.</li> </ul>	Construction Site / Construction Period	I
			Noise Impact – Construction Phase		
7.5.6	4.3	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>		
			■ mobile plant should be sited as far away from NSRs as possible; and		
			<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> <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</li> </ul>	Within construction site / Duration of the construction phase	l
			within and adjacent to the works site; and  For ground improvement activities including DCM, the wash water from cleaning of the drilling shaft should be appropriately treated before discharge. The Contractor should ensure the wastewater meets the WPCO/TM requirements before discharge. No direct discharge of contaminated water is permitted.		



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> </ul>	Within construction site / Duration of the construction phase	I – For marine filling
			<ul> <li>A maximum of 10 % fines content to be adopted for sand blanket and 20 % fines content for marine filling below +2.5 mPD prior to substantial completion of seawall (until end of Year 2017) shall be specified in the works contract document;</li> </ul>		C – Completed in Nov 2020 for sand blanket
			<ul> <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 in May 2018
			<ul> <li>Closed grab dredger shall be used to excavate marine sediment;</li> </ul>		I
			<ul> <li>Silt curtains surrounding the closed grab dredger shall be deployed in accordance with the Silt Curtain Deployment Plan; and</li> </ul>		(The arrangement of silt curtain has been modified. The details can be referred to Silt Curtain Deployment Plan)
			■ The Silt Curtain Deployment Plan shall be implemented.	•	1
			Specific Measures to be Applied to Land Formation Activities prior to Commencement of Marine Filling Works  Double layer 'Type III' silt curtains to be applied around the active eastern works areas prior to commencement of sand blanket laying activities. The silt curtains shall be configured to minimise SS release during ebb tides. A silt curtain efficiency test shall be conducted to validate the performance of the silt curtains;	Within construction site / Duration of the construction phase	N/A (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 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 in Dec 2021 for C8
					*(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.	•	1



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures	Mitigation Measures
				Timing of completion of measures	Implemented?^
			Specific Measures to be Applied to Land Formation Activities during Marine Filling Works	Within construction	1
			<ul> <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 to minimise SS release during ebb tides;</li> </ul>	site / Duration of the construction phase	*(The arrangement of silt curtain has been modified. The details can be referred to Silt Curtain Deployment Plan)
			Double layer silt curtains to be applied at the south-western opening prior to commencement of marine		N/A
			filling activities;		(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)
			■ The silt curtains and silt screens should be regularly checked and maintained.		1
			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 diversion will no
			Silt curtains surrounding the closed grab dredger to be deployed as a precautionary measure.		longer be conducted anymore
8.8.1.4	5.1	-	Modification of the Existing Seawall	At the existing	1
			• 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.	northern seawall / Duration of the construction phase	



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
8.8.1.5	5.1	-	Construction of New Stormwater Outfalls and Modifications to Existing Outfalls  During operation of the temporary drainage channel, runoff control measures such as bunding or silt fence shall be provided on both sides of the channel to prevent accumulation and release of SS via the temporary channel. Measures should also be taken to minimise the ingress of site drainage into the culvert excavations.	Within construction site / Duration of the construction phase	I
8.8.1.6 5.7 8.8.1.7	5.1	2.27	Piling Activities for Construction of New Runway Approach Lights and HKIAAA Marker Beacons Silt curtains shall be deployed around the piling activities to completely enclose the piling works and care should be taken to avoid spillage of excavated materials into the surrounding marine environment.	Within construction site / Duration of the construction phase	C – For approach lights  N/A for marker beacons as HKIAAA Marker Beacons would be replaced by buoys
			<ul> <li>For construction of the eastern approach lights at the CMPs</li> <li>Ground improvement via DCM using a close-spaced layout shall be completed prior to commencement of piling works;</li> <li>Steel casings shall be installed to enclose the excavation area prior to commencement of excavation;</li> <li>The excavated materials shall be removed using a closed grab within the steel casings;</li> <li>No discharge of the cement mixed materials into the marine environment will be allowed; and</li> <li>Excavated materials shall be treated and reused on-site.</li> </ul>		C – Completed in Oct 2021
8.8.1.8	5.1	-	Construction of Site Runoff and Drainage  The site practices outlined in ProPECC Note PN 1/94 should be followed as far as practicable in order to minimise surface runoff and the chance of erosion. The following measures are recommended:  Install perimeter cut-off drains to direct off-site water around the site and implement internal drainage, erosion and sedimentation control facilities. Channels, earth bunds or 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 around legated on the oxisting Airport island) or as according to the powelland is completed (for works around the oxisting Airport island) or as according to the powelland is completed (for works around the oxisting Airport island) or as according to the powelland is completed.	Within construction site / Duration of the construction phase	I
			areas located on the existing Airport island) or as soon as the new land is completed (for works areas located on the new landform);  Sand/silt removal facilities such as sand/silt traps and sediment basins should be provided to remove sand/silt particles from runoff to meet the requirements of the TM-DSS standards under the WPCO. The design of efficient silt removal facilities should make reference to the guidelines in Appendix A1 of ProPECC Note PN 1/94. Sizes may vary depending upon the flow rate. The detailed design of the sand/silt traps should be undertaken by the Contractors prior to the commencement of construction;		I



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			• All drainage facilities and erosion and sediment control structures should be regularly inspected and maintained to ensure proper and efficient operation at all times and particularly during rainstorms. Deposited silt and grit should be regularly removed, at the onset of and after each rainstorm to ensure that these facilities are functioning properly;		I
			• Measures should be taken to minimize the ingress of site drainage into excavations. If excavation of trenches in wet periods is necessary, they should be dug and backfilled in short sections wherever practicable. Water pumped out from foundation excavations should be discharged into storm drains via silt removal facilities;	•	I
			• In the event that contaminated groundwater is identified at excavation areas, this should be treated on- site using a suitable wastewater treatment process. The effluent should be treated according to the requirements of the TM-DSS standards under the WPCO prior to discharge to foul sewers or collected for proper disposal off-site. No direct discharge of contaminated groundwater is permitted; and		I
			• 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>		ſ
			<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>		T
			• Precautionary measures should be taken at any time of the year when rainstorms are likely. Actions to be taken when a rainstorm is imminent or forecasted are summarized in Appendix A2 of ProPECC Note PN 1/94. This includes actions to be taken during and/or after rainstorms. Particular attention should be paid to the control of silty surface runoff during storm events.		I
8.8.1.9	5.1	-	Sewage Effluent from Construction Workforce  Temporary sanitary facilities, such as portable chemical toilets, should be employed on-site where	Within construction site / During	I
			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.	construction phase	



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion	Mitigation Measures Implemented?^
				of measures	
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	
			<ul> <li>No bulk storage of chemicals shall be permitted; and</li> </ul>		
			• 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	
			• 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.		
			Waste Management Implication – Construction Phase		
10.5.1.1	7.1	-	Opportunities to minimise waste generation and maximise the reuse of waste materials generated by the project have been incorporated where possible into the planning, design and construction stages, and the following measures have been recommended:		
			■ The relevant construction methods (particularly for the tunnel works) and construction programme have been carefully planned and developed to minimise the extent of excavation and to maximise the on-site reuse of inert C&D materials generated by the project as far as practicable. Temporary stockpiling areas will also be provided to facilitate on-site reuse of inert C&D materials;	Project Site Area / During design and construction phase	I
			<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



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			<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>	•	1
			• 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 /	I
			<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	
			■ 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	



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures	Mitigation Measures
				Timing of completion of measures	Implemented?^
			<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>		
			Plan and stock construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste.		
10.5.1.5	7.1		Inert and non-inert C&D materials should be handled and stored separately to avoid mixing the two types of materials.	Project Site Area / Construction Phase	1
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	1
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	1
			<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>		I
			• Good housekeeping should be maintained at all times at the sediment treatment facility and storage area;		I
			<ul> <li>Treated and untreated sediment should be clearly separated and stored separately; and</li> </ul>		1
			<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



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
10.5.1.18	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>		unymore
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> </ul>		
			<ul> <li>Incompatible chemicals should be stored separately;</li> </ul>		
			<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>		
			<ul> <li>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.</li> </ul>		
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	1
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



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures	Mitigation Measures
				Timing of completion of measures	Implemented?^
			<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>	_	l *(CAR for golf course and Terminal 2 emergency power supply system nos.1, 2, 3, 4 and 5 were submitted to EPD)
			<ul> <li>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.</li> </ul>		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
			<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>		was found.
			<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>		



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures	Mitigation Measures
				Timing of completion of measures	Implemented?^
			Terrestrial Ecological – Construction Phase		
12.10.1.1	9.2	2.14	Pre-construction Egretry Survey ■ Conduct ecological survey for Sha Chau egretry to update the latest boundary of the egretry.	Breeding season (April - July) prior to commencement of HDD drilling works at HKIA	C – Completed in Jan 2019
12.7.2.3 and 12.7.2.6	9.1	2.30	Avoidance and Minimisation of Direct Impact to Egretry  The daylighting location will avoid direct encroachment to the Sheung Sha Chau egretry. The daylighting location and mooring of flat top barge, if required, will be kept away from the egretry;	During construction phase at Sheung Sha Chau Island	C – Completed in Jan 2019
			<ul> <li>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</li> </ul>		
			The containment pit at the daylighting location shall be covered or camouflaged.		
12.7.2.5	9.1	2.30	<ul> <li>Preservation of Nesting Vegetation</li> <li>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.</li> </ul>	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



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^	
13.11.1.7 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>	_	1	
			<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 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>construction methods, deployment of silt curtain and</li> <li>Alternative construction methods including use of</li> </ul>		<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	I
			<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>		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	
			<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 the construction phase	I	



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures	Mitigation Measures
				Timing of completion of measures	Implemented?^
			<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>		
			<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
13.11.1.3 to 13.11.1.6	-	-	<ul> <li>Minimisation of Land Formation Area</li> <li>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.</li> </ul>	Land formation footprint / during detailed design phase to completion of construction	I
13.11.5.4	10.3.1	_	SkyPier High Speed Ferries' Speed Restrictions and Route Diversions	Area between the	I
to 13.11.5.13			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	footprint and SCLKC Marine Park during construction phase	
			■ A maximum of 10 knots will be enforced through the designated SCLKC Marine Park area at all times.		
			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	Area between the footprint and SCLKC Marine Park during	1
			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.	construction phase	C – Completed ii Sep 2016
13.11.5.14 to 13.11.5.18	10.3.1	2.31	<ul> <li>Dolphin Exclusion Zone</li> <li>Establishment of a 24 hr Dolphin Exclusion Zone (DEZ) with a 250 m radius around the land formation works areas;</li> </ul>	Marine waters around land formation works area during construction phase	I



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>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	Around coastal works	1
			<ul> <li>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</li> </ul>	area during construction phase	
			<ul> <li>Specific acoustic decoupling measures shall be specified during the detailed design of the project for use during the land formation works.</li> </ul>		
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	1
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	1
14.9.1.5			<ul> <li>Minimise the overall size of the land formation needed for the additional facilities to minimise the overall loss of habitat for fisheries resources.</li> </ul>	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



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			<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
			<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>		
			<ul> <li>Fines for infractions should be implemented; and</li> </ul>		
			<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>	the construction phase	
			<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	I
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



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion	Mitigation Measures Implemented?^
				of measures	
			<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		
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;	1
				Upon handover and completion of works.	
Table 15.6	12.3	-	CM2 - Reduction of construction period to practical minimum.	All works areas for duration of works;	I
				Upon handover and completion of works.	
Table 15.6	12.3	-	CM3 - Phasing of the construction stage to reduce visual impacts during the construction phase.	All works areas for duration of works;	1
				Upon handover and completion of works.	
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.	All works areas for duration of works;	1
				Upon handover and completion of works.	
Table 15.6	12.3	-	CM5 - Erection of decorative mesh screens or construction hoardings around works areas in visually unobtrusive colours.	All works areas for duration of works;	I
				Upon handover and completion of works. – may be disassembled in phases.	



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	-	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	I	
				completion of works.		
Table 15.6	12.3	-	<b>CM7</b> - Control of night-time lighting by hooding all lights and through minimisation of night working periods.	All works areas for duration of works;	1	
				Upon handover and completion of works. – may be disassembled in phases.		
Table 15.6	12.3	2.3 -	Specification shall be provided in the Contract Specification. Under this specification, the Contractor shall be required to submit, for approval, a detailed working method statement for the protection of trees prior to	All existing trees to be retained;	1	
				Upon handover and completion of works.		
Table 15.6	12.3	-	<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	
	n		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	-	<ul> <li>CM10 - Land formation works shall be followed with advanced hydroseeding around taxiways and runways as soon as practical.</li> </ul>	All affected existing grass areas around	To be implemented	
				runways and verges/Duration of works;	*(The advanced hydroseeding works around taxiways and	
				Upon handover and completion of works.	runways were partially completed at this stage and would resume in next phase	
			Cultural Heritage Impact – Construction Phase			
			Not applicable to the construction stage of this project.			
			Health Impact – Aircraft Emissions			



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			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. " ^ " Checked by ET through site inspection and record provided by the Contractor.

## **Appendix C.** Monitoring Schedule

## Monitoring Schedule of This Reporting Period

## Apr-23

			<u> </u>				
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	
						1	
						AR1A, AR2	
						WQ General & Regular DCM	
							11:24
	_	1	_				15:58
2	3	4	5	6	7	8	
	Site Inspection	Site Inspection		Site Inspection			
				AR1A, AR2			
				NM1A, NM4, NM5, NM6			
		WQ General & Regular DCM		WQ General & Regular DCM		WQ General & Regular DCM	
		mid-ebb: 12:27 mid-flood: 6:40	7	mid-ebb: 13:18 mid-flood: 7:18			14:20 8:01
9	10	11	12	13	14	15	3.01
•	l	Site Inspection	Site Inspection	Site Inspection	Site Inspection	10	
		· ·	CWD Survey (Vessel)	CWD Survey (Vessel)	CWD Survey (Vessel)		
		CWD Survey (Vessel)	CWD Survey (Vesser)	CWD Survey (Vesser)	CWD Survey (Vesser)		
			AR1A, AR2				
			NM1A, NM5		NM4, NM6		
		WO Comment & Brandon BOM		WO Comment & Downton BOM		WO Comment & Brander BOM	
		WQ General & Regular DCM mid-ebb: 16:29	5	WQ General & Regular DCM mid-ebb: 18:34		WQ General & Regular DCM mid-ebb: 10	10:05
		mid-flood: 9:2°	1	mid-flood: 5:52			14:33
16	17	18	19	20	21	22	
	Site Inspection	Site Inspection		Site Inspection	Site Inspection		
		CWD Survey (Vessel)	CWD Survey (Vessel)	CWD Survey (Vessel)	CWD Survey (Vessel)		
		AR1A, AR2 NM1A, NM5					
		NMTA, NM5			NM4, NM6 <sup>[1]</sup>		
		WQ General & Regular DCM		WQ General & Regular DCM		WQ General & Regular DCM	
		mid-ebb: 12:12	2	mid-ebb: 13:17			14:26
	0.4	mid-flood: 6:14		mid-flood: 7:01	00	mid-flood:	7:47
23	24	25	26	27	28	29	
	Site Inspection CWD Survey (Land-based)	Site Inspection CWD Survey (Land-based)		Site Inspection	Site Inspection		
	CWD Survey (Land-based)	CWD Survey (Land-based)					
	AR1A, AR2						
	NM1A, NM5			NM4, NM6		AR1A, AR2	
		WQ General & Regular DCM		WQ General & Regular DCM		WQ General & Regular DCM	
		mid-ebb: 16:24	4	mid-ebb: 18:06			20:45
		mid-flood: 8:56		mid-flood: 5:32			8:17
30		Notes:					
		CWD - Chinese White Dolphin	NM1A/AR1A - Man Tung Road Park				
		Alaman Pharmack Nation Manufacture 2011	NM1A/AR1A - Man Tung Road Park NM4 - Ching Chung Hau Po Woon Prima	ry School			
		Air quality and Noise Monitoring Station	NM5/AR2 - Village House, Tin Sum				
		WO WAS ONE	NM6 - House No. 1, Sha Lo Wan				
		WQ - Water Quality [1] Due to internal resources mobilization, the	e monitoring session (NM4 and NM6) was n	escheduled from 20 April 2023 to 21 April 2023.			
		I - 1 = 13 Internal recourses medilization, the	g 00001011 (11111 1 4114 1 11110) W40 1				

## Tentative Monitoring Schedule of Next Reporting Period

May-23

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1	2	3	4	5	6
		Site Inspection	Site Inspection	Site Inspection	Site Inspection	
					AR1A, AR2	
				NM4, NM6	NM1A, NM5	
				CWD Survey (Vessel)		
		WQ General & Regular DCM mid-ebb: 11:26		WQ General & Regular DCM mid-ebb: 12:20		WQ General & Regular DCM mid-ebb: 13:24
		mid-flood: 5:2'	1	mid-flood: 12:20	3	mid-flood: 13:24
7	8	9	10	11	12	13
	Site Inspection	Site Inspection		Site Inspection	Site Inspection	
				AR1A, AR2 NM1A, NM5	NM4, NM6	
				·	1404, 1400	
	CWD Survey (Land-based)	CWD Survey (Vessel) WQ General & Regular DCM	CWD Survey (Vessel)	CWD Survey (Vessel) WQ General & Regular DCM		WQ General & Regular DCM
		mid-ebb: 15:29	9	mid-ebb: 17:18	8	mid-ebb: 8:29
		mid-flood: 8:23	3	mid-flood: 4:46	6	mid-flood: 12:52
14	15	16	17	18	19	20
	Site Inspection	Site Inspection		Site Inspection	Site Inspection	
			AR1A, AR2			
			NM1A, NM5	NM4, NM6		
	CIMP Common (Massell)	CMD Common (Manage)		CIMP Common (Manage)		
	CWD Survey (Vessel)	CWD Survey (Vessel) WQ General & Regular DCM		CWD Survey (Vessel) WQ General & Regular DCM		WQ General & Regular DCM
		mid-ebb: 11:07		mid-ebb: 12:10		mid-ebb: 13:29
21	22	mid-flood: 16:50 23	24	mid-flood: 5:40 25	6 <b>26</b>	mid-flood: 6:38 27
21	Site Inspection	Site Inspection	Site Inspection	Site Inspection	20	21
	NM4, NM6	AR1A, AR2 NM1A, NM5				
	INM4, NM6	NWIA, NWIS				
	CWD Survey (Vessel)	CWD Survey (Land-based)				
		WQ General & Regular DCM mid-ebb: 15:23	3	WQ General & Regular DCM mid-ebb: 16:44	4	WQ General & Regular DCM mid-ebb: 18:24
		mid-flood: 8:0°	1	mid-flood: 4:20		mid-flood: 5:59
28	29	30	31			
	Site Inspection	Site Inspection	Site Inspection			
	AR1A, AR2					
	NM1A, NM5					
		WQ General & Regular DCM mid-ebb: 10:09				
		mid-flood: 15:45				
		Notes:	·			
		CWD - Chinese White Dolphin				
		2.1.5 Simos Vinto Bolpini	NM1A/AR1A - Man Tung Road Park			
		Air quality and Noise Monitoring Station	NM4 - Ching Chung Hau Po Woon Primary NM5/AR2 - Village House, Tin Sum	School		
			NM6 - House No. 1, Sha Lo Wan			
		WQ - Water Quality				

## **Appendix D.** Monitoring Results

Mott MacDonald   Expansion of Hong Kong International Airport into a Three-Runway System Construction Phase Monthly EM&A Report No. 88 (For April 2023)

**Air Quality Monitoring Results** 

#### 1-hour TSP Results

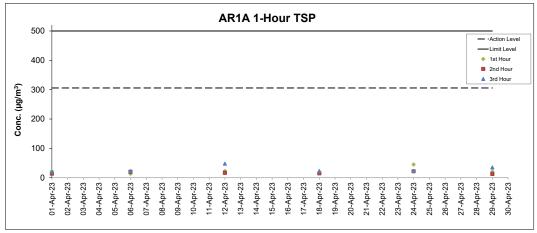
#### Station: AR1A- Man Tung Road Park

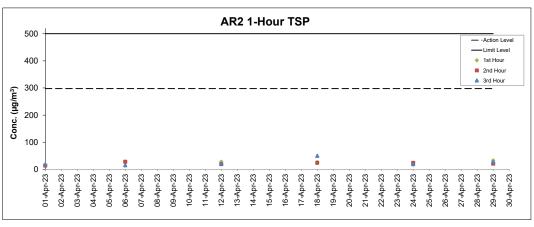
Date	Time	Weather	Wind Speed (m/s)	Wind Direction (deg)	1-hr TSP (μg/m³)	Action Level (µg/m³)	Limit Level (µg/m³)
1-Apr-23	8:15	Cloudy	5.6	86	22	306	500
1-Apr-23	9:15	Cloudy	5.3	82	14	306	500
1-Apr-23	10:15	Cloudy	6.1	89	20	306	500
6-Apr-23	8:10	Cloudy	3.9	150	14	306	500
6-Apr-23	9:10	Cloudy	3.3	164	20	306	500
6-Apr-23	10:25	Cloudy	2.8	163	23	306	500
12-Apr-23	8:10	Sunny	1.4	329	23	306	500
12-Apr-23	9:10	Sunny	2.2	331	17	306	500
12-Apr-23	10:10	Sunny	2.5	309	48	306	500
18-Apr-23	8:10	Sunny	3.9	116	18	306	500
18-Apr-23	9:10	Sunny	4.2	137	15	306	500
18-Apr-23	10:10	Sunny	5.0	151	23	306	500
24-Apr-23	8:18	Sunny	4.9	81	45	306	500
24-Apr-23	9:18	Sunny	6.7	92	22	306	500
24-Apr-23	10:18	Sunny	6.4	87	23	306	500
29-Apr-23	10:33	Cloudy	1.7	351	21	306	500
29-Apr-23	11:33	Cloudy	3.1	273	13	306	500
29-Apr-23	12:33	Cloudy	3.3	289	35	306	500

#### 1-hour TSP Results

Station: AR2- Village House, Tin Sum

D-+-	Time		145 16 16 16	Wind Direction	, 3,	Action Level	Limit Level
Date	Time	Weather	Wind Speed (m/s)	(deg)	1-hr TSP (μg/m³)	(µg/m³)	(μg/m³)
1-Apr-23	12:35	Cloudy	5.0	72	16	298	500
1-Apr-23	13:35	Cloudy	5.3	80	14	298	500
1-Apr-23	14:35	Cloudy	6.1	75	18	298	500
6-Apr-23	14:26	Cloudy	5.3	179	28	298	500
6-Apr-23	15:26	Cloudy	2.5	232	28	298	500
6-Apr-23	16:26	Cloudy	3.3	191	15	298	500
12-Apr-23	12:16	Sunny	3.3	263	28	298	500
12-Apr-23	13:16	Sunny	3.9	272	19	298	500
12-Apr-23	14:16	Sunny	4.9	265	21	298	500
18-Apr-23	12:25	Sunny	5.0	146	27	298	500
18-Apr-23	13:25	Sunny	5.3	143	24	298	500
18-Apr-23	14:25	Sunny	4.7	138	50	298	500
24-Apr-23	14:32	Sunny	3.9	59	17	298	500
24-Apr-23	15:32	Sunny	2.2	76	24	298	500
24-Apr-23	16:32	Sunny	2.5	317	20	298	500
29-Apr-23	15:00	Cloudy	3.3	253	33	298	500
29-Apr-23	16:00	Cloudy	4.2	286	21	298	500
29-Apr-23	17:00	Cloudy	5.0	321	27	298	500





- Notes

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

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

  3. QA/CC 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

	VIIA- IVIAII I		Measured	Measured	
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) ^
6-Apr-23	Cloudy	8:25	62.7	59.7	
6-Apr-23	Cloudy	8:30	63.3	59.9	
6-Apr-23	Cloudy	8:35	63.4	59.4	64
6-Apr-23	Cloudy	8:40	62.9	59.0	04
6-Apr-23	Cloudy	8:45	62.9	59.7	
6-Apr-23	Cloudy	8:50	62.9	57.9	
12-Apr-23	Sunny	8:19	63.3	59.1	
12-Apr-23	Sunny	8:24	63.5	59.3	
12-Apr-23	Sunny	8:29	62.8	58.2	64
12-Apr-23	Sunny	8:34	63.2	58.4	04
12-Apr-23	Sunny	8:39	63.6	58.9	
12-Apr-23	Sunny	8:44	63.4	58.8	
18-Apr-23	Sunny	8:55	65.6	59.9	
18-Apr-23	Sunny	9:00	64.4	59.9	
18-Apr-23	Sunny	9:05	63.6	59.4	67
18-Apr-23	Sunny	9:10	64.3	60.2	67
18-Apr-23	Sunny	9:15	65.0	60.0	
18-Apr-23	Sunny	9:20	69.8	59.2	
24-Apr-23	Cloudy	8:34	63.1	52.0	
24-Apr-23	Cloudy	8:39	64.0	59.7	
24-Apr-23	Cloudy	8:44	62.9	59.6	65
24-Apr-23	Cloudy	8:49	63.0	59.2	7 05
24-Apr-23	Cloudy	8:54	63.9	60.0	
24-Apr-23	Cloudy	8:59	63.9	59.7	

#### **Noise Measurement Results**

Station: NM4- Ching Chung Hau Po Woon Primary School

Date	Weather	Time	Measured	Measured	Ι
Date	weather	Time	$\mathbf{L}_{10}\mathrm{dB}(A)$	<b>L</b> <sub>90</sub> dB(A)	L <sub>eq(30mins)</sub> dB(A) ^
6-Apr-23	Cloudy	13:22	62.2	55.3	
6-Apr-23	Cloudy	13:27	59.7	54.9	
6-Apr-23	Cloudy	13:32	60.2	55.3	61
6-Apr-23	Cloudy	13:37	60.7	55.2	01
6-Apr-23	Cloudy	13:42	57.7	54.7	
6-Apr-23	Cloudy	13:47	59.2	55.4	
14-Apr-23	Cloudy	11:00	65.5	57.2	
14-Apr-23	Cloudy	11:05	68.0	57.3	
14-Apr-23	Cloudy	11:10	65.6	57.5	66
14-Apr-23	Cloudy	11:15	67.2	58.1	7 00
14-Apr-23	Cloudy	11:20	67.0	58.3	
14-Apr-23	Cloudy	11:25	63.3	58.4	
21-Apr-23	Cloudy	11:04	63.5	59.0	
21-Apr-23	Cloudy	11:09	62.6	59.3	
21-Apr-23	Cloudy	11:14	63.8	59.2	65
21-Apr-23	Cloudy	11:19	62.8	59.6	] 03
21-Apr-23	Cloudy	11:24	65.5	59.5	
21-Apr-23	Cloudy	11:29	64.8	60.2	
27-Apr-23	Sunny	12:52	55.6	48.1	
27-Apr-23	Sunny	12:57	55.7	47.8	
27-Apr-23	Sunny	13:02	55.0	45.7	58
27-Apr-23	Sunny	13:07	56.6	48.4	] <sup>3</sup> °
27-Apr-23	Sunny	13:12	58.2	48.2	
27-Apr-23	Sunny	13:17	60.8	46.0	

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.

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

#### **Noise Measurement Results**

Station: NM5- Village House, Tin Sum

Date	Weather	Time	Measured	Measured	I 19743 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) ^
6-Apr-23	Cloudy	11:49	62.7	59.2	
6-Apr-23	Cloudy	11:54	63.4	59.5	
6-Apr-23	Cloudy	11:59	62.3	59.2	62*
6-Apr-23	Cloudy	12:04	62.5	58.4	02
6-Apr-23	Cloudy	12:09	62.8	59.1	
6-Apr-23	Cloudy	12:14	62.4	58.9	
12-Apr-23	Sunny	11:15	63.1	57.8	
12-Apr-23	Sunny	11:20	64.0	58.5	
12-Apr-23	Sunny	11:25	63.7	58.0	62*
12-Apr-23	Sunny	11:30	63.1	58.2	02
12-Apr-23	Sunny	11:35	62.4	57.3	
12-Apr-23	Sunny	11:40	64.2	58.3	
18-Apr-23	Sunny	14:15	60.2	56.3	
18-Apr-23	Sunny	14:20	60.2	55.8	
18-Apr-23	Sunny	14:25	61.1	56.7	62*
18-Apr-23	Sunny	14:30	62.0	56.7	02
18-Apr-23	Sunny	14:35	64.1	56.7	
18-Apr-23	Sunny	14:40	64.5	56.4	
24-Apr-23	Cloudy	13:19	62.4	52.8	
24-Apr-23	Cloudy	13:24	63.5	53.9	
24-Apr-23	Cloudy	13:29	63.9	53.7	61*
24-Apr-23	Cloudy	13:34	62.5	54.9	
24-Apr-23	Cloudy	13:39	61.8	53.1	
24-Apr-23	Cloudy	13:44	60.7	52.8	

#### **Noise Measurement Results**

Station: NM6- House No.1 Sha Lo Wan

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) ^
6-Apr-23	Cloudy	15:56	67.4	52.2	
6-Apr-23	Cloudy	16:01	57.9	50.3	
6-Apr-23	Cloudy	16:06	62.1	51.8	67
6-Apr-23	Cloudy	16:11	57.3	49.9	07
6-Apr-23	Cloudy	16:16	67.7	50.2	
6-Apr-23	Cloudy	16:21	61.1	49.3	
14-Apr-23	Cloudy	9:39	62.2	53.7	
14-Apr-23	Cloudy	9:44	60.7	53.3	
14-Apr-23	Cloudy	9:49	62.4	54.8	63
14-Apr-23	Cloudy	9:54	65.3	56.3	03
14-Apr-23	Cloudy	9:59	62.8	54.8	
14-Apr-23	Cloudy	10:04	62.5	53.9	
21-Apr-23	Cloudy	13:11	64.8	55.5	
21-Apr-23	Cloudy	13:16	64.6	55.5	
21-Apr-23	Cloudy	13:21	61.9	54.3	65
21-Apr-23	Cloudy	13:26	61.9	53.4	05
21-Apr-23	Cloudy	13:31	60.5	53.3	
21-Apr-23	Cloudy	13:36	60.4	53.7	
27-Apr-23	Sunny	16:21	61.4	52.3	
27-Apr-23	Sunny	16:26	60.5	54.9	
27-Apr-23	Sunny	16:31	64.9	55.7	65
27-Apr-23	Sunny	16:36	59.0	54.5	
27-Apr-23	Sunny	16:41	64.5	54.0	_
27-Apr-23	Sunny	16:46	63.7	53.3	

Z4-Apr-23 | Second Remarks:

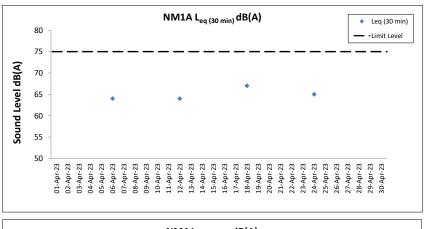
(^) +3dB (A) correction in Leq(30mins) dB(A) was applied to free-field measurement.

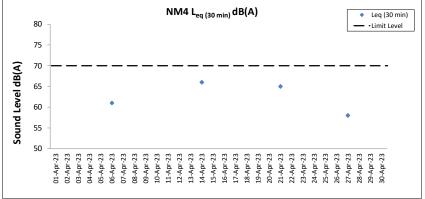
(\*) The measurement result was corrected with reference to the baseline monitoring levels.

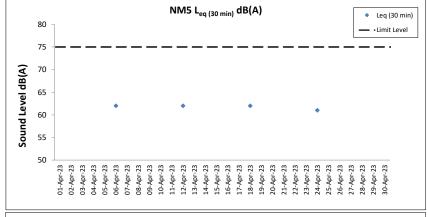
Remarks:

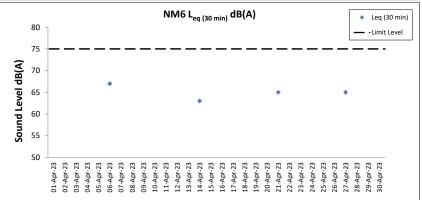
(^) +3dB (A) correction in Leq(30mins) dB(A) was applied to free-field measurement.

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









#### Notes

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

Water	Quality	Monito	ring Re	esults	

Mott MacDonald | Expansion of Hong Kong International Airport into a Three-Runway System Construction Phase Monthly EM&A Report No. 88 (For April 2023)

Water Quality Monitoring Results on 01 April 23 during Mid-Ebb Tide

Water Qua	ity moint	oning Kesu	113 011		UT April 23	during wild-	LDD IIU																	
Monitoring	Weather	Sea	Sampling	Water	Sampling Depti	h (m)	Current Speed	Current	Water Te	emperature (°C)	ŀ	рН	Salir	nity (ppt)		aturation (%)	Disso Oxy		Turbidity	/(NTU)	Suspende (mg		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling Depti	·· (··· <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	199	20.4	20.4	8.2	8.2	29.9 30.0	30.0	93.4	93.3	7.1		2.5		5			
					Sunace	1.0	0.1	199	20.4	20.4	8.2	0.2	30.0	30.0	93.2	33.3	7.1	7.0	2.6		4			
C1	Cloudy	Moderate	10:59	8.5	Middle	4.3	0.0	221	20.4	20.4	8.2	8.2	31.0	31.0	92.3	92.3	6.9	7.0	4.9	6.1	4	4	815602	804239
	Oloudy	Moderate	10.03	0.5	Middle	4.3	0.0	220	20.4	20.4	8.2	0.2	31.0	31.0	92.3	32.3	6.9		4.9	0.1	4		013002	007203
					Bottom	7.5	0.1	178	20.4	20.4	8.2	8.2	31.1	31.1	92.7	92.9	7.0	7.0	11.0	1	4			
					Dottom	7.5	0.1	179	20.4	20.7	8.2	0.2	31.1	01.1	93.0	02.0	7.0	7.0	11.0		3			
		·			Surface	1.0	0.1	183	20.6	20.6	8.1	8.1	27.3 27.3	27.3	88.7	88.7	6.8	] ]	3.0	1	4			
					54.1400	1.0	0.1	177	20.6	25.0	8.1	0.1		27.0	88.6	55.1	6.8	6.8	3.2	1	3			
C2	Cloudy	Moderate	12:18	12.4	Middle	6.2	0.2	198	20.5	20.5	8.2	8.2	30.1	30.2	89.1	89.2	6.7	0.0	6.7	6.3	3	4	825667	806925
J	O.Cuuy					6.2	0.2	197	20.5	20.0	8.2		30.2	00.2	89.3	00.2	6.7		7.2		4	'	02000.	000020
					Bottom	11.4	0.2	155	20.5	20.5	8.2	8.2	30.6	30.6	89.9	90.0	6.8	6.8	8.8	4	4			
						11.4	0.2	150	20.4		8.2		30.6		90.0		6.8		8.8	ļ	4			
					Surface	1.0	0.2	91	21.0	21.0	7.9	7.9	31.1	31.1	87.1	87.2	6.5		1.1	4	3			
						1.0	0.2	93	21.0		7.9		31.1		87.2		6.5	6.6	1.1	4	3			
C3	Misty	Moderate	09:54	11.4	Middle	5.7	0.1	74	21.0	21.0	7.9	7.9	31.3	31.3	88.2	88.3	6.6		1.9	1.7	3	3	822091	817784
	ĺ					5.7	0.1	77	21.0		7.9		31.3		88.3		6.6		1.9	4	3			
					Bottom	10.4	0.1	78	20.9	20.9	7.8	7.8	31.3	31.3	89.7	89.9	6.7	6.7	2.1	4	2	1		
<u> </u>			1	<u> </u>		10.4	0.1	74	20.9	<u> </u>	7.8			l I	90.1		6.7		2.1	1	3	l I		
					Surface	1.0	0.0	166 169	20.4	20.4	8.2	8.2	28.9	28.8	94.2	94.1	7.2	l	2.2	4	2	1		
						3.3	0.0	144	20.4		8.2		31.1		89.9		6.8	7.0	5.8	1	3	ł		
IM1	Cloudy	Moderate	11:24	6.5	Middle	3.3	0.0	144	20.4	20.4	8.2	8.2	31.1	31.2	89.8	89.9	6.7	}	6.6	6.8	4	3	818351	806479
						5.5	0.1	169	20.4		8.2		31.6		89.8		6.7		11.8	1	4			
					Bottom	5.5	0.1	170	20.4	20.4	8.2	8.2	31.6	31.6	89.9	89.9	6.7	6.7	11.9	1	3	ł		
<b>—</b>				<u> </u>		1.0	0.1	198	20.4	<u> </u>	8.2				91.2		7.0		3.2		5			
					Surface	1.0	0.1	192	20.4	20.4	8.2	8.2	28.8	28.8	91.0	91.1	6.9		3.5	1	5	1		
						3.4	0.1	191	20.4		8.2		31.2		90.7		6.8	6.9	5.1	1	4	1		
IM2	Cloudy	Moderate	11:29	6.7	Middle	3.4	0.1	188	20.4	20.4	8.2	8.2	31.2	31.2	90.7	90.7	6.8	1 1	5.2	5.7	2	4	819181	806256
					5	5.7	0.1	190	20.3		8.2		31.6		90.7		6.8		8.9	1	2	1		
					Bottom	5.7	0.0	193	20.3	20.3	8.2	8.2	31.6	31.6	90.8	90.8	6.8	6.8	8.0	1	3	1		
			Ì		Ourton	1.0	0.1	148	20.6	00.0	8.2	0.0	29.3	00.4	89.4	00.5	6.8	i i	3.5		4			
					Surface	1.0	0.1	150	20.5	20.6	8.2	8.2	29.5	29.4	89.5	89.5	6.8		3.8	1	4	1		
18.47	Classel	Madaust -	44.50	7.5	NA: dalla	3.8	0.0	163	20.5	20.5	8.2	0.0	30.4	20.4	89.7	00.7	6.8	6.8	4.9	1 46	4	_	004000	000000
IM7	Cloudy	Moderate	11:50	7.5	Middle	3.8	0.0	158	20.5	20.5	8.2	8.2	30.5	30.4	89.7	89.7	6.8	1 1	5.0	4.9	5	5	821333	806823
					Pottom	6.5	0.0	134	20.4	20.4	8.2	8.2	31.0	21.0	90.1	90.1	6.8	6.0	6.1	1	6	1		
					Bottom	6.5	0.0	137	20.4	20.4	8.2	8.2	31.0	31.0	90.1	90.1	6.8	6.8	6.1	1	6	<u> </u>		

DA: Depth-Averaged

Water Quality Monitoring Results on 01 April 23 during Mid-Ebb Tide

Trator Quar	ity illoinit	oning Kesu			UT April 23	uuring miu-		•															
Monitoring	Weather	Sea	Sampling	Water	Canalina David	o (m)	Current Speed	Current	Water Te	emperature (°C)	рН	Sa	alinity (ppt)	DO S	Saturation (%)	Disso Oxyg		Turbidity	(NTU)	Suspende (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling Depti	1 (111)	(m/s)	Direction	Value	Average	Value Avera	ige Valu	ue Avera	ge Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.1	102	21.1	21.1	8.0 7.9	28.	5 28.5	90.1	90.1	6.8		2.1		2			
					Suriace	1.0	0.1	108	21.1	21.1	7.9	28.		90.0	90.1	6.8	6.8	2.1		3			
IM10	Misty	Moderate	10:58	9.0	Middle	4.5	0.1	93	21.1	21.1	7.9 7.9	28.	9 28.9	90.0	90.0	6.8	0.0	2.8	3.0	3	3	822236	809834
IIVITO	iviloty	Woderale	10.50	9.0	iviluule	4.5	0.1	97	21.1	21.1	7.9	28.	9 20.8	90.0	90.0	6.8		2.8	3.0	2	3	022230	003034
					Bottom	8.0	0.2	114	21.1	21.1	7.9	29.		90.4	90.7	6.8	6.8	4.0		4			
					Dottom	8.0	0.2	118	21.1	21.1	7.9	29.	1	91.0	55.7	6.8	0.0	4.0		5			
i					Surface	1.0	0.2	96	21.0	21.0	7.9	29.		88.6	88.6	6.6		1.6		3			
						1.0	0.2	101	21.0		7.9	29.	5	88.6	1	6.7	6.7	1.5		2			
IM11	Misty	Moderate	10:51	7.2	Middle	3.6	0.2	79	21.0	21.0	7.9 7.9	29.		89.0	89.1	6.7		2.3	2.6	4	4	821494	810563
	•					3.6	0.2	82	21.0		7.9	29.	_	89.2	1	6.7		2.3		3 5			
					Bottom	6.2	0.2	99 95	21.0 21.0	21.0	7.9 7.9	29.		90.8	91.2	6.8	6.9	3.8		4			
						1.0	0.3	95 91				_			1			1.4		4			
					Surface	1.0	0.1	85	21.1	21.1	7.9 7.9	28.		91.4 91.3	91.4	6.9		1.4		3			
						4.0	0.1	79	21.1		7.0	28	7	01.3	1	6.9	6.9	2.4		4			
IM12	Misty	Moderate	10:46	8.0	Middle	4.0	0.2	86	21.0	21.0	7.8	28.	28.8	91.4	91.4	6.9		2.4	2.4	3	4	821161	811519
					_	7.0	0.2	101	20.9		7.8	29	1	92.4	<del>                                     </del>	7.0		3.3		4			
					Bottom	7.0	0.1	105	20.9	20.9	7.8	28.		93.6	93.0	7.1	7.1	3.3		4			
					0 /	1.0	0.0	161	21.0		8.0	29.	3	88.7		6.7		1.8		4			
					Surface	1.0	0.1	167	21.0	21.0	8.0	29.	29.4	88.7	88.7	6.7	6.7	1.8		3			
SR1A	Miotr	Moderate	10.22	F 0	Middle	2.5	0.1	165	-		-	-		-		-	6.7	-	2.1	-	3	819973	812666
SKIA	Misty	Moderate	10:22	5.0	ivildule	2.5	-	162	-		-	-		-		-		-	2.1	-	3	019973	012000
					Bottom	4.0	0.1	178	21.0	21.0	7.9 7.9	29.		88.5	88.5	6.6	6.6	2.5		3			
					Bottom	4.0	0.0	176	21.0	27.0	7.9	29.	3	88.5	55.5	6.6	0.0	2.4		3			
					Surface	1.0	0.1	85	21.1	21.1	7.9	30.		85.7	85.7	6.4		2.2		3			
						1.0	0.1	88	21.1		7.9	30.	1	85.6	1	6.4	6.4	2.1		2			
SR2	Misty	Moderate	10:14	5.2	Middle	-	0.1	84	-	-				-	4 -	-	-	-	2.4	-	3	821452	814151
						-	0.0	89	-		-	-		-		-		-		-			
					Bottom	4.2 4.2	0.0	86	21.1	21.1	7.9 7.9	30.		85.5 85.6	85.6	6.4	6.4	2.6		3			
						1.0	0.1	93 158	21.1			30. 28.			1	6.4 6.6		2.6		3			
					Surface	1.0	0.2	158	20.7	20.7	8.1 8.1	28.		87.5 87.4	87.5	6.6		2.2		3			
						4.5	0.2	150	20.7		8.1	29	5	87.8	1	6.6	6.6	2.3		4			
SR3	Cloudy	Moderate	11:57	8.9	Middle	4.5	0.2	146	20.6	20.6	8.1	29.		87.9	87.9	6.6		3.0	5.0	3	4	822161	807584
					_	7.9	0.2	157	20.3		8.2	30	1	01.2	† <u></u>	6.9		9.7		5			
					Bottom	7.9	0.2	162	20.3	20.3	8.2	30.		91.4	91.3	6.9	6.9	9.7		4			
				Ì	Ourtous	1.0	0.0	248	20.4	00.4	8.0	29	8	91.7	04.7	6.9		4.3		6			
					Surface	1.0	0.0	247	20.4	20.4	8.0	29.		91.6	91.7	6.9		4.3		6			
SR4A	Clouds	Moderate	10:20	0.0	Middle	4.5	0.0	251	20.4	20.4	8.0	31.	0 34.0	90.0	00.0	6.8	6.9	6.7	6.2	6	-	817181	807807
SK4A	Cloudy	Moderate	10:30	9.0	Middle	4.5	0.1	252	20.4	20.4	8.0	31.	31.0	90.0	90.0	6.8		6.9	6.2	4	5	81/181	807807
					Bottom	8.0	0.0	257	20.4	20.4	8.0	31.		90.7	90.8	6.8	6.8	7.6		4			
					Dottom	8.0	0.0	256	20.4	20.7	8.0	31.	3	90.9	30.0	6.8	0.0	7.5		5			
		· · · · · · · · · · · · · · · · · · ·			Surface	1.0	-	-	21.0	21.0	7.9	28.		93.5	93.7	7.1		1.9		2			
					54455	1.0	-	-	20.9	20	7.9	28.	4	93.8	00	7.1	7.1	1.9		4			
SR8	Misty	Moderate	10:42	5.4	Middle	-	-	-	-	-				-	<b>.</b> .	-	•••	-	2.0	-	3	820388	811621
	,					-	-	-	-		-		_	-	1	-		-		-	-		
					Bottom	4.4	-	-	20.8	20.8	7.8	28.		94.5	94.5	7.1	7.2	2.1		3			
						4.4	-	-	20.8		7.8	28.	6	94.5		7.2		2.1		2			

Water Quality Monitoring Results on 01 April 23 during Mid-Flood Tide

Water Quar	ity wonit	oring Resu	แร บท		01 April 23	auring Mia-	riooa ii	ue																
Monitoring	Weather	Sea	Sampling	Water	Sampling Depti	. (m)	Current Speed	Current	Water Te	emperature (°C)	р	Н	Salin	ity (ppt)		aturation (%)	Disso Oxyg		Turbidity	(NTU)	Suspende (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling Depti	1 (111)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					0	1.0	0.1	21	20.4	00.4	8.2	0.0	29.4	00.5	94.8	04.0	7.2		1.5		2			
					Surface	1.0	0.1	23	20.4	20.4	8.2	8.2	29.5	29.5	94.7	94.8	7.2		1.6		2			
0.4	O		45.40			4.2	0.2	19	20.4		8.2		31.1		92.7		7.0	7.1	2.8	1	2		0.45000	004070
C1	Cloudy	Moderate	15:40	8.4	Middle	4.2	0.1	14	20.4	20.4	8.2	8.2	31.1	31.1	92.7	92.7	7.0		2.8	5.1	2	3	815638	804270
						7.4	0.2	13	20.4		8.2		31.2				7.0		11.1	1	3			
					Bottom	7.4	0.2	9	20.4	20.4	8.2	8.2	31.2	31.2	93.5 93.8	93.7	7.0	7.0	11.2	1	4			
					0 (	1.0	0.0	256	20.7		8.1		27.2		88.6		6.8		2.6		6			
					Surface	1.0	0.1	250	20.7	20.7	8.1	8.1	27.2	27.2	88.5	88.6	6.8	6.7	2.7	1	5			
00	01		44.47	40.0	NAC-L-III-	6.3	0.1	233	20.5	00.5	8.1	0.4	30.1	30.2	87.9	87.9	6.6	6.7	4.4	1	4	_	005077	000004
C2	Cloudy	Moderate	14:17	12.6	Middle	6.3	0.0	225	20.5	20.5	8.1	8.1	30.2	30.2	87.9	87.9	6.6		4.4	5.8	5	5	825677	806964
					Dettern	11.6	0.1	248	20.6	20.6	8.1	0.4	30.5	20.5	88.6	88.7	6.7	6.7	10.5	1	5			
					Bottom	11.6	0.1	244	20.6	20.6	8.1	8.1	30.5	30.5	88.7	88.7	6.7	6.7	10.3		4			
					Surface	1.0	0.3	256	21.1	21.1	8.0	8.0	28.1	28.3	91.1	91.1	6.9		1.4		3			
					Surface	1.0	0.3	253	21.0	21.1	8.0	8.0	28.4	28.3	91.0	91.1	6.9	6.9	1.4	1	3			
СЗ	Misty	Moderate	15:20	9.2	Middle	4.6	0.2	240	21.0	21.0	8.0	8.0	28.9	28.9	91.1	91.2	6.9	6.9	2.3	2.3	2	2	822104	817812
Co	iviisty	Moderate	15.20	9.2	Middle	4.6	0.2	246	21.0	21.0	8.0	6.0	29.0	20.9	91.2	91.2	6.9		2.2	2.3	2	2	022104	01/012
					Bottom	8.2	0.2	240	21.1	21.1	8.0	8.0	29.1	28.9	92.0 92.2	92.1	6.9	6.9	3.3		2			
					Bottom	8.2	0.3	236	21.1	21.1	8.0	0.0	28.8	20.9	92.2	92.1	6.9	0.9	3.2		2			
					Surface	1.0	0.1	16	20.4	20.4	8.2	8.2	30.2	30.2	93.3 93.2	93.3	7.0		2.6		3			
					Surface	1.0	0.1	21	20.4	20.4	8.2	0.2	30.3	30.2	93.2	33.3	7.0	7.0	2.8		3			
IM1	Cloudy	Moderate	15:14	6.5	Middle	3.3	0.0	30	20.4	20.4	8.2	8.2	31.0	31.0	92.5	92.5	7.0	7.0	5.0	5.1	3	3	818349	806460
IIVII	Cloudy	Woderate	13.14	0.5	Wildele	3.3	-	27	20.4	20.4	8.2	0.2	31.1	31.0	92.4	32.3	7.0		5.2	3.1	4	3	010545	000400
					Bottom	5.5	0.0	37	20.3	20.3	8.2	8.2	31.6	31.6	91.7	92.1	6.9	6.9	7.3		3			
					Bottom	5.5	0.1	29	20.2	20.5	8.2	0.2	31.6	31.0	92.4	32.1	6.9	0.5	7.9		4			
					Surface	1.0	0.1	284	20.4	20.4	8.2	8.2	29.3	29.3	95.3	95.2	7.2		1.5		5			
					Gundoe	1.0	0.1	288	20.4	20.4	8.2	0.2	29.3	20.0	95.1	00.Z	7.2	7.1	1.5		5			
IM2	Cloudy	Moderate	15:10	6.9	Middle	3.5	0.1	311	20.4	20.4	8.2	8.2	30.5	30.6	91.6	91.5	6.9	7	2.5	3.3	5	5	819202	806248
11412	Cloudy	Moderate	10.10	0.0	Middle	3.5	0.1	318	20.4	20.4	8.2	0.2	30.7	00.0	91.3	01.0	6.9		2.7	0.0	5	o	010202	000240
					Bottom	5.9	0.0	306	20.3	20.3	8.2	8.2	31.5	31.5	89.9 90.0	90.0	6.8	6.8	5.7		5			
					Bottom	5.9	0.1	305	20.3	20.0	8.2	0.2	31.5	01.0		00.0	6.8	0.0	5.7		5			
		·			Surface	1.0	0.1	263	20.6	20.6	8.2	8.2	28.4	28.5	89.1 89.1	89.1	6.8		4.3	1	4			
						1.0	0.1	256	20.5	25.0	8.2	J.2	28.5	25.0		55.1	6.8	6.8	4.6	1	3			
IM7	Cloudy	Moderate	14:50	7.3	Middle	3.7	0.1	267	20.4	20.4	8.2	8.2	30.8	30.8	89.1 89.2	89.2	6.7	0.0	6.2	5.8	4	5	821357	806820
	J.Juay					3.7	0.1	274	20.4	20	8.2	0.2	30.9	00.0		00.2	6.7		6.3	] "."	5	Ŭ	02.007	000020
					Bottom	6.3	0.1	285	20.4	20.4	8.2	8.2	31.1	31.1	89.3	89.4	6.7	6.7	6.8	1	6			
DA: Dopth Aver						6.3	0.1	278	20.4	_2	8.2		31.1		89.4	-5	6.7		6.8		5			

DA: Depth-Averaged

Water Quality Monitoring Results on 01 April 23 during Mid-Flood Tide

Trutter Quar		g			OT April 20	auring ima	_																	
Monitoring	Weather	Sea	Sampling	Water	Sampling Dept	h (m)	Current Speed	Current	Water Te	emperature (°C)		pН	Salir	nity (ppt)	DO S	Saturation (%)	Disso 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	0.1	268	21.2	21.2	7.9	7.9	27.8	27.8	90.8	90.7	6.9		2.0		3			
					Surface	1.0	0.1	274	21.2	21.2	7.9	7.9	27.9	21.0	90.6	90.7	6.8	6.8	2.0		3			
IM10	Misty	Moderate	14:14	9.0	Middle	4.5	0.1	265	21.2	21.2	7.9	7.8	28.4	28.5	90.5	90.7	6.8	0.0	1.2	1.9	3	3	822219	809824
IIVITO	iviloty	Woderate	14.14	3.0	Middle	4.5	0.0	267	21.2	21.2	7.8	7.0	28.6	20.5	90.8	30.7	6.8		1.2	1.5	3	3	022213	003024
					Bottom	8.0	0.1	280	21.2	21.2	7.8	7.8	29.0	28.8	94.4	94.5	7.1	7.1	2.5		3			
					Dottom	8.0	0.1	283	21.2		7.8	7.0	28.7	20.0	94.6	0 1.0	7.1	••••	2.5		3			
					Surface	1.0	0.1	284	21.1	21.1	8.0	8.0	27.2	27.2	89.6	89.7	6.8		1.6		3			
						1.0	0.2	289	21.1		8.0		27.1		89.7		6.8	6.8	1.6		4			
IM11	Misty	Moderate	14:24	7.2	Middle	3.6	0.1	267	21.1	21.1	8.0	8.0	29.0	29.0	90.0	90.1	6.8		2.0	2.2	2	3	821505	810543
	- ,					3.6	0.1	270	21.1		8.0		29.0		90.1		6.8		2.0		3			
					Bottom	6.2	0.1	278	21.2	21.2	8.0	8.0	28.9	28.8	90.5	90.6	6.8	6.8	3.0		3			
						6.2	0.1	278	21.2		8.0		28.7		90.6		6.8		2.9		2			
					Surface	1.0	0.1	284	21.1	21.1	8.0	8.0	28.4	26.7	87.8	87.8	6.6		1.3		2			
						1.0	0.1	282	21.1		8.0		25.0		87.7		6.8	6.7	1.3		3			
IM12	Misty	Moderate	14:30	6.4	Middle	3.2	0.2	293	21.1	21.1	8.0	8.0	29.6	29.6	87.9	88.0	6.6		1.6	1.7	3	3	821143	811524
						3.2 5.4	0.1	294	21.1		8.0		29.6		88.0		6.6		1.6		3			
					Bottom	5.4	0.1	311 312	21.1 21.1	21.1	7.9	7.9	29.4	29.4	88.3 88.3	88.3	6.6	6.6	2.2		3			
						1.0	0.1	168	21.1				27.4				6.9		1.1		4			
					Surface	1.0	0.0	162	21.3	21.3	7.9	7.9	27.4	27.4	91.7 91.6	91.7	6.9		1.0		3			
						2.6	0.0	170	-		7.9		-		91.0		- 0.9	6.9	-		3			
SR1A	Misty	Moderate	14:44	5.2	Middle	2.6	0.0	175	-	-	-	-	-	-	H	-	-		-	1.6	-	3	819982	812658
						4.2	0.0	179	21.4		7.8		28.2		94.6		7.1		2.2		2			
					Bottom	4.2	-	180	21.4	21.4	7.7	7.7	27.8	28.0	94.7	94.7	7.1	7.1	2.2		3			
						1.0	0.0	241	21.1		7.9		29.3		88.1		6.6		1.1		4			
					Surface	1.0	0.0	246	21.1	21.1	7.9	7.9	29.4	29.4	88.0	88.1	6.6		1.1		3			
						-	0.0	220			-		-		-		-	6.6	-		-	_		
SR2	Misty	Moderate	15:03	5.8	Middle	_	-	215	-	-	-	-	-	-	-	-	-		-	1.2	-	3	821460	814144
					5	4.8	0.0	254	21.1	04.4	7.9		29.7		88.0		6.6		1.3		3			
					Bottom	4.8	0.0	248	21.1	21.1	8.0	8.0	29.7	29.7	88.3	88.2	6.6	6.6	1.3		3			
					Ourton	1.0	0.0	172	20.6	00.0	8.1	0.4	27.9	07.0	89.0	00.0	6.8		4.1		4			
					Surface	1.0	0.0	171	20.6	20.6	8.1	8.1	27.9	27.9	89.0	89.0	6.8	C 0	4.7		5			
SR3	Claudu	Madausta	44.44	0.0	Middle	4.2	0.0	176	20.5	20.5	8.2	0.0	30.4	20.4	89.3	00.4	6.7	6.8	6.4		6	5	000400	807576
SK3	Cloudy	Moderate	14:44	8.3	Middle	4.2	0.0	175	20.5	20.5	8.2	8.2	30.4	30.4	89.4	89.4	6.7		6.4	6.0	5	5	822133	80/5/6
					Dattom	7.3	0.1	166	20.5	20 F	8.2	0.2	30.3	20.2	89.5	89.6	6.8	6.8	7.3		6			
					Bottom	7.3	0.1	170	20.5	20.5	8.2	8.2	30.2	30.2	89.6	69.6	6.8	0.0	7.2		5			
					Surface	1.0	0.0	102	20.4	20.4	8.2	8.2	30.5	30.6	91.1	91.1	6.9		4.7		3			
					Surface	1.0	0.1	109	20.4	20.4	8.2	0.2	30.6	30.0	91.0	91.1	6.9	6.9	4.9		3			
SR4A	Cloudy	Moderate	16:13	8.8	Middle	4.4	0.0	89	20.4	20.4	8.2	8.2	30.9	30.9	90.9	91.0	6.8	0.5	5.5	5.5	5	4	817204	807822
ON-TA	Siduay	Moderate	10.13	0.0	Middle	4.4	0.0	88	20.4	20.7	8.2	0.2	31.0	50.5	91.0	31.0	6.8		5.7	5.5	4	7	017204	007022
					Bottom	7.8	0.1	94	20.3	20.3	8.2	8.2	31.0	31.0	91.5	91.8	6.9	6.9	6.3		6			
					20110111	7.8	0.1	97	20.3	20.0	8.2	J	31.0	00	92.0	00	6.9	0.0	6.2		4			
					Surface	1.0	-	-	21.2	21.2	7.9	7.9	27.9	28.0	90.3	90.3	6.8		1.4		4			
					<b>5</b> 4455	1.0	-	-	21.2		7.9		28.0	20.0	90.3	00.0	6.8	6.8	1.5		3			
SR8	Misty	Moderate	14:36	5.0	Middle	-	-	-	-	-	-	_	-		-	_	-	0.0	-	1.5	-	3	820401	811630
						-	-	-	-		-		-		-		-		-		-	-		
					Bottom	4.0	-	-	21.2	21.2	7.9	7.9	28.1	28.0	90.7	90.8	6.8	6.9	1.6		3			
						4.0	-	-	21.2		7.9		28.0		90.8		6.9		1.7		2			

Water Quality Monitoring Results on 04 April 23 during Mid-Ebb Tide

Water Quar	ity wont	oring Kesu	its on		04 April 23	auring Mia-	EDD HUG	•																
Monitoring	Weather	Sea	Sampling	Water	Sampling Dep	th (m)	Current Speed	Current	Water Te	emperature (°C)	Ŀ	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	tn (m)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
			İ		0.1	1.0	0.3	218	21.5	0.1.5	8.1		30.1	00.4	94.2	24.0	7.0		8.0	Ì	5			
					Surface	1.0	0.3	222	21.5	21.5	8.1	8.1	30.1	30.1	94.1	94.2	7.0		7.6	1	4			
C1	Claudu	Madazata	40.00	0.0	Middle	4.1	0.3	214	21.5	21.5	8.1	8.1	30.1	30.1	93.9	93.9	7.0	7.0	9.2	8.6	6		815608	804262
CI	Cloudy	Moderate	12:30	8.2	ivildale	4.1	0.2	218	21.5	21.5	8.1	0.1	30.1	30.1	93.9	93.9	7.0		9.7	8.6	5	6	813608	804262
					Bottom	7.2	0.2	189	21.5	21.5	8.1	8.1	30.1	30.1	93.8 93.8	93.8	7.0	7.0	9.0	1	7			
					BOILOITI	7.2	0.3	182	21.5	21.5	8.1	0.1	30.1	30.1	93.8	93.0	7.0	7.0	8.5		8			
					Surface	1.0	0.0	151	21.7	21.7	8.1	8.1	26.0	26.0	91.8	91.8	6.9		3.0		10			
					Odiface	1.0	0.0	144	21.7	21.7	8.1	0.1	26.0	20.0	91.8	31.0	6.9	6.7	3.0		10			
C2	Cloudy	Moderate	10:49	12.0	Middle	6.0	0.1	161	21.2	21.2	8.1	8.1	29.2	29.2	86.9 86.9	86.9	6.5 6.5	0.7	3.5	3.3	9	9	825690	806950
02	Oloudy	Woderate	10.40	12.0	Wildalo	6.0	0.1	166	21.2	21.2	8.1	0.1	29.2	20.2		00.0			3.6	0.0	8	J	020000	000000
					Bottom	11.0	0.1	138	21.4	21.4	8.1	8.1	30.0	30.0	87.8	87.8	6.5	6.5	3.5		7			
						11.0	0.1	142	21.4		8.1	• • • •	30.0		87.8		6.5		3.5		8			
					Surface	1.0	0.3	78	20.2	20.2	8.1	8.1	28.3	28.3	98.6	98.5	7.6		1.1		4			
						1.0	0.3	72	20.2		8.1		28.3		98.3		7.5	7.4	1.1		5			
C3	Misty	Moderate	11:49	9.8	Middle	4.9	0.3	69	20.2	20.2	8.1	8.1	27.7	27.7	94.3	94.6	7.2 7.3		1.7	1.6	4	4	822127	817799
	,					4.9	0.3	75	20.2		8.1		27.7						1.7	4	4			
					Bottom	8.8 8.8	0.3	70	20.0	20.0	8.0	8.0	28.1	28.1	92.0 92.4	92.2	7.1 7.1	7.1	2.1	_	3			
						1.0	0.3	64 192					30.3		•				5.6	1	3			
					Surface	1.0	0.1	198	21.3 21.3	21.3	8.2 8.2	8.2	30.3	30.3	95.7 95.6	95.7	7.1 7.1		5.7	1	4			
						3.1	0.1	203	21.3		8.1		30.4					7.1	6.2	1	5			
IM1	Cloudy	Moderate	12:07	6.2	Middle	3.1	0.1	196	21.3	21.3	8.1	8.1	30.4	30.4	94.8	94.8	7.0		6.3	7.4	4	5	818354	806478
					_	5.2	0.1	180	21.3		8.1		30.4		94.7		7.0		11.0	1	5			
					Bottom	5.2	0.1	183	21.3	21.3	8.1	8.1	30.4	30.4	94.7	94.7	7.0	7.0	10.1	1	6			
					0.1	1.0	0.1	190	21.3	24.0	8.1		30.4	00.4	95.8	05.0	7.1		7.5		9			
					Surface	1.0	0.1	193	21.3	21.3	8.1	8.1	30.4	30.4	95.8	95.8	7.1		7.6	1	9			
1840	01	Madazi	40.04	0.0	N.C. L.U.	3.3	0.2	171	21.3	04.0	8.1	0.4	30.4	00.4	95.5	95.5	7.1	7.1	9.0	8.7	9		040477	000054
IM2	Cloudy	Moderate	12:01	6.6	Middle	3.3	0.2	173	21.3	21.3	8.1	8.1	30.4	30.4	95.5 95.5	95.5	7.1		9.0	8.7	8	9	819177	806251
					Detter	5.6	0.1	178	21.3	21.3	8.1	0.4	30.4	30.4	95.5	95.5	7.1	7.1	9.5	1	9			
					Bottom	5.6	0.1	171	21.3	21.3	8.1	8.1	30.4	30.4	95.5	95.5	7.1	7.1	9.8	1	8			
					Surface	1.0	0.2	110	21.5	21.5	8.1	8.1	27.3	27.3	91.7	91.7	6.9		4.1		4			
					Sullace	1.0	0.2	116	21.5	21.0	8.1	0.1	27.3	21.3	91.7	91.7	6.9	7.0	4.1		3			
IM7	Cloudy	Moderate	11:26	8.3	Middle	4.2	0.2	84	21.2	21.2	8.1	8.1	29.3	29.3	93.0 93.0	93.0	7.0	1.0	7.1	6.2	3	4	821372	806851
IIVI /	Cloudy	WOUGHALE	11.20	0.5	Mildule	4.2	0.2	88	21.2	21.2	8.1	0.1	29.4	25.3		33.0	7.0		7.1	0.2	4	*	021312	000031
					Bottom	7.3	0.1	90	21.2	21.2	8.1	8.1	29.8	29.8	92.8	92.8	6.9	6.9	7.6	]	5			
DA: Dopth Aver					Dottom	7.3	0.1	83	21.2	21.2	8.1	0.1	29.8	20.0	92.7	32.0	6.9	0.5	7.5		4			

DA: Depth-Averaged

Water Quality Monitoring Results on 04 April 23 during Mid-Ebb Tide

Water Quar	10, 11101111	ornig itood			04 April 23	during wid-		•																
Monitoring	Weather	Sea	Sampling	Water	Sampling Dep	th (m)	Current Speed	Current	Water Te	emperature (°C)		рН	Salin	ity (ppt)		aturation (%)	Disso Oxy		Turbidity	(NTU)	Suspende (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling Dep	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	73	20.8	20.8	7.9	7.9	23.8	23.8	93.3	93.4	7.3		0.9		4			
					Surface	1.0	0.2	79	20.8	20.8	7.9	7.9	23.7	23.8	93.4	93.4	7.3	7.2	0.9	1	5			
IM10	Misty	Moderate	10:45	9.0	Middle	4.5	0.1	67	20.9	20.9	7.9	7.9	27.7	27.7	92.6	92.3	7.0	1.2	1.9	2.1	4	4	822226	809823
IIVITO	iviisty	Woderate	10.43	9.0	ivildale	4.5	0.1	66	20.9	20.9	7.9	7.5	27.7	21.1	92.0	92.3	7.0		1.8	2.1	5	4	022220	009023
					Bottom	8.0	0.2	102	20.9	20.9	7.9	7.9	27.8	27.7	92.9	93.1	7.0	7.1	3.5		2			
					Dottom	8.0	0.2	94	20.9	20.9	7.9	7.5	27.7	21.1	93.3	93.1	7.1	7.1	3.4		3			
					Surface	1.0	0.2	91	20.9	20.9	7.9	7.9	27.8	27.9	94.2	94.2	7.1		1.9		4			
					Odiface	1.0	0.2	95	20.9	20.9	7.9	7.5	27.9	21.5	94.2	34.2	7.1	6.9	1.9		4			
IM11	Misty	Moderate	10:51	8.2	Middle	4.1	0.2	67	20.8	20.8	7.9	7.9	28.1	28.2	88.9	88.9	6.7	0.5	3.8	3.5	4	5	821517	810523
	whoty	Wioderate	10.01	0.2	Iviidalo	4.1	0.2	60	20.8	20.0	7.9	7.0	28.2	20.2	88.8	00.0	6.7		3.8	0.0	5	Ü	021017	010020
					Bottom	7.2	0.1	59	20.8	20.8	7.9	7.9	28.5	28.5	90.0	90.1	6.8	6.8	4.8		5			
					Bottom	7.2	0.1	55	20.8	20.0	7.9	7.0	28.5	20.0	90.1	00.1	6.8	0.0	4.8		6			
					Surface	1.0	0.2	79	21.0	21.0	8.0	8.0	28.6	28.7	98.7	97.5	7.4		2.9		4			
						1.0	0.2	71	20.9	20	8.1	0.0	28.7		96.2	01.0	7.3	7.1	2.9		4			
IM12	Misty	Moderate	10:57	6.4	Middle	3.2	0.2	96	20.7	20.7	7.9	7.9	28.9	28.9	91.7	91.7	6.9		3.9	3.9	5	5	821148	811534
2	moty	moderate	10.01	0	- Inidaio	3.2	0.2	91	20.6	20.1	7.9		28.9	20.0	91.6	0	6.9		3.9	1 0.0	5	ŭ	021110	011001
					Bottom	5.4	0.2	105	20.5	20.5	7.9	7.9	29.7	29.7	87.4	88.2	6.6	6.7	4.9		5			
						5.4	0.2	110	20.5		7.9		29.7		88.9		6.7		4.8		5			
					Surface	1.0	0.0	31	20.9	20.9	8.0	8.0	26.9	26.9	94.4	94.5	7.2		3.7		5			
						1.0	0.0	34	20.9		8.1		26.9		94.6		7.2	7.2	3.8	4	5			
SR1A	Misty	Moderate	11:17	5.6	Middle	2.8	-	50	-	-		-	-	-	-	-	-		-	3.9	-	5	819975	812654
	,					2.8	0.0	50	-				-		-		-		-	4	-			
					Bottom	4.6	0.0	37	20.9	21.0	8.0	8.0	26.6	26.6	93.3	93.6	7.1	7.1	4.1	4	4			
						4.6	-	41	21.0		8.1		26.6		93.8		7.1		4.1		4			
					Surface	1.0	0.1	38	20.9	20.9	8.1	8.0	29.0	29.3	96.2	96.1	7.2		1.1	4	4			
						1.0	0.2	34	20.9		8.0		29.6		96.0		7.2	7.2	1.1		5			
SR2	Misty	Moderate	11:27	5.2	Middle	-	0.2	55	-	-	-	-	-	-	-	-	-		-	1.5	-	3	821446	814166
						4.2	0.2	61 62	20.9		- 0.4		29.6		- 02.2		- 7.0		1.9	-	2			
					Bottom	4.2	0.2	57	20.9	20.9	8.1	8.0	28.9	29.2	93.3	93.9	7.0 7.1	7.1	2.0	-	2			
						1.0	0.2	104	20.9		8.1		26.5				6.8		2.0	1	10			
					Surface	1.0	0.1	98	21.5	21.5	8.1	8.1	26.5	26.5	89.8 89.8	89.8	6.8		2.7	1	11			
						4.3	0.1	113	21.3		8.1		28.5				6.7	6.8	3.9	1	11			
SR3	Cloudy	Moderate	11:20	8.5	Middle	4.3	0.2	118	21.3	21.3	8.1	8.1	28.6	28.5	89.6 89.7	89.7	6.7		4.0	5.4	12	11	822136	807557
						7.5	0.1	121	21.3		8.0		29.3		91.2		6.8		9.4	1	12			
					Bottom	7.5	0.1	115	21.2	21.2	8.0	8.0	29.3	29.3	91.2	91.2	6.8	6.8	9.4	1	11			
				1		1.0	0.0	326	21.5		8.1		30.1		94.2		7.0		5.4	1	4			
					Surface	1.0	0.0	327	21.5	21.5	8.1	8.1	30.1	30.1	94.1	94.2	7.0		5.5	1	4			
						4.2	-	326	21.3		8.1		30.2		92.6		6.9	7.0	7.0	1	5			
SR4A	Cloudy	Moderate	12:54	8.4	Middle	4.2	0.0	330	21.3	21.3	8.1	8.1	30.2	30.2	92.6	92.6	6.9		7.0	6.6	4	5	817168	807811
					5."	7.4	0.0	335	21.3	04.0	8.1		30.3		92.5		6.9		7.2	1	5			
					Bottom	7.4	0.1	339	21.3	21.3	8.1	8.1	30.2	30.2	92.5	92.5	6.9	6.9	7.3	1	5			
					01	1.0	-	-	21.0	04.0	8.0	0.0	27.8	07.0	99.5	00.0	7.5		2.7	İ	4			
					Surface	1.0	-	-	21.0	21.0	8.0	8.0	27.8	27.8	99.6	99.6	7.5		2.6	1	5			
000			44.00		A4: - "	-	-	-	-		-		-		-		-	7.5	-	1	-	,	000070	04:000
SR8	Misty	Moderate	11:02	4.8	Middle	-	-	-	-	-	-	1 -	-	-	-	-	-		-	3.1	-	4	820373	811603
					Datters	3.8	-	-	21.0	24.0	8.1	0.0	27.8	27.0	97.4	07.7	7.4	7.4	3.6	1	4			
					Bottom	3.8	-	-	21.0	21.0	8.0	8.0	27.8	27.8	98.0	97.7	7.4	7.4	3.6	1	3			
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Water Quality Monitoring Results on 04 April 23 during Mid-Flood Tide

water Qua	ity wonit	oning Kesu	1115 011		04 April 23	auring Mia-	rioou ii	ue																
Monitoring	Weather	Sea	Sampling	Water	Sampling Dep	th (m)	Current Speed	Current	Water Te	emperature (°C)	p	Н	Salin	ity (ppt)	DO S	aturation (%)	Disso		Turbidity	/(NTU)	Suspende (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling Dep	tn (m)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					0(	1.0	0.2	32	21.3	04.0	8.1	0.4	30.3	00.0	94.1	04.4	7.0		8.2	Ì	4			
					Surface	1.0	0.2	26	21.3	21.3	8.1	8.1	30.3	30.3	94.1	94.1	7.0		8.2		5			
			05.45			4.2	0.2	32	21.3		8.1		30.3		93.9		7.0	7.0	9.3		5	_	0.45000	001050
C1	Cloudy	Moderate	05:47	8.3	Middle	4.2	0.2	26	21.3	21.3	8.1	8.1	30.3	30.3	94.0	94.0	7.0		9.3	9.0	4	5	815600	804252
					5	7.3	0.2	26	21.3		8.0		30.3		94.4	0.4.5	7.0		9.5		5			
					Bottom	7.3	0.2	25	21.3	21.3	8.0	8.0	30.3	30.3	94.5	94.5	7.0	7.0	9.4		4			
					0(	1.0	0.3	1	21.4	04.4	8.1	0.4	27.0	07.0	88.2	88.2	6.7		3.2		11			
					Surface	1.0	0.3	4	21.4	21.4	8.1	8.1	27.0	27.0	88.2	88.2	6.7	6.7	3.2		11			
C2	Cloudy	Moderate	07:14	12.4	Middle	6.2	0.3	334	21.2	21.2	8.1	8.1	29.8	29.8	87.8	87.8	6.6	6.7	3.8	3.6	11	11	825700	806923
C2	Cloudy	Moderate	07:14	12.4	ivildale	6.2	0.3	335	21.2	21.2	8.1	8.1	29.8	29.8	87.8	87.8	6.6		3.8	3.6	12	11	825700	806923
					Bottom	11.4	0.3	340	21.2	21.2	8.1	8.1	30.0	30.0	87.7	87.7	6.5	6.5	3.9		11			
					BULUIII	11.4	0.4	337	21.2	21.2	8.1	0.1	30.0	30.0	87.7	07.7	6.5	6.5	4.0		12			
					Surface	1.0	0.5	264	21.2	21.2	8.0	8.0	29.9	29.9	93.6	93.5	7.0		1.0		4			
					Sulface	1.0	0.4	257	21.2	21.2	8.0	0.0	29.9	25.5	93.4	93.3	7.0	6.9	1.1		3			
C3	Misty	Moderate	07:09	9.0	Middle	4.5	0.4	278	21.2	21.2	8.0	8.0	31.3	31.4	93.5	92.5	6.9	0.5	1.1	1.5	4	4	822104	817783
00	Wiloty	Moderate	07.00	0.0	Middle	4.5	0.4	282	21.2	21.2		0.0	31.4	01.4	91.5	02.0	6.8		1.1	1.0	4	-	022104	017700
					Bottom	8.0	0.4	277	21.2	21.2	8.0	8.0	31.7	31.6	92.4 92.2	92.3	6.8	6.8	2.4		4			
					Bottom	8.0	0.4	280	21.2	22		0.0	31.6	00		02.0	6.8	0.0	2.4		4			
					Surface	1.0	0.1	22	21.3	21.3	8.2	8.2	30.4	30.4	96.2 96.2	96.2	7.1		6.2		5			
						1.0	0.1	24	21.3		8.2		30.4				7.1	7.1	6.2		4			
IM1	Cloudy	Moderate	06:10	6.6	Middle	3.3	0.2	6	21.3	21.3	8.1	8.1	30.5	30.5	95.9	95.9	7.1		7.7	7.5	5	5	818340	806463
	,					3.3	0.2	7	21.3		8.1		30.5		95.9		7.1		7.8	-	6			
					Bottom	5.6	0.1	12	21.3	21.3	8.1	8.1	30.5	30.5	95.6 95.6	95.6	7.1	7.1	9.0	-	6			
						5.6	0.1	6 351	21.3		8.1		30.5				7.1		8.3		6			
					Surface	1.0	0.1	351	21.3 21.3	21.3	8.2 8.2	8.2	30.4	30.4	95.6 95.6	95.6	7.1		8.2	-	8 7			
						3.5	0.1	353 354	21.3								7.1	7.1	8.3 8.5	-				
IM2	Cloudy	Moderate	06:16	7.0	Middle	3.5	0.2	355	21.3	21.3	8.2 8.2	8.2	30.4	30.4	95.5 95.6	95.6	7.1 7.1		8.4	8.1	6 7	7	819193	806247
						6.0	0.1	1	21.3				30.4				7.1		7.5	-	5			
					Bottom	6.0	0.1	358	21.3	21.3	8.2 8.2	8.2	30.4	30.4	95.8 95.8	95.8	7.1	7.1	7.5	-	6			
						1.0	0.1	331	21.4		8.2		26.3		94.0		7.1		4.5	1	5			
					Surface	1.0	0.1	333	21.4	21.4	8.2	8.2	26.3	26.3	94.0	94.0	7.1		4.6	1	4			
						4.0	0.1	332	21.2		8.2		29.6		93.7		7.0	7.1	5.8	1	6			
IM7	Cloudy	Moderate	06:35	8.0	Middle	4.0	0.2	325	21.2	21.2	8.2	8.2	29.6	29.6	93.6	93.7	7.0		5.7	6.3	5	5	821328	806840
					5 "	7.0	0.2	325	21.2		8.0		29.9		93.4		7.0		8.2	1	6			
					Bottom	7.0	0.2	326	21.2	21.2	8.0	8.0	29.9	29.9	93.5	93.5	7.0	7.0	8.8	1	4			
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DA: Depth-Averaged

Water Quality Monitoring Results on 04 April 23 during Mid-Flood Tide

water Quai	ity Moille	orning inesu	iilə Uii		U4 April 23	auring Mia-	rioou ii	ue																
Monitoring	Weather	Sea	Sampling	Water	Sampling Dep	th (m)	Current Speed	Current	Water Te	emperature (°C)		рН	Salin	ity (ppt)		aturation (%)	Disso Oxy		Turbidity	(NTU)	Suspende (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling Dep	ui (iii)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.3	301	20.9	20.9	7.9	7.9	29.6	29.7	91.9	91.9	6.9		1.1		3			
					Surface	1.0	0.2	307	20.9	20.9	7.9	7.5	29.7	25.1	91.9	31.3	6.9	6.9	1.1		3			
IM10	Misty	Moderate	08:23	9.2	Middle	4.6	0.3	283	20.9	20.9	7.9	7.9	27.5	27.5	90.9	90.8	6.9	6.9	1.9	2.0	4	4	822228	809842
IIVITO	iviisty	Woderate	00.23	5.2	Middle	4.6	0.3	289	20.9	20.9	7.9	7.5	27.5	21.5	90.7	90.0	6.9		1.9	2.0	3	4	022220	009042
					Bottom	8.2	0.3	288	20.8	20.8	7.9	7.9	27.9	27.8	88.2	88.9	6.7	6.8	2.8		4			
					Bottom	8.2	0.2	289	20.8	20.0	7.9	7.5	27.8	21.0	89.5	00.5	6.8	0.0	2.9		5			
					Surface	1.0	0.4	269	20.7	20.7	7.9	7.9	27.9	27.8	90.8	90.7	6.9		2.9		3			
					Curiace	1.0	0.4	268	20.7	20.7	7.9	7.0	27.8	27.0	90.6	50.7	6.9	6.9	2.9		4			
IM11	Misty	Moderate	08:16	8.0	Middle	4.0	0.4	301	20.7	20.7	7.9	7.9	28.5	28.6	90.5	90.7	6.9	0.0	3.9	3.9	3	4	821511	810530
	iviloty	Moderate	00.10	0.0	Iviidalo	4.0	0.4	301	20.7	20.7	7.9	7.0	28.6	20.0	90.8	50.7	6.9		3.9	0.5	4	7	021011	010000
					Bottom	7.0	0.4	271	20.7	20.7	7.9	7.9	29.1	29.1	94.4	94.5	7.1	7.1	4.9		4			
					20110111	7.0	0.4	269	20.7	20.1	7.9		29.1	20	94.6	00	7.1		4.9		4			
					Surface	1.0	0.4	293	21.0	21.0	8.0	8.0	27.7	27.8	90.2	90.1	6.8		1.0		3			
						1.0	0.4	292	20.9	21.0	8.0	0.0	27.9	27.0	90.0	00	6.8	6.8	1.0		4			
IM12	Misty	Moderate	08:09	9.0	Middle	4.5	0.3	281	20.6	20.6	7.9	7.9	28.9	29.0	88.5	88.5	6.7		2.6	2.2	3	4	821164	811530
2	····oty	moderate	00.00	0.0	madio	4.5	0.3	285	20.6	20.0	7.9		29.1	20.0	88.4	00.0	6.7		2.6		4	·	02.101	011000
					Bottom	8.0	0.3	276	20.6	20.7	7.9	7.9	29.4	29.3	82.4	82.7	6.2	6.3	3.0		4			
						8.0	0.3	282	20.8		7.9		29.3		83.0		6.3		3.1		4			
					Surface	1.0	0.0	181	21.2	21.3	8.0	8.0	28.1	28.2	97.4	96.2	7.3		3.2		4			
						1.0	0.0	175	21.3		8.0		28.3		95.0		7.1	7.2	3.2	Į.	5			
SR1A	Misty	Moderate	07:48	5.0	Middle	2.5	0.0	188	-	-	-	_		-	-	-	-		-	4.1	-	5	819982	812654
	,					2.5	0.0	182	-		-		-		-		-		-	l	-			
					Bottom	4.0	0.0	188	21.5	21.6	8.0	8.0	28.9	28.8	89.4	90.5	6.7	6.8	5.0	l	4			
						4.0	0.1	182	21.6		7.9		28.8		91.6		6.8		4.9		5			
					Surface	1.0	0.1	230	21.5	21.5	8.0	8.0	28.2	28.2	91.3	91.4	6.8		1.7	ł	5			
						1.0	0.1	224	21.5		8.0		28.2		91.4		6.8	6.8	1.7	ł	4			
SR2	Misty	Moderate	07:31	4.8	Middle	-	0.1	252 251	-	-	-	-	-	-	-	-	-		-	2.1	-	4	821480	814165
						3.8	0.1	251	21.5										2.6	ł	4			
					Bottom	3.8		242	21.5	21.5	8.0	8.0	29.8	29.8	92.4 93.6	93.0	6.8	6.9	2.6	ł	3			
						1.0	0.1	335	21.5								6.8		2.4		9			
					Surface	1.0	0.2	338	21.5	21.5	8.0	8.0	26.3 26.3	26.3	90.1	90.2	6.8		3.3	ł	9			
						4.3	0.3	338	21.3		8.1		28.6		90.2		6.8	6.8	7.2	ł	8			
SR3	Cloudy	Moderate	06:44	8.5	Middle	4.3	0.3	343	21.3	21.3	8.1	8.1	28.8	28.7	90.4	90.4	6.8		7.9	7.1	8	8	822156	807555
						7.5	0.3	343	21.3		8.1		29.2		90.4		6.7		10.7	ł	8			
					Bottom	7.5	0.3	342	21.3	21.3	8.1	8.1	29.2	29.2	90.2	90.3	6.8	6.8	10.7	ł	8			
						1.0	0.3	219	21.3				30.1						5.5		3			
					Surface	1.0	0.0	217	21.3	21.3	8.2	8.2	30.1	30.1	94.5	94.5	7.0 7.0		5.6		4			
						4.7	0.0	237	21.3		8.2	1	30.2		94.0		7.0	7.0	6.6	1	4			
SR4A	Cloudy	Moderate	05:22	9.4	Middle	4.7	0.0	241	21.3	21.3	8.2	8.2	30.2	30.2	94.0	94.0	7.0		6.6	6.6	5	4	817209	807829
						8.4	0.0	209	21.2		8.2		30.3		93.7		7.0		7.6		5			
					Bottom	8.4	0.1	209	21.2	21.2	8.2	8.2	30.3	30.3	93.8	93.8	7.0	7.0	7.6		5			
			1	1		1.0	-	-	21.2		8.0		27.7		91.3		6.9		1.8		4			
					Surface	1.0	-		21.2	21.2	8.0	8.0	27.7	27.7	91.4	91.4	6.9		1.8		3			
						-	_		-		-	1			-		-	6.9	-		-			
SR8	Misty	Moderate	08:04	5.2	Middle		-		-	-	<del>-</del>	-		-		-	-			2.3	-	4	820382	811614
					_	4.2	-	_	21.2		8.0	1	28.5		91.9		6.9		2.8		4			
					Bottom	4.2	_		21.2	21.2	8.0	8.0	28.3	28.4	91.8	91.9	6.9	6.9	2.9	i	4			
					I	7.4		_	41.4		0.0	l	20.0		91.0		0.0		2.3		_			

Water Quality Monitoring Results on 06 April 23 during Mid-Ebb Tide

water Quar	ity woint	oring Resu	ILS UII		06 April 23	auring Mia-	EDD HIGE	<del>:</del>															
Monitoring	Weather	Sea	Sampling	Water	Sampling Dept	h (m)	Current Speed	Current	Water Te	emperature (°C)	рН	Sali	nity (ppt)		aturation (%)	Disso Oxy		Turbidity	(NTU)	Suspender (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling Dept	()	(m/s)	Direction	Value	Average	Value Averag	e Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.3	200	21.8	21.8	7.9	28.6	28.6	95.6 95.5	95.6	7.1		7.2		5			
					Surface	1.0	0.3	198	21.8	21.0	7.9	28.6	20.0	95.5	93.0	7.1	7.1	7.2	1	6			
C1	Foggy	Moderate	13:16	8.4	Middle	4.2	0.3	197	21.6	21.6	7.9	29.2		95.9	96.0	7.1	7.1	7.8	7.5	6	6	815613	804236
O1	i oggy	Woderate	13.10	0.4	Middle	4.2	0.3	200	21.6	21.0	7.9	29.2	25.2	96.1	90.0	7.1		8.0	7.5	5	Ü	013013	004230
					Bottom	7.4	0.3	218	21.5	21.5	7.9	29.4	29.4	96.8 97.1	97.0	7.2	7.2	7.3		6			
					Dottom	7.4	0.3	211	21.5	21.0	7.9	29.4	23.4	97.1	37.0	7.2	7.2	7.4		6			
					Surface	1.0	0.1	119	21.7	21.7	7.9	24.5		90.2	90.2	6.9		3.9		6			
					Gunace	1.0	0.1	116	21.6	21.7	7.9	24.5		90.2	30.2	6.9	6.9	3.9		6			
C2	Foggy	Moderate	11:41	11.8	Middle	5.9	0.1	141	21.5	21.5	7.9	27.9		90.5	90.5	6.8	0.5	16.5	15.5	6	7	825704	806963
02	i oggy	Moderate	11.41	11.0	Middle	5.9	0.0	134	21.5	21.0	7.9	28.0			30.5	6.8		16.6	15.5	7	,	023704	000303
					Bottom	10.8	0.1	147	21.5	21.5	7.9	28.3		89.9 89.8	89.9	6.7	6.7	25.6		7			
					Bottom	10.8	0.1	147	21.5	21.0	7.9	28.3			00.0	6.7	0.7	26.5		8			
					Surface	1.0	0.4	65	21.8	21.8	8.0	27.4		89.7	89.7	6.7		2.1		4			
					Curidoc	1.0	0.4	60	21.8	21.0	8.0	27.4		89.7	00.1	6.7	6.7	2.2		4			
СЗ	Misty	Moderate	12:39	9.6	Middle	4.8	0.4	95	21.8	21.8	8.0	27.6	27.6	90.0	90.1	6.7	0.7	3.7	3.3	4	4	822108	817817
00	iviloty	Moderate	12.00	5.0		4.8	0.4	94	21.7	21.0	8.0	27.7			50.1	6.8		3.6	0.0	5	-	022100	017017
						8.6	0.4	90	21.7	21.8	8.0 7.9	28.3	28.2	91.2 91.3	91.3	6.8	6.8	4.2		3			
					Bottom	8.6	0.4	93	21.8	21.0	7.9	28.1		•	31.0	6.8	0.0	4.3		4			
					Surface	1.0	0.2	169	21.9	21.9	7.9 7.9	27.9	27.9	94.5	94.5	7.1		5.8		5			
					Curidoc	1.0	0.2	164	21.9	21.0	7.9	27.9	27.0	94.5	04.0	7.1	7.1	5.8		4			
IM1	Foggy	Moderate	12:51	6.7	Middle	3.4	0.2	178	21.5	21.5	7.9 7.9	29.1	29.1	93.8	93.9	7.0		4.3	4.8	6	5	818334	806434
	33)					3.4	0.2	181	21.5		7.9	29.1				7.0		4.5		5			
					Bottom	5.7	0.2	199	21.5	21.5	7.9 7.9	29.4		95.7	95.8	7.1	7.1	4.1		5			
						5.7	0.1	205	21.5		7.9	29.4		95.9		7.1		4.3		6			
					Surface	1.0	0.2	175	21.7	21.7	7.9 7.9	28.5		95.3	95.3	7.1		6.7	1	6			
						1.0	0.1	171	21.7		7.9	28.6		95.2		7.1	7.1	6.7	4	6			
IM2	Foggy	Moderate	12:47	6.9	Middle	3.5	0.1	174	21.5	21.5	7.9 7.9	29.2	29.3	95.4 95.5	95.5	7.1		6.5	7.9	6	6	819166	806225
	00,					3.5	0.2	173	21.5		7.9	29.3				7.1		6.6	4	5			
					Bottom	5.9	0.2	184	21.4	21.4	7.9	29.6	29.7	95.7	95.8	7.1	7.1	10.8		7			
						5.9	0.1	186	21.4		7.9	29.7		95.9		7.1		10.4		6			
					Surface	1.0	0.1	85	21.6	21.6	7.9 7.9	26.2		93.9	94.0	7.1		9.8	4	6			
						1.0	0.2	78	21.6		7.9	26.2		94.0		7.1	7.1	10.0	4	6			
IM7	Foggy	Moderate	12:11	8.0	Middle	4.0	0.2	81	21.6	21.6	7.9 7.9	28.5	28.5	94.9 95.0	95.0	7.1		11.8	12.0	6	6	821345	806846
						4.0	0.2	81	21.6		7.9	28.5				7.1		12.1	4	6			
					Bottom	7.0	0.2	76	21.6	21.6	7.9 7.9	28.7		95.4	95.5	7.1	7.1	14.2	4	6			
DA: Dooth Aver					1	7.0	0.2	74	21.6		7.9	28.7		95.6		7.1		14.5		6			

DA: Depth-Averaged

Water Quality Monitoring Results on 06 April 23 during Mid-Ebb Tide

Water Quar	,	<u>-</u>			00 April 23	during wid-																		
Monitoring	Weather	Sea	Sampling	Water	Compline Dest	h (m)	Current Speed	Current	Water Te	emperature (°C)	pН		Salinity (	ppt)		aturation %)	Disso 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 Avera	age Va	alue Av	erage	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
İ			Ì		Curtosa	1.0	0.1	80	22.1	22.4	8.0	. 20	26.9	20.0	91.0	04.0	6.8		4.1		4			
					Surface	1.0	0.2	84	22.1	22.1	8.0		26.9	26.9	90.9	91.0	6.8		4.2	1	5			
IM10	Misty	Moderate	11:35	9.0	Middle	4.5	0.1	76	22.1	22.1	8.0	2	27.0	27.0	91.0	91.0	6.8	6.8	5.2	5.2	5	5	822230	809821
IIVI I U	iviisty	Moderate	11.33	9.0	Middle	4.5	0.1	82	22.1	22.1	8.0	2	27.0	27.0	91.0	91.0	6.8		5.3	5.2	5	5	022230	009021
					Bottom	8.0	0.1	83	22.1	22.1	7.9 7.9	2	27.0	27.0	91.1	91.1	6.8	6.8	6.1		6			
					Bottom	8.0	0.1	89	22.1	22.1	7.9	2	27.0	27.0	91.0	31.1	6.8	0.0	6.2		6			
					Surface	1.0	0.2	83	21.9	21.9	8.0		27.3		89.7	89.7	6.7		3.7		5			
					Canaco	1.0	0.2	90	21.9	21.0	8.0	27	27.4		89.7	00	6.7	6.7	3.6		5			
IM11	Misty	Moderate	11:41	7.8	Middle	3.9	0.2	85	21.9	21.9	8.0		27.4		89.8	89.8	6.7	0	4.8	4.7	5	5	821503	810555
						3.9	0.2	89	21.9		8.0	2	27.4		89.8		6.7		4.8	1	4	-	02.000	
					Bottom	6.8	0.1	94	21.9	21.9	8.0		27.3		90.2	90.3	6.7	6.7	5.6	_	5			
						6.8	0.1	93	21.9		8.0	27	27.3		90.3		6.7		5.6		4			
					Surface	1.0	0.2	102	22.0	22.0	8.1		25.0	25.0	90.3	90.4	6.8		3.0	4	4			
						1.0	0.2	108	22.0		8.1	_	25.0		90.4		6.8	6.8	3.1	4	4			
IM12	Misty	Moderate	11:47	7.0	Middle	3.5	0.2	100	22.2	22.3	8.1	) —	27.1	27.1	90.4	90.5	6.7		4.3	4.2	4	4	821167	811527
	·					3.5	0.2	97	22.3		8.0	_	27.1		90.5		6.7		4.3	-	4			
					Bottom	6.0	0.2	102 102	22.4 22.5	22.5	8.0		26.9 26.8	26.9	91.0	91.2	6.8	6.8	5.1 5.1	-	5 4			
						1.0	0.2	42						-					5.1		5			
					Surface	1.0	0.0	38	22.2 22.2	22.2	8.0		25.9 26.0	26.0	90.5	90.5	6.8		5.2	-	4			
						2.9	0.0	49	-		-		-	-	90.4		-	6.8	- 5.2	-	-			
SR1A	Misty	Moderate	12:07	5.8	Middle	2.9	0.0	52	-	-	-		-	-  -	-	-	-			5.8	-	5	819983	812658
						4.8	0.0	29	22.1		7.0	26	26.0		90.4		6.8		6.4	1	5			
					Bottom	4.8	0.0	21	22.1	22.1	7.9		26.8	26.9	90.4	90.3	6.7	6.8	6.5	1	4			
						1.0	0.3	35	22.1		8.0	26	26.9		91.7		6.9		5.3		5			
					Surface	1.0	0.3	37	22.1	22.1	8.0		26.9		91.7	91.7	6.9		5.4	1	4			
						-	0.2	66			-		-		-		-	6.9	-	1	-	_		
SR2	Misty	Moderate	12:18	5.2	Middle	-	0.2	72	-	-	-		-	-	-	-	-		-	5.7	-	5	821478	814176
					5 "	4.2	0.2	65	22.1		7.9	. 2	27.0		92.4		6.9		6.1	1	4			
					Bottom	4.2	0.2	62	22.1	22.1	7.9	26	26.8	26.9	92.3	92.4	6.9	6.9	6.2	1	5			
					Surface	1.0	0.1	114	21.5	21.5	7.8	2	25.2	25.0	87.9	87.9	6.7		6.9		5			
					Surface	1.0	0.0	117	21.5	21.5	7.8	2	25.2	25.2	87.9	87.9	6.7	6.7	7.2	1	5			
SR3	Foggy	Moderate	12:04	8.7	Middle	4.4	0.1	100	21.4	21.4	7.8	2	27.5	27.5	88.0	88.0	6.6	0.7	9.2	8.7	4	6	822144	807587
SINS	Foggy	Wioderate	12.04	0.7	Middle	4.4	0.2	102	21.4	21.4	7.8	2	27.6	27.5	88.0	00.0	6.6		9.2	0.7	6	O	022144	001301
					Bottom	7.7	0.1	94	21.4	21.4	7.8		27.7		88.2	88.2	6.6	6.6	10.0		7			
					Bottom	7.7	0.1	95	21.4	21.7	7.8	2	27.7	-1.1	88.2	00.2	6.6	0.0	9.6		6			
					Surface	1.0	0.0	11	21.7	21.7	7.9		28.7		92.5	92.5	6.9		9.7		4			
					55.1000	1.0	0.1	5	21.7		7.9	28	28.8		92.4	02.0	6.9	6.9	9.9		4			
SR4A	Foggy	Moderate	13:44	8.6	Middle	4.3	0.0	3	21.6	21.6	7.9 7.9		28.9		92.3	92.4	6.9		10.7	10.5	4	4	817207	807804
<del>-</del>	- 55)					4.3	0.0	9	21.6		7.9	28	28.9		92.4		6.9		10.8	1	5	•		
					Bottom	7.6	0.0	26	21.6	21.6	7.9	1	28.9	28.9	92.5	92.6	6.9	6.9	10.8	4	4			
			<u> </u>			7.6	0.0	20	21.6		7.9	28	28.9		92.6		6.9		10.9	<u> </u>	4			
					Surface	1.0	-	-	22.3	22.3	8.0		25.5	25.6	90.8	90.8	6.8		5.6	4	4			
						1.0	-	-	22.3		8.0		25.6		90.8		6.8	6.8	5.6	4	4			
SR8	Misty	Moderate	11:52	4.2	Middle	-	-	-	-	-	-		-	-  -	-	-	-		-	5.8	-	5	820402	811609
	-					-	-		- 22.4		- 7.0		-	+	-		-		- 0.4	4	-			
					Bottom	3.2	-	-	22.1 22.1	22.1	7.9		26.5 26.4	26.5	90.5	90.3	6.8	6.8	6.1	4	5 6			
					1	3.2	-	-	22.1		7.9	26	20.4		90.1		b./		6.2		ь			

Water Quality Monitoring Results on 06 April 23 during Mid-Flood Tide

Manifesian	Weather	Sea	Sampling	Water	00 April 23	during wild-	Current		Water Te	emperature (°C)		pН	Salir	nity (ppt)	DO S	aturation	Disso		Turbidity	(NTU)	Suspende		Coordinate	Coordinate
Monitoring Station					Sampling Dept	th (m)	Speed	Current Direction		, , , , ,				1		(%)	Oxy	gen	,	<u> </u>	(mg/	L)	HK Grid	HK Grid
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)
					Surface	1.0	0.4	33	21.7	21.7	8.0	8.0	28.2	28.2	94.4	94.4	7.1		6.4		5			
					Odnace	1.0	0.4	38	21.7	21.7	8.0	0.0	28.2	20.2	94.4	34.4	7.0	7.0	6.5		5			
C1	Foggy	Moderate	07:12	8.6	Middle	4.3	0.4	40	21.5	21.5	8.0	8.0	29.0	29.0	93.7	93.7	7.0	7.0	9.5	10.1	4	5	815642	804248
01	ı oggy	Moderate	07.12	0.0	Wildele	4.3	0.4	44	21.5	21.0	8.0	0.0	29.0	20.0	93.6	50.7	7.0		9.7	10.1	5	Ü	010042	00-12-10
					Bottom	7.6	0.4	36	21.4	21.4	8.0	8.0	29.4	29.4	93.5 93.5	93.5	7.0	7.0	13.8		4			
					Bottom	7.6	0.4	40	21.4	21	8.0	0.0	29.4	20.4		50.0	7.0	7.0	14.8		4			
					Surface	1.0	0.5	0	21.6	21.6	7.9	7.9	24.6	24.6	91.1 91.2	91.2	7.0		4.0		5			
					Cundoo	1.0	0.5	359	21.6	21.0	7.9		24.6	20		02	7.0	7.0	4.0		6			
C2	Foggy	Moderate	08:46	12.4	Middle	6.2	0.4	2	21.5	21.5	7.9	7.9	28.0	28.0	92.9	93.0	7.0		18.8	30.1	5	5	825692	806963
	- 337					6.2	0.4	359	21.5		7.9		28.0		93.1		7.0		19.5		5			
					Bottom	11.4	0.4	344	21.5	21.5	7.9	7.9	28.1	28.1	94.0	94.1	7.0	7.1	71.7		5			
						11.4	0.4	339	21.5				28.1				7.1		62.9		4			
					Surface	1.0	0.5 0.5	259 256	21.6 21.6	21.6	8.1	8.0	28.9	28.9	87.8 87.8	87.8	6.5 6.5		1.3	-	- 8 - 7			
						5.4	0.5	247	21.6								6.5	6.5	1.2					
C3	Misty	Moderate	07:31	10.8	Middle	5.4	0.5	239	21.6	21.6	8.0	8.0	28.9	29.0	87.9 87.8	87.9	6.5		2.1	2.2	6	6	822099	817795
						9.8	0.5	270	21.5		8.0		29.3				6.6		3.1	-	5			
					Bottom	9.8	0.5	268	21.5	21.5	8.0	8.0	29.2	29.3	88.0 88.5	88.3	6.6	6.6	3.1		6			
						1.0	0.3	9	21.6		8.0		27.9		94.0		7.0		6.5		4			
					Surface	1.0	0.3	7	21.6	21.6	8.0	8.0	28.1	28.0	93.8	93.9	7.0		6.7		4			
18.44	F	Madagas	07.00	0.0	NAC-1-III-	3.3	0.2	7	21.4	04.4	8.0	0.0	29.6	00.0	92.8	92.8	6.9	7.0	9.9		4	-	040050	000454
IM1	Foggy	Moderate	07:39	6.6	Middle	3.3	0.2	12	21.4	21.4	8.0	8.0	29.6	29.6	92.8	92.8	6.9		10.0	8.9	5	5	818352	806454
					Bottom	5.6	0.3	39	21.4	21.4	8.0	8.0	29.6	29.6	93.0	93.1	6.9	6.9	10.4	1	5			
					DOLLOTT	5.6	0.3	35	21.4	21.4	8.0	6.0	29.6	29.0	93.1	93.1	6.9	6.9	10.3		6			
					Surface	1.0	0.2	1	21.7	21.7	8.0	8.0	27.8	27.8	94.8	94.8	7.1		6.7		3			
					Ounace	1.0	0.2	5	21.7	21.7	8.0	0.0	27.9	27.0	94.7	34.0	7.1	7.1	7.2		3			
IM2	Foggy	Moderate	07:42	6.7	Middle	3.4	0.2	15	21.5	21.5	8.0	8.0	29.3	29.3	94.6	94.7	7.1		10.0	9.4	3	4	819181	806225
	. 099)	moderate	011.12	0	madio	3.4	0.2	15	21.5	21.0	8.0	0.0	29.3	20.0	94.7	0	7.1		10.2		4		0.0.0.	000220
					Bottom	5.7	0.2	27	21.4	21.4	8.0	8.0	29.6	29.6	95.1	95.2	7.1	7.1	11.1		5			
						5.7	0.2	27	21.4		8.0		29.6		95.2		7.1		11.2		4			
					Surface	1.0	0.2	350	21.7	21.7	8.0	8.0	25.8	25.8	92.5 92.6	92.6	7.0		6.6	4	9			
						1.0	0.2	350	21.7		8.0		25.8				7.0	7.0	6.8	4	8			
IM7	Foggy	Moderate	08:03	7.6	Middle	3.8	0.2	355 354	21.6 21.6	21.6	7.9 7.9	7.9	27.8 27.8	27.8	93.1	93.2	7.0		10.8	10.5	7	7	821329	806844
						3.8 6.6	0.3	354 6	21.6				28.7						11.2 13.8	1	7			
					Bottom	6.6	0.2	4	21.6	21.6	7.9	7.9	28.7	28.6	94.4	94.5	7.1	7.1	13.8	-	5			
						0.0	U.Z	4	21.0		1.9		∠8.0		94.5	Í	7.1		13.9	1	0			

DA: Depth-Averaged

Water Quality Monitoring Results on 06 April 23 during Mid-Flood Tide

	,	oring Kesu			00 April 23	during wid-	11000 11	uc																
Monitoring	Weather	Sea	Sampling	Water	Complian Des	h (m)	Current Speed	Current	Water Te	emperature (°C)	pН		Salinit	ty (ppt)		aturation %)	Disso Oxyg		Turbidity	(NTU)	Suspender (mg/		Coordinate	Coordinate
Station	Condition	Condition	Time	Depth (m)	Sampling Dept	n (m)	(m/s)	Direction	Value	Average	Value Ave	rage \	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	HK Grid (Northing)	HK Grid (Easting)
					Curring	1.0	0.3	311	22.0	22.0	8.0	0	26.9	20.0	90.5	00.5	6.8		1.7		6			
					Surface	1.0	0.3	309	22.0	22.0	8.0		27.0	26.9	90.5	90.5	6.8		1.6	1	4			
IMAO	Minter	Madaust -	00.44	0.0	Middle	4.3	0.3	314	22.0	22.0	8.0	0	27.2	27.0	90.5	90.6	6.8	6.8	2.8	0.0	5	5	000000	000050
IM10	Misty	Moderate	08:44	8.6	Middle	4.3	0.3	319	22.0	22.0	8.0		27.3	27.2	90.6	90.6	6.8		2.7	2.8	5	5	822239	809852
					Dettern	7.6	0.4	273	21.9	24.0	7.9		27.3	27.3	91.0	91.1	6.8	6.8	3.9		4			
					Bottom	7.6	0.4	274	21.9	21.9	7.9	.9	27.3	21.3	91.1	91.1	6.8	0.8	4.0		5			
					0	1.0	0.4	275	22.3	00.0	7.9		26.3	00.4	90.2	90.3	6.8		3.9		4			
					Surface	1.0	0.3	280	22.2	22.3	7.9	.9	26.5	26.4	90.4	90.3	6.8	C 0	3.8		5			
IMAAA	Minter	Madausta	00.00	7.0	Middle	3.8	0.4	291	22.3	22.2	7.9	0	26.3	20.4	90.6	00.7	6.8	6.8	4.6	4.6	5	5	821505	810562
IM11	Misty	Moderate	08:38	7.6	Middle	3.8	0.4	294	22.2	22.3	7.9	.9	26.5	26.4	90.7	90.7	6.8		4.6	4.6	4	5	821505	810562
					Dettern	6.6	0.4	264	22.1	22.4	7.8		26.6	20.0	90.2	00.0	6.7	6.7	5.4		5			
					Bottom	6.6	0.4	257	22.1	22.1	7.8	.8	26.6	26.6	90.2	90.2	6.7	0.7	5.5		5			
					0	1.0	0.5	280	22.2	00.0	8.0		25.5	05.5	90.5	00.0	6.8		2.8		5			
					Surface	1.0	0.5	285	22.2	22.2	8.0		25.5	25.5	90.6	90.6	6.8	C 0	2.7		6			
IM12		Madaata	00.04	0.0	NAC-L-III-	4.0	0.4	291	22.2	00.0	8.0		25.5	05.0	90.6	00.7	6.8	6.8	3.7	0.0	6	•	004470	044505
IIVI12	Misty	Moderate	08:31	8.0	Middle	4.0	0.4	294	22.2	22.2	8.0	.0	25.6	25.6	90.8	90.7	6.8		3.9	3.6	6	6	821173	811505
					5	7.0	0.4	295	22.1		8.0		25.9	05.0	90.7		6.8		4.2		7			
					Bottom	7.0	0.4	296	22.2	22.2	7.9		25.8	25.9	90.8	90.8	6.8	6.8	4.2		6			
		<del>-   -   -  </del>			0 /	1.0	0.0	193	22.0	22.2	8.0		25.7	05.0	89.7		6.8		2.8		5			
					Surface	1.0	0.0	195	22.0	22.0	8.0		25.8	25.8	89.5	89.6	6.7		2.7		6			
0044		Madaata	00.00	4.0	NAC-L-III-	2.4	0.0	206	-		-		-		-		-	6.8	-	0.0	-	-	040070	040000
SR1A	Misty	Moderate	08:09	4.8	Middle	2.4	0.1	207	-	-	-		-	-	-	-	-		-	3.2	-	5	819973	812663
					Dettern	3.8	0.0	210	22.0	22.0	8.0		26.5	20.2	89.1	00.4	6.7	6.7	3.8		4			
					Bottom	3.8	0.0	212	22.0	22.0	8.0	.0	26.0	26.3	89.1	89.1	6.7	0.7	3.7		5			
					Surface	1.0	0.0	225	21.6	21.6	8.1 8	4	28.8	20.0	88.0	88.0	6.6		2.2		6			
					Surface	1.0	0.0	232	21.6	21.0	8.1		28.8	28.8	88.0	88.0	6.6	0.0	2.3		6			
CDO	Minter	Madausta	07.50	5.0	Mistalla	-	0.1	248	-		-		-		-		-	6.6	-	0.7	-	7	004.477	04.4475
SR2	Misty	Moderate	07:53	5.0	Middle	-	0.0	250	-	-	-		-	-	-	-	-		-	2.7	-	7	821477	814175
					Dettern	4.0	0.1	248	21.6	24.0	8.1	4	29.0	29.0	87.8	87.8	6.5	6.5	3.2		7			
					Bottom	4.0	0.2	251	21.6	21.6	8.1	.' -	29.0	29.0	87.8	87.8	6.5	0.0	3.2		7			
					Surface	1.0	0.3	356	21.5	21.5	7.9	.9	25.4	25.4	89.2	89.3	6.8		8.3		6			
					Surface	1.0	0.2	354	21.5	21.5	7.9	.9	25.4	25.4	89.4	89.3	6.8	6.8	8.7		6			
SR3	F	Madausta	00.00	9.2	Middle	4.6	0.3	326	21.5	24.5	7.9	0	27.8	27.9	90.8	90.9	6.8	0.0	11.0	11.2	6	6	822143	807588
SNS	Foggy	Moderate	08:09	9.2	ivildule	4.6	0.3	328	21.5	21.5	7.9	.9	27.9	21.9	91.0	90.9	6.8		11.4	11.2	5	O	022143	007368
					Bottom	8.2	0.3	352	21.5	21.5	7.9	.9	28.2	28.2	91.6	91.6	6.9	6.9	14.3		5			
					DULLUITI	8.2	0.3	349	21.5	21.0	7.9	.5	28.2	20.2	91.6	91.0	6.9	0.9	13.2		5			
					Surface	1.0	0.0	206	21.6	21.6	8.0	.0	28.6	29.6	92.6	02.6	6.9		9.2		4			
					Surface	1.0	0.0	200	21.6	21.0	8.0	.0	28.6	28.6	92.6	92.6	6.9	6.9	9.2		3			
SR4A	Focas	Moderate	06:44	9.0	Middle	4.5	0.0	175	21.6	21.6	8.0		28.8	28.8	92.5	92.5	6.9	0.9	10.0	10.5	5	4	817172	807809
OR4A	Foggy	wouerate	00:44	8.9	iviidale	4.5	0.1	170	21.6	∠1.0	8.0	.0	28.8	∠0.8	92.5	92.5	6.9		10.1	10.5	4	4	01/1/2	00/809
					Bottom	7.9	0.1	199	21.6	21.6	8.0		28.9	28.9	93.1	93.2	6.9	6.9	12.4		4			1
					DOLLOIT	7.9	0.1	200	21.6	21.0	8.0	.0	28.9	20.5	93.2	33.2	6.9	0.5	12.4		5			
					Surface	1.0	-	-	22.2	22.2	8.0	.0	26.5	26.5	93.0	93.1	6.9		3.6		5			
					Surface	1.0	-	-	22.2	~~.~	8.0	.0	26.5	20.0	93.1	3J. I	7.0	7.0	3.5		4			1
SR8	Micty	Moderate	08:26	5.4	Middle	-	-	-	-		-		-		-		-	7.0	-	3.8	-	4	820378	811617
SNO	Misty	wouerate	00.20	5.4	Middle	-	-	-	-		-		-		-				-	3.0	-	4	020376	011017
					Bottom	4.4	-	-	22.0	22.1	7.9	.9	27.0	26.9	91.5	91.1	6.8	6.9	4.1		4			
			L		DULLUITI	4.4	-	-	22.1	22.1	7.9	.5	26.7	20.9	90.7	91.1	6.9	0.9	4.2		4			

DA: Depth-Average

Water Quality Monitoring Results on 08 April 23 during Mid-Ebb Tide

water Qual	ity woint	oring Kesu	ILS UII		U8 April 23	auring Mia-	EDD HUG	<u> </u>																
Monitoring	Weather	Sea	Sampling	Water	Sampling Depti	- ()	Current Speed	Current	Water Te	emperature (°C)	рН	+	Salin	ity (ppt)		aturation %)		olved /gen	Turbidity	(NTU)	Suspende (mg		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling Depti	1 (111)	(m/s)	Direction	Value	Average	Value A	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.5	219	21.2	24.2	8.1	0.4	28.5	20.5	95.3	05.2	7.2		5.2		8			
					Surface	1.0	0.4	220	21.2	21.2	8.1	8.1	28.5	28.5	95.3	95.3	7.2	7.2	5.2		7			
C4	Claudu	Davish	44.40	7.0	Middle	3.7	0.5	205	21.2	21.2	8.1	8.1	28.5	28.5	94.4	94.4	7.1	7.2	5.2	5.9	6	7	045000	004050
C1	Cloudy	Rough	14:42	7.3	Middle	3.7	0.5	199	21.2	21.2	8.1	8.1	28.5 28.5	28.5	94.4	94.4	7.1		5.2	5.9	6	1	815636	804252
					Datters	6.3	0.5	215	21.2	21.2	8.2	8.2	31.1	31.1	94.3	94.3	7.0	7.0	7.3		7			
					Bottom	6.3	0.5	222	21.2	21.2	8.2	8.2	31.1	31.1	94.3	94.3	7.0	7.0	7.4		6			
					Surface	1.0	0.2	165	21.4	21.4	8.0	8.0	26.3	26.3	90.4	90.4	6.9		3.7		5			
					Surface	1.0	0.2	168	21.4	21.4	8.0	8.0	26.3	26.3	90.4	90.4	6.9	6.9	3.7		5			
C2	Claudu	Davish	12:44	0.4	Middle	4.6	0.2	172	21.4	21.4	8.0	8.0	26.6	26.6	89.8	89.8	6.8	6.9	4.4	5.5	5	5	825696	806932
C2	Cloudy	Rough	12:44	9.1	ivildale	4.6	0.2	166	21.4	21.4	8.0	8.0	26.7	20.0	89.8	89.8	6.8		4.4	5.5	5	э	823696	806932
					Dettern	8.1	0.2	163	21.4	21.4	8.0	8.0	27.5	27.5	89.7	89.7	6.8	6.8	8.4		6			
					Bottom	8.1	0.2	158	21.4	21.4	8.0	8.0	27.5	27.5	89.7	89.7	6.8	0.8	8.4		5			
					Surface	1.0	0.5	77	21.6	21.6	8.0	8.0	29.0	29.1	86.4	86.4	6.4		4.3		3			
					Surface	1.0	0.5	83	21.6	21.0	8.0	8.0	29.0	29.1	86.4	86.4	6.4	6.4	4.4		3			
С3	Fine	Madazata	13:35	10.8	Middle	5.4	0.4	78	21.6	21.6	8.0	8.0	29.5	29.9	86.6	86.6	6.4	0.4	5.8	5.4	3	3	822118	817809
C3	rine	Moderate	13:35	10.8	ivildale	5.4	0.4	78	21.6	21.0	8.0	8.0	30.3	29.9	86.6	86.6	6.4		5.8	5.4	3	3	822118	817809
					Bottom	9.8	0.4	74	21.6	21.6	8.0	8.0	30.3	30.3	87.2	87.3	6.4	6.5	6.0		2			
					BUILUIII	9.8	0.4	68	21.6	21.0	8.0	0.0	30.3	30.3	87.3	67.3	6.5	6.5	6.0		2			
					Surface	1.0	0.3	200	21.1	21.1	8.1	8.1	28.0	28.0	94.9	94.9	7.2		3.9		4			
					Surface	1.0	0.4	205	21.1	21.1	8.1	0.1		20.0	94.8	34.3	7.2	7.1	3.9		4			
IM1	Cloudy	Rough	14:15	6.4	Middle	3.2	0.2	168	21.2	21.2	8.1	8.1	29.0	29.0	93.7	93.7	7.0	7.1	4.3	4.2	5	5	818371	806440
IIVIII	Cloudy	rtougii	14.15	0.4	Middle	3.2	0.3	164	21.2	21.2	8.1	0.1	28.9	25.0	93.6	33.7	7.0		4.5	7.2	4	3	010371	000440
					Bottom	5.4	0.2	182	21.2	21.2	8.2	8.2	30.9	30.9	93.7	93.7	6.9	7.0	4.1		6			
					Dottom	5.4	0.3	188	21.2	21.2	8.2	0.2	30.9	30.3	93.7	33.7	7.0	7.0	4.3		5			
					Surface	1.0	0.3	184	21.1	21.1	8.1	8.1	27.8	27.8	95.3	95.3	7.2		4.1		5			
					Carrace	1.0	0.3	191	21.1	21.1	8.1	0.1	27.8	27.0	95.3	00.0	7.2	7.1	4.2		5			
IM2	Cloudy	Rough	14:01	7.6	Middle	3.8	0.3	196	21.2	21.2	8.2	8.2	30.2	30.1	94.1	94.1	7.0	7.1	6.5	6.0	4	5	819182	806229
IIVIZ	Cloudy	rtougii	14.01	7.0	ivildale	3.8	0.3	201	21.2	21.2	8.2	0.2	30.1	30.1	94.1	34.1	7.0		6.5	0.0	5	3	013102	000223
					Bottom	6.6	0.2	189	21.2	21.2	8.2	8.2	31.3	31.3	93.6	93.6	6.9	6.9	7.2		4			
					Dottom	6.6	0.3	185	21.2	21.2	8.2	0.2	31.3	31.3	93.6	33.0	6.9	0.5	7.4		4			
					Surface	1.0	0.2	140	21.3	21.3	8.0	8.0	26.0	26.0	92.3	92.3	7.0		3.9		6			
					Guilace	1.0	0.2	141	21.3	21.5	8.0	0.0	26.0	20.0	92.3	32.3	7.0	7.0	3.9		6			
IM7	Cloudy	Rough	13:27	8.1	Middle	4.1	0.2	133	21.2	21.2	8.1	8.1	29.4	29.4	91.6	91.6	6.9	7.0	6.8	6.3	6	5	821330	806827
11417	Sidudy	rtougn	10.21	0.1	Middle	4.1	0.2	128	21.2	21.2	8.1	0.1	29.4	20.7	91.6	31.0	6.9		6.8	0.5	5	3	021000	000021
					Bottom	7.1	0.2	153	21.2	21.2	8.1	8.1	29.8	29.8	91.7	91.8	6.8	6.8	8.2		4			
					DOMOIT	7.1	0.2	160	21.2	21.2	8.1	0.1	29.8	25.0	91.8	31.0	6.8	0.0	8.2		3			
DA: Depth-Aver	anad																							

DA: Depth-Averaged

Water Quality Monitoring Results on 08 April 23 during Mid-Ebb Tide

Water Quar	,	g			06 April 23	during wid-																		
Monitoring	Weather	Sea	Sampling	Water	Sampling Dep	th (m)	Current Speed	Current	Water Te	emperature (°C)		рН	Salini	ity (ppt)		aturation (%)	Disso Oxy		Turbidity	/(NTU)	Suspende (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling Dep	ui (iii)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.3	94	21.7	21.7	8.0	8.0	25.7	25.8	91.8	91.8	6.9		2.3		4			
					Surface	1.0	0.3	93	21.7	21.7	8.0	8.0	25.9	25.8	91.8	91.8	6.9	6.9	2.3		3			
IM10	Fine	Moderate	12:37	9.4	Middle	4.7	0.2	82	21.7	21.7	8.0	8.0	26.9	26.9	91.9	91.9	6.9	6.9	4.8	4.2	4	4	822236	809846
IIVITO	Tille	Woderate	12.57	3.4	ivildale	4.7	0.2	85	21.7	21.7	8.0	0.0	26.9	20.9	91.9	31.3	6.9		4.6	4.2	3	4	022230	009040
					Bottom	8.4	0.3	92	21.7	21.7	7.9	7.9	28.2	28.2	92.0	92.0	6.9	6.9	5.7		4			
					Dollom	8.4	0.3	88	21.7	21.7	7.9	7.5	28.2	20.2	92.0	92.0	6.9	0.9	5.7		3			
					Surface	1.0	0.3	94	21.8	21.8	7.9	7.9	25.3	25.3	91.4	91.4	6.9		5.6		4			
					Odiface	1.0	0.2	96	21.8	21.0	7.9	7.5	25.3	20.0	91.4	31.4	6.9	6.9	5.6		3			
IM11	Fine	Moderate	12:44	7.6	Middle	3.8	0.3	68	21.8	21.8	7.9	7.9	25.8	26.5	91.5	91.5	6.9	0.5	6.5	6.4	4	4	821511	810557
	1 1110	Wioderate	12.44	7.0	Iviidalo	3.8	0.3	71	21.8	21.0	7.9	7.0	27.2	20.0	91.5	01.0	6.9		6.5	0.4	4	-	021011	010001
					Bottom	6.6	0.3	74	21.8	21.8	7.9	7.8	27.5	27.6	91.8	91.9	6.9	6.9	7.1		4			
					Bottom	6.6	0.3	74	21.8	21.0	7.8	7.0	27.7	21.0	92.0	01.0	6.9	0.0	7.1		4			
					Surface	1.0	0.3	106	21.9	21.9	7.9	7.9	26.4	26.5	88.4	88.5	6.6		2.6		2			
					Curiaco	1.0	0.3	108	21.9	21.0	7.9	7.0	26.5	20.0	88.5	00.0	6.7	6.7	2.5		3			
IM12	Fine	Moderate	12:51	7.2	Middle	3.6	0.3	76	21.9	21.9	7.9	7.9	26.9	27.1	88.8	88.9	6.7	0.,	3.1	3.5	4	3	821181	811505
2		moderate	.2.0		·····adio	3.6	0.4	75	21.9	20	7.9	7.0	27.3		88.9	00.0	6.7		3.1	0.0	3	ŭ	020.	0000
					Bottom	6.2	0.3	84	21.8	21.9	7.9	7.9	27.4	27.2	89.5	89.6	6.7	6.7	4.9		4			
					Dotto	6.2	0.3	81	21.9	20	7.9	7.0	27.1		89.7	00.0	6.7	0	5.0		4			
					Surface	1.0	0.0	75	21.9	21.9	8.0	8.0	26.5	26.5	88.4	88.4	6.6		2.8		4			
					Cundoo	1.0	-	75	21.9	20	8.0	0.0	26.5	20.0	88.4	00	6.6	6.6	2.8		3			
SR1A	Fine	Moderate	13:02	5.6	Middle	2.8	0.0	93	-	-	-	_	-	-	-	-	-		-	3.0	-	4	819982	812658
						2.8	0.1	86	-		-		-		-		-		-		-	•		
					Bottom	4.6	-	83	21.9	21.9	7.9	7.9	26.4	26.4	88.3	88.3	6.6	6.6	3.1		4			
						4.6	-	88	21.9		7.9	-	26.4		88.3		6.6		3.1		4			
					Surface	1.0	0.3	63	21.8	21.8	7.9	7.9	27.2	27.4	89.9	90.0	6.8		2.3		4			
						1.0	0.3	70	21.8		7.9		27.5		90.0		6.7	6.8	2.4		4			
SR2	Fine	Moderate	13:19	5.8	Middle	-	0.3	64	-	-	-	-	-	-	-	-	-		-	2.8	-	3	821463	814185
						-	0.2	61	-		-		-		-		-		-		-			
					Bottom	4.8	0.3	53	21.8	21.8	7.8	7.8	28.2	28.0	91.2	91.5	6.8	6.9	3.3		2			
						4.8	0.4	51	21.8		7.8		27.8		91.8		6.9		3.3		2			
					Surface	1.0	0.3	154	21.4	21.4	8.0	8.0	25.7	25.7	91.1	91.1	6.9		2.6	-	4			
						1.0	0.2	161	21.4		8.0		25.7		91.1		6.9	6.9	2.6		4			
SR3	Cloudy	Rough	13:17	8.3	Middle	4.2	0.3	153	21.3	21.3	8.0	8.0	27.5	27.5	90.4	90.4	6.8		7.2	6.5	4	4	822144	807568
						7.3	0.3	148 129	21.3		_				90.4		6.8		7.2 9.8	-	4			
					Bottom	7.3	0.3	130	21.2 21.2	21.2	8.1 8.1	8.1	29.3	29.3	92.7 92.7	92.7	6.9	6.9	9.8		4			
				l I		1.0	0.2	57	21.2										5.1		7			
					Surface	1.0	0.0	56	21.2	21.2	8.1 8.1	8.1	29.3	29.3	92.7 92.6	92.7	6.9		5.1	1	8			
						5.0	0.0	78	21.2		8.1		29.5		91.7		6.9	6.9	6.3	1	7			
SR4A	Cloudy	Moderate	15:09	9.9	Middle	5.0	0.0	82	21.2	21.2	8.1	8.1	29.5	29.5	91.7	91.7	6.9		6.3	7.0	7	7	817174	807816
						8.9	0.0	42	21.2		8.1		29.7		91.7		6.8		9.5	1	7			
					Bottom	8.9	0.0	49	21.3	21.3	8.1	8.1	29.7	29.7	91.0	91.0	6.8	6.8	9.5	1	6			
			<del>1</del>		<u> </u>	1.0	-	-	21.9		7.9		26.6		89.3		6.7		5.8	1	4			
					Surface	1.0	-	-	21.9	21.9	7.9	7.9	26.7	26.7	89.3	89.3	6.7		5.7	1	3			
						- 1.0	-		21.0		7.5		20.7		-		-	6.7	- 5.7	1	-			
SR8	Fine	Moderate	12:54	5.4	Middle		-		-	-	<del>-</del>	-	-	-		-				5.9	-	3	820371	811604
					_	4.4	-	-	21.9		7.9		27.0		90.7		6.8		6.1	1	2			
					Bottom	4.4	-		21.9	21.9	7.8	7.8	27.1	27.1	91.0	90.9	6.8	6.8	6.1	1	2			
A. Donth Avor				L		7.7	-	-	41.0		7.0	l	41.1		91.0		0.0		0.1	1				1

Water Quality Monitoring Results on 08 April 23 during Mid-Flood Tide

Monitoring	Weather	Sea	Sampling	Water	Complies Den	th (m)	Current Speed	Current	Water Te	emperature (°C)	pН		Salin	ity (ppt)		aturation %)	Disso	olved gen	Turbidity	(NTU)	Suspende (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling Dep	tn (m)	(m/s)	Direction	Value	Average	Value Ave	erage	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.2	17	21.1	21.1	8.1		27.7	27.7	94.6	94.6	7.2		5.7		7			
					Sulface	1.0	0.2	12	21.1	21.1	8.1	0.1	27.7	21.1	94.6	34.0	7.2	7.2	5.7		7			
C1	Cloudy	Rough	07:05	8.1	Middle	4.1	0.2	46	21.1	21.1	8.1		28.5	28.5	94.2	94.2	7.1	1.2	6.9	6.7	7	7	815638	804236
01	Cloudy	Rough	07.00	0.1	Wildale	4.1	0.2	48	21.1	21.1	8.1	0.1	28.5	20.5	94.2	34.2	7.1		7.0	0.7	6	,	013030	004230
					Bottom	7.1	0.2	24	21.1	21.1	8.1		29.1	29.1	94.9	95.0	7.1	7.1	7.3		6			
					Dottom	7.1	0.2	21	21.1	21.1	8.1	0.1	29.1	23.1	95.0	33.0	7.1	7.1	7.3		7			
					Surface	1.0	0.4	354	21.4	21.4	8.0	8.0	26.9	26.9	89.8	89.8	6.8		5.1		6			
					Curtaco	1.0	0.4	359	21.4	21.4	8.0		26.9	20.0	89.8	00.0	6.8	6.8	5.0		6			
C2	Cloudy	Rough	08:47	9.7	Middle	4.9	0.4	8	21.4	21.4	8.0		27.4	27.4	90.2	90.2	6.8	0.0	8.0	7.9	6	6	825678	806939
<u> </u>	,			• • • • • • • • • • • • • • • • • • • •		4.9	0.4	11	21.4		8.0		27.4		90.2		6.8		7.9	1	7		0_000	
					Bottom	8.7	0.4	0	21.3	21.3	8.1	8.1	28.9	28.9	91.0	91.1	6.8	6.8	10.7	_	6			
						8.7	0.3	5	21.3		8.1		28.9		91.1		6.8		10.7		7			
					Surface	1.0	0.5	261	21.6	21.6	8.1	8.1	29.9 30.0	29.9	86.4	86.4	6.4		2.6	4	5			
					Middle -	1.0 6.0	0.4	262	21.6		8.1				86.4		6.4	6.4	2.7	4	5			
C3	Fine	Moderate	07:55	12.0	Middle -	6.0	0.5 0.5	258 254	21.6 21.6	21.6	8.1	8.1	30.3	30.3	86.2 86.2	86.2	6.4		3.6	3.7	5 4	4	822109	817819
						11.0	0.5	236	21.6		8.0		30.5		86.4		6.4		5.1	-	4			
					Bottom -	11.0	0.5	241	21.6	21.6	8.0	8.0	30.5	30.5	86.4	86.4	6.4	6.4	5.0	1	3			
						1.0	0.2	29	21.1		Ω1		27.5		93.6		7.1		8.1		6			
					Surface	1.0	0.2	23	21.2	21.2	8.1		27.5	27.5	93.6	93.6	7.1		8.2	1	6			
						3.5	0.2	4	21.2		0.1		30.7		93.2		6.9	7.0	7.8	1	6	_		
IM1	Cloudy	Moderate	07:31	6.9	Middle	3.5	0.1	359	21.2	21.2	8.1	8.1	30.7	30.7	93.2	93.2	6.9		7.8	8.4	5	6	818341	806454
					D. II	5.9	0.1	3	21.2	21.2	8.1	0.4	31.0	04.0	93.3	00.0	6.9	0.0	9.2	1	6			
					Bottom	5.9	0.1	359	21.2	21.2	8.1	8.1	31.0	31.0	93.3	93.3	6.9	6.9	9.2	1	5			
					Surface	1.0	0.2	349	21.2	21.2	8.1	8.1	27.7	27.6	94.1	94.1	7.1		6.0		4			
					Surface	1.0	0.2	349	21.2	21.2	8.1	0.1	27.6	27.0	94.1	94.1	7.1	7.1	6.1	1	4			
IM2	Cloudy	Moderate	07:44	6.6	Middle	3.3	0.1	1	21.2	21.2	8.1		30.6	30.6	93.7	93.7	7.0	7.1	9.0	8.9	4	4	819202	806251
IIVIZ	Cloudy	Woderate	07.44	0.0	Wildale	3.3	0.1	357	21.2	21.2	8.1	0.1	30.7	30.0	93.7	33.7	7.0		9.1	0.3	4	7	013202	000251
					Bottom	5.6	0.1	325	21.2	21.2	8.1		31.0	31.0	94.2	94.2	7.0	7.0	11.6		5			
					20110111	5.6	0.1	322	21.2		8.1		31.0	01.0	94.2	02	7.0	7.0	11.7		4			
					Surface	1.0	0.2	334	21.3	21.3	8.0		26.3	26.3	92.5	92.5	7.0	]	3.1		5			
						1.0	0.3	340	21.3		8.0		26.3		92.4		7.0	7.0	3.1	4	4			
IM7	Cloudy	Rough	08:13	7.9	Middle	4.0	0.2	336	21.2	21.2	8.1	8.1	29.3 29.3	29.3	91.7	91.7	6.9		6.8	6.2	5	4	821343	806826
		Ü				4.0	0.2	335	21.2		8.1				91.7		6.9		6.8	4	4			
					Bottom	6.9	0.2	326	21.2	21.2	8.1	8.1	29.4	29.4	91.8	91.9	6.9	6.9	8.7	4	3			
						6.9	0.2	329	21.2		8.1		29.4		91.9		6.9		8.7	<u> </u>	4			

DA: Depth-Averaged

Water Quality Monitoring Results on 08 April 23 during Mid-Flood Tide

Marie   Mari	water Quai	ity wonit	oning Kesu	its on		U8 April 23	auring Mia-	-F1000 11	iue																
Secondary   Condition   Cond		Weather	Sea	Sampling	Water	Sampling Dan	th (m)		Current	Water Te	emperature (°C)		рН	Salin	ity (ppt)					Turbidity	(NTU)				Coordinate
Million   Fine   Moderate   Golde	Station	Condition	Condition	Time	Depth (m)	Sampling Dep	ın (m)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA		
Mill   Fine   Moderate   Modera						Curtosa	1.0	0.4	300	21.8	24.0	8.0	0.0	25.7	25.7	91.7	04.7	6.9		4.5		3			
Moderate   Pine   Moderate   Pine   Moderate   Pine   Moderate   Pine   Moderate   Pine   Moderate   Pine   Pine   Moderate   Pine   Pine   Moderate   Pine   Pine   Moderate   Pine   Pine   Pine   Moderate   Pine   Pi						Surface	1.0	0.4	303	21.8	21.8		8.0		25.7		91.7		0.0	4.4	1	3			
Mile   Mile	IM10	Fino	Madarata	00.06	0.0	Middle	4.5	0.3	303	21.7	24.7	7.9	7.0	27.6	27.2	92.1	02.1	6.9	6.9	6.6	6.0	3	2	92222	000000
Moderate   Moderate	IIVITO	FILLE	Widderate	09.06	9.0	ivildale	4.5	0.3	306	21.7	21.7	7.9	7.9	26.8	21.2	92.1	92.1	6.9		6.5	6.0	3	3	022222	009022
Mill   Fire   Moderate   08.58   8.8   Sufface   10   0.4   238   218   73   73   73   73   73   73   73   7						Rottom	8.0	0.4	281	21.7	21.0	7.9	7.0	28.0	20.1	92.3	02.4	6.9	6.0	7.1		3			
Mile						Dollom	8.0	0.4	283		21.0		7.5	28.2	20.1	92.5	32.4	6.9	0.9	7.1		3			
Mide						Surface					21.8		7.9		27 1		89.2			4.0					
Miles   Mile						Curiaco					21.0		7.0		27		00.2		79						
Moderate   Moderate	IM11	Fine	Moderate	08:58	8.8	Middle					21.8	7.9	7.9		27.2		89.6		7.0		5.4		4	821482	810533
Surface   Fine   Moderate   Mod		10	moderate	00.00	0.0	madio					20						00.0				0			021102	0.0000
Surface   Fine   Moderate   Mod						Bottom					21.8		7.8		27.2		90.9		8.1						
Middle   M																									
Fine   Moderate   Record   R						Surface					21.8		7.9		27.3		89.2								
Moderate   Moderate																			6.7		1				
Section   Sect	IM12	Fine	Moderate	08:51	8.6	Middle					21.8		7.9		27.4	89.6	89.7				4.3		5	821151	811500
Section   Sect																									
SR1A Fine Moderate 08:32 4.4   Surface 1.0 0.1 207 219 21.9 7.9 7.8 26.5 26.8 89.0 80.0 6.7 6.7 3.3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3						Bottom					21.8		7.8		27.4		90.8		6.8		4				
SR1A Fine Moderate 08.32 4.4 Middle 2.2 0.10 185					1			•													1				
Section   Fine   Moderate   Mod						Surface					21.9		7.9		26.6		89.0				1				
SRA   Fine   Moderate   Moderat																			6.7		1	-			
Second   S	SR1A	Fine	Moderate	08:32	4.4	Middle					-		-		-		-				4.1		4	819977	812656
SR2 Fine Moderate 08:47						_														1	1				
SR2 Fine Moderate 08:16 4.8 Surface 1.0 0.1 240 219 21.9 7.9 7.9 7.9 27.0 27.0 89.0 89.0 6.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7						Bottom					21.9		7.9		26.6		90.6		6.8		1				
SR2 Fine Moderate 08:16 4.8 Middle 1.0 0.1 235 219 21.9 7.9 7.0 27.0 89.0 80.0 80.0 67 6.7 8.7 8.7 8.7 8.7 8.7 8.7 8.7 8.7 8.7 8						0(					04.0		7.0		07.0		00.0								
SR2 Fine Moderate Bit Moderate Bit Moderate Bit Moderate Bit Moderate Bit Moderate Bit Moderate Bit Moderate Bit Moderate Bit Bit Moderate Bit Moder						Surface					21.9	7.9	7.9		27.0	89.0	89.0		0.7		1				
Second Second	CDO	F:	Madagata	00.40	4.0	Mialalla	-	0.1	251	-		-		-		-		-	6.7	-	1,,	-	4	004.400	044474
SR3 Prine Moderate Bottom Sabotom Sabo	SKZ	FILLE	Widderate	00.10	4.0	ivildale	-	0.1	257	-	-	-	1 -	-	-	-	-	-		-	4.0	-	4	021400	014174
SR3 Cloudy Rough 08:21 8.4 Middle 1.0 0.3 343 21.4 21.4 8.0 8.0 25.5 25.5 90.8 90.8 6.7 4.1 4 82145 807572    Rough Roug						Rottom	3.8	0.1	268	21.9	21.0	7.8	7.0	27.0	27.0	89.8	90.0	6.7	6.7	4.1		5			
SR3 Cloudy Rough 08:21 8.4 Middle 4.2 0.3 346 21.4 21.4 8.0 8.0 27.0 27.0 90.4 90.4 6.8 5.6 5.6 5.6 5.6 5.6 5.6 5.6 5.6 5.6 5.6						Dottom	3.8	0.2	266	21.9	21.5	7.8	7.0	27.0	21.0	90.0	03.3	6.7	0.7	4.1		4			
SR3 Prince Fine Moderate Rough Rough Bate Rough						Surface					21.4		8.0		25.5		90.8								
SR3						Cunacc					21.4		0.0		20.0		50.0		6.9						
Reference of the first state of	SR3	Cloudy	Rough	08:21	8.4	Middle					21.4		8.0		27.0		90.4				5.8		4	822145	807572
SR4A Cloudy Moderate 06:35 10.4 Surface 1.0 0.0 169 21.2 21.2 7.9 7.9 29.0 29.0 92.0 92.0 6.9 9.2 4 4 14 14 15 15 12 12 15 12 15 12 12 15 12 12 15 12 12 15 12 12 15 12 12 15 12 12 15 12 12 15 12 12 15 12 12 15 12 12 15 12 12 15 12 12 15 12 12 15 12 12 15 12 12 15 12 12 15 12 15 12 12 15 12 15 15 15 15 15 15 15 15 15 15 15 15 15		,																							
SR4A Cloudy Moderate Bottom Fine Moderate Bottom Bo						Bottom					21.3		8.0		27.7		91.0		6.9		4				
SR4A Cloudy Moderate 06:35 10.4 Middle 1.0 0.0 164 21.2 21.2 7.9 7.9 28.3 28.3 92.4 7.0 7.0 7.0 8.2 7.0 7.0 6.8 8.1 13 13 12 817175 807788    SR4A Cloudy Moderate 06:35 10.4 Middle 5.2 0.1 191 21.2 21.2 21.2 7.9 7.9 29.0 29.0 92.0 6.9 92.0 62.0 92.0 62.0 92.0 92.0 62.0 92.0 92.0 62.0 92.0 92.0 62.0 92.0 62.0 92.0 92.0 62.0 92.0 92.0 62.0 92.0 92.0 62.0 92.0 92.0 92.0 62.0 92.0 92.0 62.0 92.0 92.0 62.0 92.0 92.0 62.0 92.0 92.0 62.0 92.0 92.0 92.0 92.0 62.0 92.0 92.0 92.0 92.0 92.0 92.0 92.0 9																									
SR4A Cloudy Moderate 06:35 10.4 Middle 5.2 0.1 191 21.2 21.2 7.9 7.9 29.0 29.0 92.0 6.9 7.0 6.8 6.8 6.8 8.1 13 12 817175 807788    Bottom					Surface					21.2	7.9	7.9		28.3	92.4	92.4				1					
SR8 Fine Moderate 08:47 4.8 Middle 5.2 0.1 192 21.2 21.2 7.9 7.9 29.0 29.0 92.0 6.9 6.8 6.8 6.1 12 12 61/1/5 80//88    SR8 Fine Moderate 08:47 4.8   Middle                 -																			7.0		-				
Bottom 9.4 0.0 159 21.2 21.2 7.9 7.9 29.3 29.3 91.9 92.0 6.9 6.9 9.5 10 12  SR8 Fine Moderate 08:47 4.8 Middle 22.0 22.0 7.9 7.9 7.9 27.1 27.1 89.4 89.5 6.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7	SR4A	Cloudy	Moderate	06:35	10.4	Middle					21.2		7.9		29.0	92.0	92.0				8.1		12	817175	807788
SR8 Fine Moderate 08:47 4.8 Middle 1.0 22.0 22.0 7.9 7.9 7.9 29.3 29.3 92.0 92.0 6.9 9.5 12  Surface 1.0 22.0 22.0 7.9 7.9 7.9 27.1 27.1 89.4 89.5 6.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7																					1				
SR8 Fine Moderate 08:47 4.8 Surface 1.0 22.0 22.0 7.9 7.9 7.9 27.1 27.1 89.4 89.5 6.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7						Bottom					21.2		7.9		29.3		92.0		6.9						
SR8 Fine Moderate 08:47 4.8 Middle 1.0 22.0 22.0 7.9 7.9 27.1 27.1 89.5 89.5 6.7 6.7 4.3 4.5 5 820399 811619					<u> </u>																1				
SR8 Fine Moderate 08:47 4.8 Middle 5.1 - 5 820399 811619						Surface					22.0		7.9		27.1		89.5				1				
SR8 Fine Moderate 08:47 4.8 Middle 5.1 - 5 820399 811619  5.1 - 5 820399 811619	000							_	-										6.7		1		_		
	SR8	Fine	Moderate	08:47	4.8	Middle	-		-	_	-	-	1 -	-	-	-	-			-	5.1		5	820399	811619
						Pottom	3.8	-	-	22.0	22.0	7.9	7.0	27.1	27.1	90.0	00.2	6.7	6.0	5.8		5			
				<u></u>		DOLLOTTI	3.8		-	22.0	22.0		7.8	27.1	27.1		90.2		0.8	5.9	1	6			

DA: Depth-Average

Water Quality Monitoring Results on 11 April 23 during Mid-Ebb Tide

Water Quar	ity wonit	oring Resu	ILS UII		11 April 23	auring Mia-																		
Monitoring	Weather	Sea	Sampling	Water	Sampling Dep	.h (m)	Current Speed	Current	Water To	emperature (°C)		рН	Salir	nity (ppt)	DO S	Saturation (%)	Disso Oxy		Turbidity	/(NTU)	Suspende (mg/		Coordinate HK Grid	Coordinate HK Grid
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	(Northing)	(Easting)
					Surface	1.0	0.6	208	21.2	04.0	8.1	0.4	25.3	05.0	92.5	92.5	7.1		6.6		4			
					Surrace	1.0	0.6	209	21.2	21.2	8.1	8.1	25.3	25.3	92.5 92.4	92.5	7.1	7.0	6.7		4			
C1	Claudu	Madavata	40.07	0.0	Middle	4.2	0.6	204	21.1	21.1	8.0	8.0	30.0	20.0	92.5	92.6	6.9	7.0	7.1	6.8	3	3	815610	804224
CI	Cloudy	Moderate	16:27	8.3	ivildale	4.2	0.6	201	21.1	21.1	8.0	8.0	30.0	30.0	92.5 92.6	92.6	6.9		7.1	0.8	3	3	813610	804224
					Bottom	7.3	0.6	231	21.1	21.1	8.0	8.0	29.8	29.8	93.9 94.0	94.0	7.0	7.0	6.2		3			
					DOLLOTT	7.3	0.6	227	21.1	21.1	8.0	6.0	29.8	29.0	94.0	94.0	7.0	7.0	6.9		3			
					Surface	1.0	0.5	170	21.4	21.4	8.0	8.0	26.0	26.1	90.2	90.2	6.9		3.7		5			
					Surface	1.0	0.4	162	21.3	21.4	8.0	6.0	26.1	20.1		90.2	6.9	6.9	3.8		4			
C2	Cloudy	Moderate	14:48	11.9	Middle	6.0	0.4	158	21.3	21.3	8.0	8.0	26.5	26.5	89.9 90.0	90.0	6.8	6.9	4.6	4.1	5	5	825696	806963
02	Cloudy	Moderate	14.40	11.9	Middle	6.0	0.4	151	21.3	21.5	8.0	0.0	26.5	20.5		90.0	6.8		4.6	4.1	4	3	023090	800903
					Bottom	10.9	0.4	187	21.4	21.4	8.0	8.0	26.2	26.2	90.7 90.8	90.8	6.9	6.9	4.2		5			
					Dottom	10.9	0.4	193	21.4	21.4	8.0	0.0	26.2	20.2		30.0	6.9	0.5	4.1		6			
					Surface	1.0	0.5	65	21.8	21.8	8.1	8.1	28.8	28.9	84.2 84.0	84.1	6.2		1.1		3			
					Odriace	1.0	0.6	61	21.8	21.0	8.1	0.1	29.1	20.3		04.1	6.2	6.2	1.0		4			
СЗ	Fine	Moderate	15:37	10.4	Middle	5.2	0.6	97	21.8	21.8	8.1	8.1	29.3	29.7	84.4 84.6	84.5	6.2	0.2	2.0	2.0	2	3	822131	817797
00	1 1110	Moderate	10.07	10.4	Wildalo	5.2	0.6	90	21.8	21.0	8.1	0.1	30.1	20.1		04.0	6.2		2.0	2.0	3	Ü	022101	017707
					Bottom	9.4	0.6	55	21.8	21.8	8.1	8.1	30.1	30.1	85.1 85.3	85.2	6.3	6.3	2.9		2			
					Bottom	9.4	0.6	62	21.8	21.0	8.1	0.1	30.1	00.1		00.2	6.3	0.0	2.9		2			
					Surface	1.0	0.4	200	21.2	21.2	8.0	8.0	25.8	25.4	91.1	91.1	7.0		7.4		3			
					Canado	1.0	0.4	200	21.2		8.0	0.0	25.0	20.1	91.0	0	7.0	7.0	7.9		3			
IM1	Cloudy	Moderate	16:02	6.5	Middle	3.3	0.3	201	21.1	21.2	8.0	8.0	28.1	28.1	90.8	90.9	6.9		10.0	9.2	4	4	818351	806454
	,					3.3	0.3	203	21.2		8.0		28.1				6.9		9.3	4	4			
					Bottom	5.5	0.4	190	21.2	21.2	8.0	8.0	28.2	28.2	92.0 92.0	92.0	6.9	6.9	10.4		5			
						5.5	0.4	191	21.2		8.0		28.2				6.9		10.4		4			
					Surface	1.0	0.4	181	21.2	21.2	8.1	8.1	27.6	27.6	91.3 91.1	91.2	6.9		6.2		4			
						1.0	0.4	187	21.2		8.1		27.5				6.9	6.9	6.5		5			
IM2	Cloudy	Moderate	15:58	7.4	Middle	3.7	0.4	192	21.2	21.2	8.0	8.0	28.1	28.1	90.0	90.0	6.8		9.9	9.5	4	4	819168	806254
	-					3.7	0.4	196	21.2		8.0		28.2				6.8		9.2		4			
					Bottom	6.4	0.3	176	21.1	21.1	8.0	8.0	28.4	28.3	90.6	90.7	6.8	6.8	12.9		4			
						6.4	0.4	182	21.1		8.0		28.3				6.8		12.0		4			
					Surface	1.0	0.2	159	21.5	21.5	8.0	8.0	26.5	26.5	91.5 91.3	91.4	6.9		4.7	4	6			
						1.0	0.2	165	21.4		8.0		26.6				6.9	6.9	4.9	4	5			1
IM7	Cloudy	Moderate	15:19	8.8	Middle	4.4	0.2	144	21.3	21.3	8.1	8.1	27.4	27.5	90.4	90.4	6.8	ł	6.3	6.5	4	4	821333	806851
						4.4	0.2	142	21.3		8.1		27.5						6.5	4	3			
					Bottom	7.8	0.2	148	21.2	21.2	8.0	8.0	28.2	28.2	90.0	90.1	6.8	6.8	8.2	4	3			1
DA: Donth Avor						7.8	0.2	150	21.2		8.0	l	28.2		90.1	ĺ	6.8	İ	8.2	1	4			

DA: Depth-Averaged

Water Quality Monitoring Results on 11 April 23 during Mid-Ebb Tide

Water Quar	ity incomit	ornig rtoca			TT April 23	during wid-		•																
Monitoring	Weather	Sea	Sampling	Water	0	h (m)	Current Speed	Current	Water Te	emperature (°C)		рН	Salinity	(ppt)		aturation (%)	Disso Oxyg		Turbidity	(NTU)	Suspende (mg/		Coordinate	Coordinate
Station	Condition	Condition	Time	Depth (m)	Sampling Dept	n (m)	(m/s)	Direction	Value	Average	Value	Average	Value A	Average	Value		Value	DA	Value	DA	Value	DA	HK Grid (Northing)	HK Grid (Easting)
					0.7	1.0	0.4	101	21.9	04.0	8.0		25.7	05.0	90.4	00.5	6.8		4.3		4			
					Surface	1.0	0.3	99	21.9	21.9	8.0	8.0	25.9	25.8	90.5	90.5	6.8		4.3		5			
11.440	<b>-</b>	Mandamata	44.40	0.4	A AC JUIL	4.7	0.5	108	21.9	04.0	8.0	0.0	26.8	00.0	90.8	00.0	6.8	6.8	5.0		3		000054	000000
IM10	Fine	Moderate	14:43	9.4	Middle	4.7	0.5	107	21.9	21.9	8.0	8.0	26.9	26.9	90.9	90.9	6.8		5.1	5.3	4	4	822254	809833
					Dattan	8.4	0.4	109	21.9	24.0	8.0	0.0	28.2	28.2	91.3	04.5	6.8	6.8	6.6		3			
					Bottom	8.4	0.4	112	21.9	21.9	8.0	8.0	28.2	28.2	91.6	91.5	6.8	6.8	6.7		3			
					Surface	1.0	0.5	78	22.0	22.0	8.0	8.0	25.2	25.3	87.2	87.2	6.6		3.1		3			
					Surface	1.0	0.5	82	22.0	22.0	8.0	0.0	25.3	25.5	87.2	07.2	6.6	6.6	3.1		2			
IM11	Fine	Moderate	14:50	7.8	Middle	3.9	0.4	108	22.0	22.0	8.0	8.0	25.8	26.5	87.2	87.2	6.6	0.0	4.2	4.2	2	3	821512	810531
IIVI I I	Fille	Moderate	14.50	7.0	ivildale	3.9	0.4	114	22.0	22.0	8.0	0.0	27.2	20.5	87.2	07.2	6.5		4.2	4.2	3	3	021312	010551
					Bottom	6.8	0.5	85	22.0	22.0	8.0	9.0	27.5	27.6	87.5	87.6	6.5	6.5	5.3		3			
					Bottom	6.8	0.5	77	22.0	22.0	8.0	8.0	27.7	27.0	87.6	07.0	6.5	6.5	5.4		3			
					Surface	1.0	0.5	105	22.1	22.1	8.0	8.0	26.4	26.4	87.6	87.6	6.5		2.5		2			
					Surface	1.0	0.5	109	22.1	22.1	8.0	0.0	26.5	20.4	87.5	07.0	6.5	6.5	2.5		3			
IM12	Fine	Moderate	14:54	7.0	Middle	3.5	0.5	102	22.1	22.1	8.0	8.0	26.9	27.1	87.4	87.4	6.5	6.5	2.6	2.8	3	3	821155	811499
IIVI 12	Fine	Moderate	14:54	7.0	Middle	3.5	0.5	104	22.1	22.1	8.0	8.0	27.3	27.1	87.3	87.4	6.5		2.7	2.8	3	3	821133	811499
					Dattan	6.0	0.5	111	22.0	22.4	8.0	0.0	27.4	27.2	87.8	88.0	6.5	6.6	3.2		3			
					Bottom	6.0	0.5	115	22.1	22.1	8.0	8.0	27.0	21.2	88.1	88.0	6.6	0.0	3.1		3			
					Cuntaga	1.0	0.0	86	22.1	22.4	8.1	0.4	26.3	20.2	87.0	07.0	6.5		3.9		2			
					Surface	1.0	0.1	88	22.1	22.1	8.1	8.1	26.3	26.3	86.9	87.0	6.5	6.5	3.9		3			
SR1A	Eino	Madarata	15:08	5.0	Middle	2.5	0.1	81	-		-		-		-		-	6.5	-	4.4	-	3	819976	812657
SKIA	Fine	Moderate	13.06	5.0	ivildale	2.5	0.1	83	-	-	-	1	-	-	-	-	-		-	4.4	-	3	019970	012007
					Bottom	4.0	0.0	74	22.1	22.1	8.1	8.1	26.4	26.3	86.7	86.7	6.5	6.5	4.8		3			
					DULLUIII	4.0	0.1	74	22.1	22.1	8.1	0.1	26.3	20.3	86.6	00.7	6.5	6.5	4.9		2			
					Surface	1.0	0.3	57	22.0	22.0	8.0	8.0	27.0	27.2	86.4	86.4	6.4		4.0		2			
					Surface	1.0	0.3	58	22.0	22.0	8.0	0.0	27.3	21.2	86.3	00.4	6.4	6.4	4.0		2			
SR2	Fine	Moderate	15:21	4.8	Middle	-	0.3	62	-		-		-		-		-	0.4	-	4.6	-	3	821466	814147
SINZ	1 1116	Moderate	13.21	4.0	Middle	-	0.3	54	-		-		-	-	-	_	-			4.0	-	3	021400	014147
					Bottom	3.8	0.3	43	22.0	22.0	8.0	8.0	28.0	27.8	86.9	87.1	6.4	6.5	5.1		3			
					Bottom	3.8	0.3	37	22.0	22.0	8.0	0.0	27.6	21.0	87.2	07.1	6.5	0.5	5.1		3			
					Surface	1.0	0.4	159	21.6	21.6	8.0	8.0	26.3	26.3	93.3	93.3	7.1		5.1		4			
					Surface	1.0	0.4	157	21.6	21.0	8.0	0.0	26.3	20.3	93.3	93.3	7.1	7.1	4.9		3			
SR3	Cloudy	Moderate	15:13	9.4	Middle	4.7	0.4	140	21.4	21.4	8.0	8.0	27.1	27.1	92.6	92.6	7.0	7.1	10.5	8.9	4	4	822144	807574
010	Cloudy	Woderate	10.10	3.4	ivildale	4.7	0.4	134	21.4	21.4	8.0	0.0	27.1	21.1	92.6	32.0	7.0		10.8	0.3	3	7	022144	007574
					Bottom	8.4	0.4	159	21.4	21.4	8.0	8.0	27.2	27.2	93.9	93.9	7.1	7.1	11.3		4			
					Dottom	8.4	0.4	151	21.4	21.4	8.0	0.0	27.2	21.2	93.9	33.3	7.1	7.1	11.1		4			
		<u> </u>			Surface	1.0	0.1	80	21.6	21.6	8.0	8.0	23.0	23.0	94.7	94.6	7.3		4.6		4			
					Guilace	1.0	0.1	80	21.6	21.0	8.0	0.0	23.0	20.0	94.4	34.0	7.3	7.2	4.7		5			
SR4A	Cloudy	Moderate	16:57	9.3	Middle	4.7	0.0	57	21.3	21.3	8.0	8.0	27.1	27.2	92.6	92.7	7.0	1.2	7.6	6.4	4	4	817171	807833
J1(-)/(	Dioday	····odorate	10.07	0.0	Middle	4.7	0.1	51	21.3	21.0	8.0	0.0	27.2	-1.2	92.7	02.7	7.0		7.6	0.4	5	7	317171	007000
					Bottom	8.3	0.0	98	21.3	21.3	8.0	8.0	27.2	27.1	94.1	94.3	7.1	7.2	7.2		4			
					20110111	8.3	0.0	104	21.3	20	8.0		27.1		94.4	00	7.2		7.0		3			
		<u> </u>			Surface	1.0	-	-	22.1	22.1	8.1	8.1	26.6	26.6	87.0	87.0	6.5		3.8		3			
					Guildoo	1.0	-	-	22.1	22.1	8.1	0.1	26.7	20.0	87.0	07.0	6.5	6.5	3.7		2			
SR8	Fine	Moderate	14:57	5.6	Middle	-	-	-	-	_	-	] .	-	_	-		-	0.0	-	4.0	-	3	820386	811616
5.15				0.0	madio	-	-	-	-		-		-		-		-		-	1	-	Ĭ	320003	0
					Bottom	4.6	-	-	22.1	22.1	8.0	7.9	27.0	27.0	87.7	87.8	6.5	6.5	4.3		3			
					Bottom	4.6	-	-	22.1	22.1	7.9	7.0	27.1	27.0	87.8	07.0	6.5	0.0	4.4		4			

Water Quality Monitoring Results on 11 April 23 during Mid-Flood Tide

Water Qual	lity Monit	oring Resu	its on		11 April 23	during Mid-	Flood 11	ae																
Monitoring	Weather	Sea	Sampling	Water	Sampling Dep	oth (m)	Current Speed	Current	Water T	emperature (°C)		рН	Sali	nity (ppt)	DO S	Saturation (%)	Disso Oxy		Turbidity	/(NTU)	Suspende (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling Dep	om (m)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					0	1.0	0.3	17	21.2	04.0	8.1	0.4	24.4	04.4	92.8	00.7	7.1		4.2		5			
					Surface	1.0	0.2	24	21.2	21.2	8.1	8.1	24.5	24.4	92.8 92.6	92.7	7.1		4.3		6			
0.4	01	Madazi	00.00	0.0	NAC-1-III-	4.0	0.2	19	21.2	04.0	8.1	0.4	27.7	07.7	91.7		6.9	7.0	9.7	7.	4	-	045000	004050
C1	Cloudy	Moderate	09:03	8.0	Middle	4.0	0.2	24	21.2	21.2	8.1	8.1	27.7	27.7	91.7	91.7	6.9		9.3	7.5	5	5	815623	804256
					D. H	7.0	0.2	38	21.2	04.0	8.0	0.0	28.1	00.4	91.9	92.0	6.9	0.0	8.8	1	4			
					Bottom	7.0	0.3	38	21.2	21.2	8.0	8.0	28.1	28.1	91.9 92.0	92.0	6.9	6.9	8.9	1	4			
					Cunface	1.0	0.4	342	21.4	21.4	8.0	8.0	25.8	25.8	91.0	91.0	6.9		3.6		3			
					Surface	1.0	0.4	337	21.4	21.4	8.0	8.0	25.8	25.8	91.0	91.0	6.9	7.0	3.6		3			
C2	Cloudy	Moderate	10:49	11.6	Middle	5.8	0.5	7	21.3	21.3	8.0	8.0	26.7	26.7	91.7	91.7	7.0	7.0	7.3	6.5	3	4	825658	806943
62	Cloudy	Moderate	10:49	11.6	ivildale	5.8	0.4	9	21.3	21.3	8.0	8.0	26.7	20.7	91.7	91.7	7.0		7.3	6.5	3	4	823638	800943
					Bottom	10.6	0.4	8	21.3	21.3	8.0	8.0	26.7	26.7	92.3 92.3	92.3	7.0	7.0	8.7		4			
					DOLLOTT	10.6	0.4	8	21.3	21.3	8.0	6.0	26.7	20.7	92.3	92.3	7.0	7.0	8.7		5			
					Surface	1.0	0.5	258	21.8	21.8	8.0	8.0	29.1	29.1	84.4 84.7	84.6	6.2		1.0		3			
					Gunace	1.0	0.4	254	21.8	21.0	8.0	0.0	29.2	23.1			6.3	6.3	1.1		2			
C3	Fine	Moderate	09:51	11.2	Middle	5.6	0.4	251	21.8	21.8	8.0	8.0	29.5	29.5	84.8 85.2	85.0	6.3	0.5	1.6	1.8	2	2	822127	817782
00	1 1110	Moderate	00.01	11.2	Wildale	5.6	0.4	250	21.8	21.0	8.0	0.0	29.5	20.0		00.0	6.3		1.5	1.0	2	-	OZZIZI	011702
					Bottom	10.2	0.4	267	21.8	21.8	8.0	8.0	29.7	29.7	85.5 85.5	85.5	6.3	6.3	2.6		3			
					Bottom	10.2	0.4	272	21.8	21.0	8.0	0.0	29.7	20		00.0	6.3	0.0	2.7		2			
					Surface	1.0	0.2	35	21.2	21.2	8.1	8.1	25.9	25.9	89.9 89.7	89.8	6.9		8.7		4			
						1.0	0.2	28	21.2		8.1		26.0				6.8	6.8	9.1		4			
IM1	Cloudy	Moderate	09:30	6.5	Middle	3.3	0.3	23	21.2	21.2	8.0	8.0	28.3	28.3	89.4 89.4	89.4	6.7		10.0	9.4	4	4	818371	806473
	,					3.3	0.3	29	21.2		8.0		28.3				6.7		9.3		3			
					Bottom	5.5	0.2	31	21.2	21.2	8.0	8.0	28.3	28.3	89.4 89.5	89.5	6.7	6.7	9.4		3			
						5.5	0.2	33	21.2		8.0		28.3				6.7		10.0		3			
					Surface	1.0	0.3	10	21.3	21.3	8.1	8.1	25.2	25.2	92.1 92.0	92.1	7.1		5.8	4	3			
						1.0	0.3	9 7			8.1		25.2				7.1	7.0	5.9	_	3			
IM2	Cloudy	Moderate	09:40	6.8	Middle	3.4	0.3	1	21.2 21.2	21.2	8.0	8.0	28.1	28.1	91.7	91.8	6.9 6.9		10.4 10.7	9.6	4	4	819193	806243
						5.8	0.3	1 5											10.7	_	4			
					Bottom	5.8	0.3	3	21.2	21.3	8.0	8.0	28.1	28.0	92.3 92.4	92.4	7.0	7.0	12.5	-	4			
				l I			0.2	<u>3</u> 16	21.5											<u> </u>	4			
					Surface	1.0	0.3	16	21.5	21.5	8.0	8.0	25.7 25.7	25.7	92.2 92.1	92.2	7.0		4.8 5.1	+	5			
						4.1	0.2	17	21.3		8.0		27.8				6.9	7.0	11.0	+	4			
IM7	Cloudy	Moderate	10:13	8.1	Middle	4.1	0.3	16	21.3	21.3	8.0	8.0	27.8	27.8	91.0	91.0	6.9		11.3	9.7	3	4	821334	806826
					_	7.1	0.3	337	21.2		8.0		28.0		91.1		6.9		12.9	1	3			
					Bottom	7.1	0.3	333	21.2	21.2	8.0	8.0	28.0	28.0	91.2	91.2	6.9	6.9	13.0	1	4			
DA - Davida Acces			1		1	1 1.1	0.0	000	41.4		0.0		20.0	<u> </u>	01.2	<u> </u>	0.0		10.0	1				

DA: Depth-Averaged

Water Quality Monitoring Results on 11 April 23 during Mid-Flood Tide

water Qua	nty monne	orning recou	1113 011		i i Aprii 23	during wid-		uc																
Monitoring	Weather	Sea	Sampling	Water	Occupation 5		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 Dep	th (m)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value		Value	DA	Value	DA	Value	DA	HK Grid (Northing)	HK Grid (Easting)
					0 /	1.0	0.4	304	22.0	22.2	8.0		25.5		86.8	00.7	6.5		3.3		2			
					Surface	1.0	0.4	308	22.0	22.0	8.0	8.0	25.5	25.5	86.5	86.7	6.5		3.3		3			
			44.00			4.6	0.4	293	22.0	20.0	8.0		27.4	07.0	86.3		6.4	6.5	4.8		4		000040	
IM10	Fine	Moderate	11:03	9.2	Middle	4.6	0.4	290	21.9	22.0	8.0	8.0	26.6	27.0	86.4	86.4	6.5		4.8	4.6	4	4	822240	809839
					5	8.2	0.4	306	21.9	24.0	8.0		27.8	07.0	87.3		6.5	0.5	5.6		4			
					Bottom	8.2	0.4	312	21.9	21.9	8.0	8.0	28.0	27.9	87.6	87.5	6.5	6.5	5.6		4			
					0	1.0	0.4	292	22.0	00.0	8.0	0.0	26.9	00.0	86.6	00.0	6.5		3.9		4			
					Surface	1.0	0.4	292	22.0	22.0	8.0	8.0	26.9	26.9	86.5	86.6	6.5	6.5	3.9		5			
IM11	Fine	Moderate	10:55	8.8	Middle	4.4	0.4	297	22.0	22.0	8.0	8.0	27.0	27.0	86.5	86.6	6.5	6.5	4.3	4.9	4	4	821522	810563
IIVI I I	Fille	Moderate	10.55	0.0	Middle	4.4	0.4	296	22.0	22.0	8.0	6.0	27.0	27.0	86.6	00.0	6.5		4.3	4.9	3	4	021322	610363
					Bottom	7.8	0.5	296	22.0	22.0	8.1	0.1	27.1	27.0	86.7	86.8	6.5	6.5	6.5		3			
					DULLUITI	7.8	0.5	297	22.0	22.0	8.1	8.1	27.0	27.0	86.8	00.0	6.5	6.5	6.6		4			
					Surface	1.0	0.4	294	22.0	22.0	8.1	8.1	27.1	27.1	86.0	86.0	6.4		2.3		4			
					Surface	1.0	0.5	300	22.0	22.0	8.1	0.1	27.1	21.1	86.0	00.0	6.4	6.4	2.3		4			
IM12	Fine	Moderate	10:46	8.4	Middle	4.2	0.5	290	22.0	22.0	8.1	8.0	27.2	27.2	85.9	86.0	6.4	0.4	2.5	2.6	4	5	821159	811506
IIVI I Z	Fille	Moderate	10.46	0.4	Middle	4.2	0.5	289	22.0	22.0	8.0	6.0	27.2	21.2	86.0	00.0	6.4		2.5	2.0	4	5	621159	611506
					Bottom	7.4	0.5	294	22.0	22.0	8.0	8.0	27.3	27.2	86.7	86.7	6.5	6.5	3.1		6			
					DULLUITI	7.4	0.5	298	22.0	22.0	8.0	6.0	27.2	21.2	86.7	00.7	6.5	6.5	3.1		5			
					Surface	1.0	0.0	195	22.2	22.2	8.0	8.0	25.7	25.8	88.2	88.2	6.6		2.8		2			
					Surface	1.0	0.1	189	22.1	22.2	8.0	0.0	25.8	23.0	88.2	00.2	6.6	6.6	2.8		4			
SR1A	Fine	Moderate	10:28	5.0	Middle	2.5	-	195	-	_	-		-		-	_	-	0.0	-	3.2	-	3	819981	812665
OKIA	1 1110	Woderate	10.20	5.0	Middle	2.5	0.0	200	-		-		-		-		-		-	5.2	-	3	013301	012003
					Bottom	4.0	0.0	215	22.1	22.1	8.0	8.0	25.8	25.8	88.6	88.7	6.6	6.7	3.6		2			
					Bottom	4.0	-	220	22.1		8.0	0.0	25.8	20.0	88.7	00	6.7	0	3.6		3			
					Surface	1.0	0.1	231	22.1	22.1	8.0	8.0	26.2	26.2	87.0	87.1	6.5		2.3		2			
					Gundoo	1.0	0.2	233	22.1		8.0	0.0	26.2		87.1	07	6.5	6.5	2.3		2			
SR2	Fine	Moderate	10:11	5.8	Middle	-	0.1	214	-	_	-		-	_	-	_	-	0.0	-	2.6	-	2	821483	814155
						-	0.2	209	-		-		-		-		-		-		-	_		
					Bottom	4.8	0.1	230	22.1	22.1	8.0	8.0	26.2	26.2	87.5	87.6	6.5	6.6	2.9		2			
					=	4.8	0.1	236	22.1		8.0		26.2		87.7		6.6		3.0		2			
					Surface	1.0	0.4	343	21.5	21.5	8.0	8.0	25.5	25.5	93.7	93.7	7.1		6.3		3			
						1.0	0.4	346	21.5		8.0		25.5		93.6		7.1	7.1	6.4		2			
SR3	Cloudy	Moderate	10:18	8.5	Middle	4.3	0.4	328	21.4	21.4	8.0	8.0	26.4	26.4	93.8	93.8	7.1		10.1	9.4	4	4	822140	807558
	,					4.3	0.4	331	21.4		8.0		26.4		93.8		7.1		10.1		3			
					Bottom	7.5	0.4	335	21.4	21.4	8.0	8.0	26.6	26.6	94.4 94.5	94.5	7.2	7.2	11.7		5			
						7.5	0.5	335	21.4		8.0		26.6				7.2		11.7		4			
					Surface	1.0	0.0	168	21.3	21.3	7.9	7.9	24.4	24.4	92.9 92.7	92.8	7.1		5.2	4	4			
						1.0	0.0	174	21.3		7.9		24.4				7.1	7.0	5.2	4	3			
SR4A	Cloudy	Moderate	08:32	8.5	Middle	4.3	0.0	161	21.2	21.2	7.9	7.9	26.5 26.5	26.5	90.7	90.7	6.9		6.3	5.8	4	4	817203	807798
						4.3 7.5	0.0	165	21.2		7.9	<u> </u>				1	6.9		6.3	4				
					Bottom	7.5	0.0	158 161	21.2 21.2	21.2	7.9	7.9	25.9 25.8	25.9	90.2	90.3	6.9	6.9	6.0	4	<u>4</u> 5			
			1	<u> </u> 		1.0	- 0.1					<u> </u>				1				1				<u> </u>
					Surface	1.0	-	-	22.0	22.1	8.0	8.0	26.9 26.9	26.9	86.3 86.3	86.3	6.4		3.4	4	2			1
						1.0	-	-	- 22.2		8.0	-	26.9				6.4	6.4	3.3	-				
SR8	Fine	Moderate	10:42	4.2	Middle	-	-	-	-	-	-		-	-	-	-	-		-	4.1	-	2	820389	811625
						3.2	-	-	22.2			1				1	6.5		4.9	1	2			
					Bottom	3.2	-	-	22.2	22.2	8.0 7.9	7.9	26.9	26.9	87.0 86.9	87.0	6.5	6.5	4.9	1	2			
DA: Donth Avoi						3.2	_	-	22.2		1.9		20.9		00.9		0.5		4.0	1				L

DA: Depth-Averaged

Water Quality Monitoring Results on 13 April 23 during Mid-Ebb Tide

water Qua	ity woint	oring Kesu	iits oii		13 April 23	auring Mia-	EDD HUG	:																
Monitoring	Weather	Sea	Sampling	Water	Sampling Dept	h (m)	Current Speed	Current	Water Te	emperature (°C)	p	Н	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	ii (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	216	21.7	21.7	8.1	8.1	29.4	29.4	98.2	98.2	7.3		4.8		<2			
					Surface	1.0	0.4	212	21.7	21.7	8.1	0.1	29.5	29.4	98.1	98.2	7.3	7.1	5.1	1	<2			
C1	Cloudy	Moderate	18:19	8.4	Middle	4.2	0.5	222	21.4	21.4	8.1	8.1	31.7	31.7	93.8	93.9	6.9	7.1	8.1	7.2	<2	<2	815642	804232
Ci	Cloudy	Moderate	10.19	0.4	Middle	4.2	0.5	227	21.4	21.4	8.1	0.1	31.7	31.7	93.9	93.9	6.9		8.6	1.2	<2	<2	013042	004232
					Bottom	7.4	0.4	215	21.7	21.7	8.1	8.1	31.4	31.4	94.4	94.5	6.9	6.9	8.5		<2			
					Bottom	7.4	0.5	221	21.7	21.7	8.1	0.1	31.4	31.4	94.6	34.3	6.9	0.9	8.3		<2			
					Surface	1.0	0.3	174	22.1	22.1	8.0	8.0	25.2	25.2	92.5	92.5	7.0		1.4		<2			
					Sulface	1.0	0.3	172	22.1	22.1	8.0	0.0	25.3	25.2	92.5	92.5	7.0	6.8	1.5		<2			
C2	Cloudy	Moderate	16:50	11.2	Middle	5.6	0.4	186	21.7	21.7	8.0	8.0	27.4	27.5	88.0 87.9	88.0	6.6	0.0	2.4	1.8	<2	2	825691	806955
02	Cloudy	Moderate	10.50	11.2	Middle	5.6	0.4	186	21.7	21.7	8.0	0.0	27.6	21.5	87.9	00.0	6.6		2.5	1.0	<2	2	023091	000933
					Bottom	10.2	0.4	186	22.0	22.1	8.0	8.0	28.0	27.9	87.1	87.6	6.5	6.5	1.7		2			
					Bottom	10.2	0.4	191	22.1	22.1	8.0	0.0	27.9	21.5	88.1	07.0	6.5	0.5	1.6		3			
					Surface	1.0	0.3	85	21.9	21.9	8.0	8.0	28.7	28.8	87.5	87.6	6.5		1.1		2			
					Ourlace	1.0	0.3	79	21.9	21.5	8.0	0.0	29.0	20.0	87.6	07.0	6.5	6.5	1.1		2			
C3	Fine	Calm	17:59	10.8	Middle	5.4	0.4	73	21.9	21.9	8.0	8.0	29.2	29.6	87.7 87.8	87.8	6.5	0.5	1.4	1.7	3	3	822129	817788
03	1 1110	Cairii	17.55	10.0	Middle	5.4	0.3	78	21.9	21.5		0.0	30.0	23.0		07.0	6.4		1.4	J '.,	3	3	022123	017700
					Bottom	9.8	0.4	56	21.9	21.9	8.0	8.0	30.0	30.0	88.0	87.9	6.5	6.5	2.4		2			
					Dottom	9.8	0.4	49	21.9	21.5	8.0	0.0	30.0	30.0	87.8	07.3	6.4	0.5	2.5		3			
					Surface	1.0	0.3	203	21.8	21.8	8.1	8.1	30.1	30.2	96.2	96.1	7.1		3.7		2			
					Guildoo	1.0	0.3	196	21.7	21.0	8.1	0.1	30.3	00.2	96.0	00.1	7.1	7.1	3.8		2			
IM1	Cloudy	Moderate	17:58	6.4	Middle	3.2	0.3	189	21.6	21.6	8.1	8.1	30.8	30.9	95.4 95.3	95.4	7.0		4.2	4.4	<2	2	818361	806447
	o.ouu)	moderate	11.00	0	madio	3.2	0.3	194	21.5	21.0	8.1	0	30.9	00.0		00.1			4.4		<2	-	0.000.	000111
					Bottom	5.4	0.3	173	21.4	21.4	8.1	8.1	31.5	31.5	94.7	94.7	7.0	7.0	5.2	_	<2			
					= + 11 + 11	5.4	0.3	168	21.4		8.1		31.5		94.7	*	7.0		5.2		<2			
					Surface	1.0	0.3	191	22.0	22.0	8.1	8.1	29.6	29.7	96.0	95.9	7.1		2.6	_	<2			
						1.0	0.4	189	21.9		8.1		29.8	-	95.8		7.1	7.1	2.7	_	<2			
IM2	Cloudy	Moderate	17:53	6.6	Middle	3.3	0.3	193	21.5	21.5	8.1	8.1	30.8	30.9	94.8	94.8	7.0		5.7	5.0	<2	2	819190	806215
	,					3.3	0.3	186	21.5		8.1		30.9				7.0		5.8		<2			
					Bottom	5.6	0.4	193	21.6	21.6	8.1	8.1	31.2	31.2	94.5	94.5	7.0	7.0	6.7	_	2			
					***	5.6	0.4	193	21.6		8.1		31.1		94.5		7.0		6.8		2			
					Surface	1.0	0.2	177	22.1	22.1	8.0	8.0	26.2	26.2	93.5	93.5	7.0		1.6	4	3			
						1.0	0.2	173	22.1		8.0		26.2		93.5		7.0	7.0	1.7	4	2			
IM7	Cloudy	Moderate	17:36	7.7	Middle	3.9	0.2	170	21.6	21.6	8.1	8.1	28.7	28.7	92.9 92.9	92.9	6.9		4.0	3.7	2	2	821332	806823
						3.9	0.2	170	21.6		8.1		28.7						4.2	4	2			
					Bottom	6.7	0.2	165	21.4	21.4	8.1	8.1	30.7	30.7	94.3	94.4	7.0	7.0	5.4	4	2			
DA: Donth Ave						6.7	0.2	162	21.4		8.1		30.7	·	94.5		7.0		5.4		2			

DA: Depth-Averaged

Water Quality Monitoring Results on 13 April 23 during Mid-Ebb Tide

		orning ittest			10 April 20	auring mia		-	1												_			
Monitoring	Weather	Sea	Sampling	Water	Constitut Desir	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)	Sampling Dept	n (m)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
						1.0	0.3	120	22.0		8.0		25.3		90.1		6.8		1.3		2			
					Surface	1.0	0.3	124	22.0	22.0	8.0	8.0	25.5	25.4	89.9	90.0	6.8		1.3	1	3			
						4.7	0.3	102	22.0		8.0		26.5		89.7		6.7	6.8	1.7	1	4	_		
IM10	Fine	Calm	16:53	9.4	Middle	4.7	0.3	95	22.0	22.0	8.0	8.0	26.5	26.5	89.7	89.7	6.7		1.7	2.0	3	3	822260	809852
						8.4	0.3	93	22.0		8.0		27.8		90.3		6.7		3.0	1	4			
					Bottom	8.4	0.3	87	22.0	22.0	8.0	8.0	27.8	27.8	90.5	90.4	6.7	6.7	3.0	1	4			
						1.0	0.3	90	22.1		8.0		24.8		86.3		6.5		1.4		2			
					Surface	1.0	0.3	93	22.1	22.1	8.0	8.0	24.9	24.9	86.1	86.2	6.5		1.5	1	2			
			47.00			3.9	0.3	105	22.1		8.0		25.4		85.8	0.5.0	6.5	6.5	1.8		3		004505	
IM11	Fine	Calm	17:03	7.8	Middle	3.9	0.4	99	22.1	22.1	8.0	8.0	26.8	26.1	85.8	85.8	6.4		1.9	1.8	2	3	821507	810546
					_	6.8	0.3	110	22.1		8.0		27.1		86.8		6.5		2.0	1	4			
					Bottom	6.8	0.3	104	22.1	22.1	8.0	8.0	27.3	27.2	87.2	87.0	6.5	6.5	2.0	1	3			
						1.0	0.4	110	22.2		8.0		26.0		88.1		6.6		1.1		3			
					Surface	1.0	0.4	116	22.2	22.2	8.0	8.0	26.1	26.1	87.8	88.0	6.6		1.1	1	3			
						3.6	0.4	105	22.2		8.0		26.5		87.5		6.5	6.6	1.4	1	4			
IM12	Fine	Calm	17:09	7.2	Middle	3.6	0.4	106	22.2	22.2	8.0	8.0	26.9	26.7	87.5	87.5	6.5		1.4	1.6	3	3	821175	811506
						6.2	0.4	96	22.1		8.0		27.0		88.4		6.6		2.2	1	3			
					Bottom	6.2	0.4	102	22.2	22.2	8.0	8.0	26.6	26.8	88.8	88.6	6.6	6.6	2.3	1	4			
						1.0	0.0	88	22.2		8.0		26.2		88.0		6.6		1.8		2			
					Surface	1.0	0.0	84	22.2	22.2	8.0	8.0	26.2	26.2	88.0	88.0	6.6		1.7	1	2			
						2.6	0.0	81	-		-		-		-		-	6.6	- 1.7	1	-			
SR1A	Fine	Calm	17:22	5.2	Middle	2.6	0.0	77	<del>-</del>	-	-	-	<del>-</del>	-		-				1.6	-	3	819980	812656
						4.2	0.0	76	22.2				_		_		6.6		1.6	1	4			
					Bottom	4.2	0.0	76	22.2	22.2	8.0	8.0	26.1 26.1	26.1	88.3 88.5	88.4	6.6	6.6	1.5	-	4			
				1	<u> </u>	1.0	0.1	42	22.2								6.5		1.0		2			
					Surface	1.0	0.3	39	22.1	22.1	8.0	8.0	26.9 27.2	27.1	87.7 87.5	87.6	6.5		1.1	-	3			
						1.0	0.3	53	- 22.1		8.0		-		- 87.5		- 0.0	6.5	- 1.1	-				
SR2	Fine	Calm	17:40	5.0	Middle		0.3			-		-	-	-		-	-			1.3	-	2	821483	814153
						4.0	0.2	55 67	- 00.4		-	-	- 07.0		- 00.0				- 4.0	4	-			
					Bottom	4.0			22.1	22.1	8.0	8.0	27.9	27.7	88.6 89.2	88.9	6.6	6.6	1.6	-	2			
							0.3	63	22.1								6.6		1.7		_			
					Surface	1.0	0.4	151	22.2	22.2	8.0	8.0	25.9	25.9	92.3	92.3	6.9		1.5	-	<2			
						1.0	0.4	144	22.2		8.0		25.9		92.2		6.9	6.9	1.5	-	<2			
SR3	Cloudy	Moderate	17:28	8.7	Middle	4.4	0.4	146	21.9	21.9	8.0	8.0	26.5	26.5	91.8	91.9	6.9		2.3	2.8	<2	2	822130	807564
						4.4	0.4	145	21.9		8.0		26.5		91.9		6.9		2.4	4	<2			
					Bottom	7.7	0.3	174	21.7	21.7	8.0	8.0	28.5	28.6	92.4	92.5	6.9	6.9	4.6	4	2			
						7.7	0.3	172	21.7		8.0		28.6		92.5		6.9		4.7		2			
					Surface	1.0	0.0	23	21.7	21.7	8.1	8.1	29.1	29.1	94.6	94.6	7.0		6.1	1	2			
						1.0	0.0	23	21.6		8.1		29.1		94.6		7.0	7.0	6.3	4	3			
SR4A	Cloudy	Moderate	18:48	8.4	Middle	4.2	0.0	54	21.6	21.6	8.1	8.1	30.8	30.8	94.3	94.3	6.9		7.1	6.7	2	2	817190	807830
	,					4.2	0.0	55	21.6	_	8.1		30.8		94.3		6.9		7.1		2			
					Bottom	7.4	0.0	59	21.8	21.9	8.1	8.1	30.7	30.7	94.5	94.5	6.9	6.9	6.7	4	2			
			<u> </u>	<u> </u>		7.4	0.0	63	21.9		8.1	1	30.7		94.5		6.9		6.7	<u> </u>	2			
					Surface	1.0	-	-	22.2	22.2	8.0	8.0	26.2	26.2	84.9	85.0	6.3		2.2	4	2			
				1		1.0	-	-	22.2		8.0		26.3		85.1		6.4	6.4	2.2	1	2			1
SR8	Fine	Calm	17:13	5.0	Middle	-	-	-	-	_	-		-	_	-	_	-		-	2.6	-	2	820400	811601
					***************************************	-	-	-	-		-		-		-		-		-	1	-	_		
					Bottom	4.0	-	-	22.2	22.2	8.0	8.0	26.6	26.6	86.0	86.2	6.4	6.4	2.9	1	2			
					20110	4.0	-	-	22.2		8.0	0.0	26.7	20.0	86.3	00.2	6.4	0	2.9		2			

Water Quality Monitoring Results on 13 April 23 during Mid-Flood Tide

Monitoring	Weather	Sea	Sampling	Water	13 April 23	during wild-	Current Speed	Current	Water Te	emperature (°C)		pН	Salin	ity (ppt)	DO S	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	Value	Average	Value	DA	Value	DA	Value	DA	HK Grid (Northing)	HK Grid (Easting)
					Surface	1.0	0.1	34	22.0	22.0	8.0	8.0	28.7	28.7	96.3	96.3	7.1		2.5		3			
					Sulface	1.0	0.1	41	22.0	22.0	8.0	0.0	28.7	20.7	96.3	90.5	7.1	7.0	2.5		2			
C1	Cloudy	Moderate	04:46	8.4	Middle	4.2	0.1	50	21.4	21.4	8.1	8.1	31.3	31.3	94.1	94.2	6.9	7.0	5.2	6.7	<2	2	815636	804226
Ci	Cloudy	Moderate	04.40	0.4	ivildule	4.2	0.1	44	21.4	21.4	8.1	0.1	31.3	31.3	94.3	34.2	7.0		5.3	0.7	<2	2	013030	004220
					Bottom	7.4	0.2	42	21.4	21.5	8.1	8.0	31.2	31.2	94.9	95.1	7.0	7.0	12.3		<2			
					Bottom	7.4	0.1	41	21.5	21.5	8.0	0.0	31.2	31.2	95.2	93.1	7.0	7.0	12.4		<2			
					Surface	1.0	0.1	215	22.3	22.3	8.0	8.0	25.2	25.2	92.9	92.9	7.0		1.1		3			
					Ounace	1.0	0.1	217	22.3	22.5	8.0	0.0	25.2	25.2	92.8	32.3	7.0	6.9	1.1		3			
C2	Cloudy	Moderate	06:29	11.9	Middle	6.0	0.1	211	21.8	21.8	8.0	8.0	25.8	25.8	89.4	89.4	6.8	0.5	2.6	2.3	2	3	825696	806940
02	Oloudy	Wioderate	00.20	11.5	Wilddie	6.0	0.1	212	21.7	21.0	8.0	0.0	25.8	20.0	89.3	00.4	6.8		2.7		3	J	020000	000040
					Bottom	10.9	0.1	231	21.7	21.7	8.0	8.0	27.7	27.7	89.7	89.8	6.7	6.7	3.1		<2			
						10.9	0.0	229	21.7		8.0		27.7		89.8		6.7		3.1		<2			
					Surface	1.0	0.1	95	21.9	21.9	8.1	8.1	29.5	29.6	82.1	82.0	6.1	Į.	1.1		4			
						1.0	0.1	93	21.9		8.1		29.6		81.8		6.0	6.0	1.1		3			
C3	Fine	Calm	06:23	11.8	Middle	5.9	0.0	89	21.9 21.9	21.9	8.1 8.1	8.1	29.9	29.9	80.7 80.7	80.7	5.9 5.9	ļ	1.1	1.6	3	3	822086	817820
						5.9 10.8	0.1	96											1.1	-	4			
					Bottom	10.8	0.1 0.1	100 97	21.9 21.9	21.9	8.1 8.1	8.1	30.2	30.2	81.1 81.2	81.2	6.0	6.0	2.7	-	2			
				l		1.0	0.0	25	21.8		8.1		29.5		93.6		6.9	<u> </u>	2.4		3			
					Surface	1.0	0.0	28	21.8	21.8	8.1	8.1	29.5	29.5	93.6	93.6	6.9		2.4	-	4			
						3.1	0.0	14	21.6		8.1		30.2		93.5		6.9	6.9	4.3		3			
IM1	Cloudy	Moderate	05:08	6.2	Middle	3.1	0.1	12	21.6	21.6	8.1	8.1	30.3	30.3	93.6	93.6	6.9	ł	4.6	4.7	3	3	818333	806444
						5.2	0.0	15	21.4		8.1		31.2		94.2		6.9		7.4	1	3			
					Bottom	5.2	0.0	18	21.4	21.4	8.1	8.1	31.2	31.2	94.2	94.2	6.9	6.9	7.3		2			
					Ourton	1.0	0.1	15	21.8	04.0	8.1	0.4	29.3	00.0	94.3	04.0	7.0		2.9		2			
					Surface	1.0	0.1	8	21.8	21.8	8.1	8.1	29.4	29.3	94.3	94.3	7.0	7.0	3.2		3			
IM2	Cloudy	Moderate	05:11	6.0	Middle	3.4	0.1	11	21.5	21.5	8.1	8.1	30.7	30.8	93.6	93.6	6.9	7.0	5.5	5.1	3	3	819188	806214
IIVIZ	Cloudy	Moderate	05:11	6.8	ivildale	3.4	0.1	16	21.4	21.5	8.1	8.1	30.8	30.8	93.6	93.6	6.9	1	5.7	5.1	4	3	819188	806214
					Bottom	5.8	0.1	46	21.4	21.4	8.1	8.1	31.2	31.2	93.8	93.9	6.9	6.9	6.6		3			
					Dollom	5.8	0.1	48	21.4	21.4	8.1	0.1	31.2	31.2	93.9	33.3	6.9	0.9	6.5		4			
					Surface	1.0	0.0	63	22.0	22.0	8.0	8.0	26.4	26.4	92.9	92.9	7.0		1.9		3			
					Guilado	1.0	0.0	62	22.0	22.0	8.0	0.0	26.4	20.7	92.9	02.0	7.0	7.0	2.0		2			
IM7	Cloudy	Moderate	05:44	8.5	Middle	4.3	0.1	66	21.7	21.7	8.1	8.1	27.2	27.2	93.0	93.1	7.0		3.4	3.4	3	4	821370	806821
	0.000		33	0.0		4.3	0.1	66	21.7		8.1	J	27.1		93.1		7.0		3.6		4	i i	02.0.0	000021
					Bottom	7.5	0.1	69	21.5	21.5	8.1	8.1	30.2	30.2	93.6	93.7	6.9	6.9	4.6	1	5			
						7.5	0.1	64	21.5	-	8.1		30.2		93.7		6.9		4.7		4			

DA: Depth-Averaged

Water Quality Monitoring Results on 13 April 23 during Mid-Flood Tide

Trate: Qua	,	orning Kest	1110 011		13 April 23	during wid-		uc																
Monitoring	Weather	Sea	Sampling	Water	0 " -		Current Speed	Current	Water Te	emperature (°C)		рН	Salin	ity (ppt)		aturation %)	Disso Oxy		Turbidity	(NTU)	Suspende (mg/		Coordinate	Coordinate
Station	Condition	Condition	Time	Depth (m)	Sampling Dep	th (m)	(m/s)	Direction	Value	Average	Value	Average	Value	Average		Average	Value	DA	Value	DA	Value	DA	HK Grid (Northing)	HK Grid (Easting)
						1.0	0.0	75	22.1		8.0		25.3		85.8		6.5		1.7		5			
					Surface	1.0	0.0	75	22.1	22.1	8.0	8.0	25.3	25.3	85.6	85.7	6.4		1.8	1	4			
****		0.1	07.00			4.6	0.0	63	22.0	22.2	8.0		27.2		85.2	0.5.0	6.4	6.4	2.5		3			
IM10	Fine	Calm	07:22	9.2	Middle	4.6	0.0	57	22.0	22.0	8.0	8.0	26.5	26.8	85.3	85.3	6.4		2.5	2.5	4	4	822259	809849
					D. II.	8.2	0.1	96	22.0	00.4	8.0	0.0	27.6	07.7	86.3	00.7	6.4	0.5	3.1	1	3			
					Bottom	8.2	0.0	98	22.1	22.1	8.0	8.0	27.8	27.7	87.0	86.7	6.5	6.5	3.2	1	3			
					Curtosa	1.0	0.0	54	22.1	22.4	8.0	0.0	26.7	20.7	87.8	07.7	6.6		1.1		3			
					Surface	1.0	0.0	50	22.1	22.1	8.0	8.0	26.7	26.7	87.6	87.7	6.5	6.5	1.1	1	3			
IM11	Fine	Calm	07:15	8.4	Middle	4.2	0.0	51	22.1	22.1	8.0	8.0	26.8	26.0	87.3	87.4	6.5	6.5	1.3	1.4	2	3	821492	810547
IIVI I	rine	Callii	07.13	0.4	Mildale	4.2	0.1	49	22.1	22.1	8.0	0.0	26.8	26.8	87.4	07.4	6.5		1.4	1.4	3	3	021492	610347
					Bottom	7.4	0.0	81	22.1	22.1	8.0	8.0	26.9	26.8	88.4	88.6	6.6	6.6	1.8	1	2			
					DOLLOITI	7.4	0.0	82	22.1	22.1	7.9	0.0	26.8	20.0	88.8	00.0	6.6	6.6	1.8		2			
					Surface	1.0	0.0	64	22.1	22.1	8.0	8.0	26.9	26.9	88.3	88.2	6.6		1.0		4			
					Surface	1.0	0.0	58	22.1	22.1	8.0	0.0	26.9	20.9	88.1	00.2	6.6	6.6	1.0		5			
IM12	Fine	Calm	07:10	8.2	Middle	4.1	0.0	67	22.1	22.1	8.0	8.0	27.0	27.0	87.6	87.6	6.5	0.0	1.2	1.2	4	4	821168	811513
IIVI I Z	rine	Callii	07.10	0.2	Mildale	4.1	0.0	65	22.1	22.1	8.0	0.0	27.0	27.0	87.6	07.0	6.5		1.2	1.2	4	4	021100	011313
					Bottom	7.2	0.0	70	22.1	22.1	8.0	7.9	27.1	27.1	88.4	88.8	6.6	6.6	1.3		4			
					Dottom	7.2	0.1	71	22.1	22.1	7.9	1.5	27.1	21.1	89.1	00.0	6.6	0.0	1.3		3			
					Surface	1.0	0.0	263	22.2	22.2	8.0	8.0	26.2	26.2	90.9	90.9	6.8		1.1		5			
					Surface	1.0	0.1	269	22.2	22.2	8.0	0.0	26.2	20.2	90.9	30.3	6.8	6.8	1.1		4			
SR1A	Fine	Calm	06:53	4.8	Middle	2.4	0.1	261	-	_	-	_	-	_	-	_	-	0.0	-	1.1	-	4	819971	812663
OKIA	1 1110	Cairi	00.55	4.0	Middle	2.4	0.1	266	-		-	_	-		-		-		-	] '''	-	7	013371	012003
					Bottom	3.8	0.0	277	22.2	22.2	8.0	8.0	26.3	26.2	91.1	91.1	6.8	6.8	1.2		4			
					Bottom	3.8	0.0	283	22.2	22.2	8.0	0.0	26.2	20.2	91.0	01.1	6.8	0.0	1.2		3			
					Surface	1.0	0.1	149	22.2	22.2	8.0	8.0	26.6	26.6	91.4	91.4	6.8		1.5		5			
					Gundoo	1.0	0.1	146	22.2		8.0	0.0	26.6	20.0	91.3	• • • • • • • • • • • • • • • • • • • •	6.8	6.8	1.5		5			
SR2	Fine	Calm	06:41	4.2	Middle	-	0.0	140	-	_	-	_	-	_	-	_	-	0.0	_	1.9	-	4	821462	814165
						-	0.0	133	-		-		-		-		-		-	1	-	•		
					Bottom	3.2	0.0	150	22.2	22.2	8.0	8.0	26.7	26.7	91.5	91.6	6.8	6.8	2.4		3			
					=	3.2	0.1	142	22.2		8.0		26.7		91.7		6.8		2.4		3			
					Surface	1.0	0.0	82	21.9	21.9	8.0	8.0	26.0	26.0	91.4	91.4	6.9		2.6		2			
						1.0	0.0	77	21.8		8.0		26.0		91.3		6.9	6.9	2.8		2			
SR3	Cloudy	Moderate	05:52	8.5	Middle	4.3	0.0	79	21.7	21.7	8.1	8.1	28.3	28.3	91.5	91.6	6.8		4.3	4.1	2	2	822158	807564
	Í					4.3	0.0	75	21.6		8.1		28.3		91.6		6.8		4.4	4	2			
					Bottom	7.5	0.0	86	21.7	21.8	8.1	8.1	28.9	28.9	92.0	92.1	6.8	6.8	5.4	4	<2			
						7.5	0.1	87	21.8		8.1		28.9		92.1		6.8		5.4		<2			
					Surface	1.0	0.0	292	22.1	22.1	8.0	8.0	25.9	25.9	93.6	93.6	7.0		3.4	4	2			
						1.0	0.1	293	22.1		8.0		25.9		93.6		7.0	7.0	3.4		2			
SR4A	Cloudy	Moderate	04:21	8.6	Middle	4.3	0.0	295	21.6	21.6	7.9	7.9	29.0	29.0	92.1 92.1	92.1	6.9		3.6	3.7	3	3	817200	807803
							0.1	289	21.6				29.0				6.9		3.7		2			
					Bottom	7.6	0.0	305 303	22.0 22.0	22.0	8.0	8.0	28.9	28.9	93.5 93.6	93.6	6.9	6.9	4.2	4	3			
								<del>-</del>												1				
					Surface	1.0	-	-	22.3	22.3	8.0	8.0	26.8 26.8	26.8	91.1	91.1	6.8		1.4	-	3			
						1.0	-	-	22.3		8.0		26.8		91.1		6.8 -	6.8	1.3	-	_			
SR8	Fine	Calm	07:06	4.4	Middle	-	-		-	-	-	-	-	-	-	-	-		-	1.7	-	3	820383	811615
						3.4	-	-							_					1	4			
					Bottom	3.4	-	-	22.3	22.3	8.0	8.0	26.8	26.8	91.1	91.5	6.8	6.8	2.1	-	3			
A: Dopth Avor						3.4		-	22.3		შ.∪	l	∠ხ.გ		91.9		ზ.შ		Z. I		3			l

DA: Depth-Averaged

Water Quality Monitoring Results on 15 April 23 during Mid-Ebb Tide

	.,	oring Resu			15 April 25	during wid-		•															
ivionitoring	Weather	Sea	Sampling	Water	Sampling Dept	h (m)	Current Speed	Current	Water Te	emperature (°C)	рН	Saliı	nity (ppt)		aturation (%)	Disso Oxy		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	0.1	210	22.2	22.2	8.0	26.4	26.4	98.0	98.1	7.3		2.7		4			
					Surface	1.0	0.1	213	22.2	22.2	8.0	26.4	20.4	98.1	30.1	7.3	7.1	2.9		3			
C1	Foggy	Moderate	09:25	8.4	Middle	4.2	0.1	217	21.9	21.9	8.0	30.4	30.4	94.1	94.1	6.9	7.1	4.0	5.4	3	4	815642	804265
C1	i oggy	Woderate	09.23	0.4	Middle	4.2	0.1	220	21.9	21.9	8.0	30.4	30.4	94.1	34.1	6.9		3.6	3.4	4	4	013042	004203
					Bottom	7.4	0.1	210	21.9	21.9	8.0	30.5	30.5	94.1	94.2	6.9	6.9	9.4		5			
					Bottom	7.4	0.2	207	21.9	21.5	8.0	30.5	30.5	94.2	34.2	6.9	0.3	9.7		4			
					Surface	1.0	0.2	164	22.6	22.6	7.9	23.5	23.5	96.1	96.0	7.3		1.6		2			
					Surface	1.0	0.2	164	22.6	22.0	7.9	23.6	23.3	95.9	90.0	7.2	7.1	1.7		3			
C2	Foggy	Moderate	11:16	11.8	Middle	5.9	0.3	177	22.4	22.4	7.9	27.0	27.0	94.7	94.7	7.0	7.1	3.5	4.9	3	3	825684	806955
02	i oggy	Woderate	11.10	11.0	Middle	5.9	0.3	172	22.4	22.4	7.9	27.0	27.0	94.7	34.7	7.0		3.6	4.9	4	3	023004	800933
					Bottom	10.8	0.3	196	22.4	22.4	7.9 7.9	27.0	27.0	95.7	96.1	7.1	7.2	9.8		4			
					Bottom	10.8	0.3	191	22.4	22.4	7.9	27.0	27.0	96.5	30.1	7.2	1.2	9.2		3			
					Surface	1.0	0.2	94	22.1	22.1	8.0	27.4	27.4	91.3	91.2	6.8		1.2		3			
					Surface	1.0	0.2	89	22.1	22.1	8.0	27.5	27.4	91.1	91.2	6.7	6.7	1.3		2			
С3	Misty	Calm	10:24	11.0	Middle	5.5	0.1	94	22.1	22.1	8.0	28.9	29.0	89.3 89.4	89.4	6.6	0.7	1.3	1.8	2	2	822122	817794
CS	iviisty	Callii	10.24	11.0	Middle	5.5	0.2	88	22.1	22.1	8.0	29.1	29.0	89.4	09.4	6.6		1.3	1.0	2	2	022122	017794
					Bottom	10.0	0.1	92	22.1	22.1	8.0	31.0	31.0	89.9	90.0	6.5	6.5	2.8		3			
					DOLLOITI	10.0	0.1	91	22.1	22.1	8.0	31.0	31.0	90.0	90.0	6.5	6.5	2.8		2			
					Surface	1.0	0.0	198	22.2	22.2	8.0	26.3	26.4	98.2	98.1	7.3		2.2		<2			
					Surface	1.0	0.1	198	22.2	22.2	8.0	26.4	20.4	98.0	30.1	7.3	7.2	2.4		<2			
IM1	Foggy	Moderate	09:49	6.8	Middle	3.4	0.1	184	22.0	22.0	8.0	30.0	30.0	97.1 97.1	97.1	7.1	1.2	3.9	3.8	<2	2	818331	806474
11011	i oggy	Moderate	03.43	0.0	Middle	3.4	0.0	183	22.0	22.0	8.0	30.1	30.0	97.1	37.1	7.1		4.1	5.0	<2	2	010331	000474
					Bottom	5.8	0.1	176	21.9	22.0	7.9 7.9	30.3	30.3	97.5	97.6	7.2	7.2	5.0		2			
					Dottom	5.8	0.0	177	22.0	22.0	7.9	30.3	30.3	97.6	37.0	7.2	1.2	5.1		2			
					Surface	1.0	0.1	214	22.1	22.1	8.0	26.8	26.8	98.9	98.9	7.4		4.3		2			
					Ourlace	1.0	0.1	207	22.1	22.1	8.0	26.8	20.0	98.8	30.3	7.4	7.2	4.7		2			
IM2	Foggy	Moderate	09:55	6.8	Middle	3.4	0.1	199	21.9	21.9	8.0	30.4	30.4	95.4	95.4	7.0	1.2	6.1	6.2	2	2	819169	806247
IIVIZ	i oggy	Moderate	03.55	0.0	Middle	3.4	0.1	203	21.9	21.9	8.0	30.4	30.4	95.4	35.4	7.0		6.2	0.2	2	2	013103	000247
					Bottom	5.8	0.1	190	21.9	21.9	8.0	30.4	30.4	95.3 95.2	95.3	7.0	7.0	8.0		2			
					Bottom	5.8	0.1	188	21.9	21.5	8.0	30.4	30.4	95.2	30.0	7.0	7.0	7.8		3			
					Surface	1.0	0.1	192	23.1	23.1	7.9	20.6	20.6	99.9 99.9	99.9	7.6		1.0		2			
					Guilace	1.0	0.1	189	23.1	23.1	7.9	20.7	20.0	99.9	33.3	7.6	7.4	1.1	]	3			
IM7	Foggy	Moderate	10:33	7.4	Middle	3.7	0.1	186	22.5	22.5	7.9 7.9	26.1	26.1	95.3	95.4	7.1	7.4	2.6	2.1	3	3	821364	806824
IIVI <i>I</i>	ı oggy	Moderate	10.55	7.4	Middle	3.7	0.1	183	22.5	22.5	7.9	26.1	20.1	95.4	33.4	7.1		2.7	2.1	2	3	021304	000024
					Bottom	6.4	0.1	181	22.5	22.5	7.9 7.9	26.5	26.4	97.1	97.2	7.2	7.2	2.6		3			
					DULLUIII	6.4	0.1	182	22.5	22.5	7.9	26.4	20.4	97.3	91.2	7.2	1.2	2.6		2			

DA: Depth-Averaged

Water Quality Monitoring Results on 15 April 23 during Mid-Ebb Tide

water Quar		ornig ittoca			13 April 23	uuring miu-																		
Monitoring	Weather	Sea	Sampling	Water	Carrellian Desir	h (m)	Current Speed	Current	Water Te	emperature (°C)	pН		Salinity	(ppt)		aturation %)	Disso Oxyg		Turbidity	(NTU)	Suspende (mg/		Coordinate	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling Dept	n (m)	(m/s)	Direction	Value	Average	Value Avera	age Va	/alue A	verage	Value	Average	Value	DA	Value	DA	Value	DA	HK Grid (Northing)	(Easting)
					0	1.0	0.1	122	22.0	00.0	8.0	, 2	23.3	00.0	94.2	04.4	7.2		1.8		2			
					Surface	1.0	0.2	127	22.0	22.0	8.0		23.3	23.3	94.0	94.1	7.1		1.9		2			
			44.00			4.7	0.1	120	22.0		8.0	. 20	26.0		94.1		7.0	7.1	2.6		2			
IM10	Misty	Calm	11:23	9.4	Middle	4.7	0.1	117	22.0	22.0	8.0		26.0	26.0	94.4	94.3	7.1		2.6	2.6	2	2	822255	809857
					5	8.4	0.1	145	22.0		8.0	. 20	26.1		96.3		7.2		3.2		3			
					Bottom	8.4	0.1	145	22.0	22.0	8.0		26.1	26.1	97.7	97.0	7.3	7.3	3.3		3			
					Cuntaga	1.0	0.2	99	22.2	22.2	8.0	. 2	24.8	24.0	98.6	00.0	7.4		1.2		3			
					Surface	1.0	0.2	100	22.2	22.2	8.0	2	24.9	24.8	99.0	98.8	7.4	7.3	1.2		2			
IM11	Miotr	Calm	11:17	8.8	Middle	4.4	0.1	97	22.2	22.2	8.0	. 2	25.2	25.2	94.4	94.4	7.1	7.3	1.4	1.5	3	3	821500	810540
IIVI I	Misty	Callii	11.17	0.0	ivildale	4.4	0.1	98	22.2	22.2	8.0	2	25.2	25.2	94.3	94.4	7.1		1.5	1.5	2	3	621500	610540
					Bottom	7.8	0.2	98	22.2	22.2	8.0	. 2	25.3	25.3	95.8	96.2	7.2	7.2	1.9		3			
					DULLOITI	7.8	0.2	104	22.2	22.2	8.0	2	25.3	25.5	96.5	90.2	7.2	1.2	1.9		3			
					Surface	1.0	0.1	86	22.2	22.2	8.0	. 2	25.2	25.2	96.7	96.5	7.2		1.1		3			
					Surface	1.0	0.1	79	22.2	22.2	8.0	2	25.2	25.2	96.3	90.5	7.2	7.2	1.2		2			
IM12	Misty	Calm	11:12	8.4	Middle	4.2	0.1	92	22.2	22.2	8.0	. 2	25.5	25.5	95.0	94.8	7.1	1.2	1.3	1.3	2	2	821138	811503
110112	iviisty	Callii	11.12	0.4	ivildule	4.2	0.1	88	22.2	22.2	8.0	2	25.5	25.5	94.6	94.0	7.1		1.3	1.3	2	2	021130	011303
					Bottom	7.4	0.2	69	22.2	22.2	8.0	. 2	25.6	25.6	97.9	98.2	7.3	7.4	1.4		2			
					BULLOITI	7.4	0.1	65	22.2	22.2	8.0	2	25.6	25.6	98.4	90.2	7.4	7.4	1.5		2			
					Surface	1.0	0.0	158	22.0	22.0	8.0	. 2	25.4	25.4	97.9	98.0	7.4		1.2		2			
					Surface	1.0	0.0	161	22.0	22.0	8.0	2	25.4	25.4	98.0	90.0	7.4	7.4	1.3		2			
SR1A	Misty	Calm	10:54	5.0	Middle	2.5	0.0	170	-	_	-		-		-	_	-	7.4	-	1.3	-	2	819981	812659
OKIA	iviloty	Cairi	10.54	5.0	Wildale	2.5	0.0	176	-		-		-		-		-		-	1.5	-	2	013301	012033
					Bottom	4.0	0.0	157	22.0	22.0	8.0		25.5	25.4	98.3	98.3	7.4	7.4	1.3		<2			
					Bottom	4.0	0.1	152	22.0	22.0	8.0	2	25.4	20.4	98.3	50.0	7.4	7	1.4		<2			
					Surface	1.0	0.1	102	22.0	22.0	8.0		27.2	27.2	101.6	101.5	7.6		1.6		<2			
					- Curiaco	1.0	0.1	108	22.0	22.0	8.0	2	27.2		101.4	.00	7.5	7.6	1.6		<2			
SR2	Misty	Calm	10:42	4.4	Middle	-	0.0	80	-	_			-		-	_	-	7.0	-	2.1	-	2	821466	814159
•					***************************************	-	-	74	-		-		-		-		-		-		-	_		
					Bottom	3.4	0.1	74	22.0	22.0	8.0		27.4	27.4	101.6	101.7	7.5	7.6	2.6		2			
						3.4	0.1	71	22.0		8.0	2	27.4		101.8		7.6		2.6		2			
					Surface	1.0	0.2	161	22.6	22.6	7.9		22.9	22.9	94.9	94.8	7.2		1.2		2			
						1.0	0.2	160	22.6		7.9	2	23.0		94.7		7.2	7.1	1.2		2			
SR3	Foggy	Moderate	10:40	8.7	Middle	4.4	0.3	172	22.4	22.4	7.9		26.5	26.5	93.1	93.1	6.9		1.6	1.5	2	2	822167	807577
	007					4.4	0.3	167	22.4		7.9	20	26.5		93.1		6.9		1.6		2			
					Bottom	7.7	0.3	182	22.4	22.4	7.9 7.9		26.7	26.7	94.4	94.5	7.0	7.0	1.6		3			
						7.7	0.3	178	22.4		7.9	2	26.7		94.6		7.0		1.6		2			
					Surface	1.0	0.0	100	22.5	22.5	7.9 7.9		26.4	26.4	93.3	93.3	6.9		3.1		5			
						1.0	0.1	104	22.5		7.9		26.4		93.2		6.9	6.9	3.1		4			
SR4A	Foggy	Moderate	08:58	9.1	Middle	4.6 4.6	0.0	103	22.4	22.4	7.9 7.9		26.4	26.4	92.9 92.9	92.9	6.9 6.9		3.5	3.4	5	4	817191	807820
							0.0	101	22.4		7.9		26.4						3.5		4			
					Bottom	8.1 8.1	0.0	94 88	22.5 22.5	22.5	7.9 7.9	1	26.0 26.0	26.0	92.9 92.9	92.9	6.9 6.9	6.9	3.7		3			
				1		1.0	-							-										
					Surface	1.0	-	-	22.0 22.0	22.0	8.0		25.4 25.4	25.4	100.4	100.3	7.5		1.5 1.5		3			
						1.0	-	-	22.0		8.0		25.4		100.2		7.5	7.5	1.5	-				
SR8	Misty	Calm	11:07	4.6	Middle	-	-		-	-	-		-	-  -	-	-	-		-	1.9	-	2	820387	811622
						3.6	-	-	22.0					+					2.3	1	2			
					Bottom	3.6	-	-	22.0	22.0	8.0 8.1		25.3 25.3	25.3	100.2 99.9	100.1	7.5 7.5	7.5	2.3	-	2			
			1			ა.ხ	-	-	22.0		δ. I	2	دن.ن		99.9		1.5		∠.3		2			

Water Quality Monitoring Results on 15 April 23 during Mid-Flood Tide

Water Qua	ity worm	orning ixcou	113 011		13 April 23	during wid-		uc																
Monitoring	Weather	Sea	Sampling	Water	Sampling Dep	th (m)	Current Speed	Current	Water Te	emperature (°C)	р	ЭΗ	Salin	ity (ppt)	DO S	aturation (%)	Disso Oxy	olved gen	Turbidity	(NTU)	Suspende (mg		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Camping Dep		(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.3	39	23.2	23.2	8.0	8.0	25.7	25.7	99.5	99.6	7.3		2.9		<2			
					Surface	1.0	0.2	44	23.2	23.2	8.0	0.0	25.7	20.1	99.6	99.0	7.4	7.1	3.2	1	<2	1		
C1	Foggy	Moderate	14:30	8.8	Middle	4.4	0.2	28	22.0	22.0	8.0	8.0	30.3	30.3	94.1	94.0	6.9	7.1	7.3	4.6	3	3	815616	804242
Ci	Foggy	Woderate	14.30	0.0	ivildule	4.4	0.2	28	22.0	22.0	8.0	6.0	30.4	30.3	93.8	94.0	6.9		7.6	4.6	2	3	013010	004242
					Bottom	7.8	0.2	28	22.0	22.0	8.0	8.0	30.4	30.4	95.0	95.1	7.0	7.0	3.5		4			
					DOLLOTT	7.8	0.2	29	22.0	22.0	8.0	0.0	30.4	30.4	95.2	93.1	7.0	7.0	3.1		2			
					Surface	1.0	0.1	182	22.8	22.8	7.9	7.9	22.0	21.9	98.5	98.6	7.5		1.0		2			
					Surface	1.0	0.1	187	22.8	22.0	7.9	1.5	21.9	21.5	98.6	90.0	7.5	7.3	1.1		3			
C2	Foggy	Moderate	12:49	11.2	Middle	5.6	0.1	175	22.4	22.4	7.9	7.9	27.0	27.0	94.2	94.2	7.0	7.5	3.1	2.4	3	3	825672	806957
02	i oggy	Moderate	12.43	11.2	Wildale	5.6	0.1	172	22.4	22.4	7.9	7.5	27.0	21.0	94.2	34.2	7.0		3.2	2.4	2	٦	023072	000337
					Bottom	10.2	0.0	190	22.4	22.4	7.9	7.9	27.0	27.0	94.6	94.7	7.0	7.0	3.0	1	3			
					Bottom	10.2	0.0	189	22.4	22.7	7.9	7.0	27.0	27.0	94.7	04.1	7.0	7.0	3.0		2			
					Surface	1.0	0.3	244	22.1	22.1	8.0	8.0	25.4 25.4	25.4	96.0	96.1	7.2		1.3		<2			
						1.0	0.3	242	22.1		8.0				96.1		7.2	7.1	1.3		<2			
C3	Misty	Calm	13:57	11.0	Middle	5.5	0.3	251	22.1	22.1	8.0	8.0	29.1	29.2	96.2	95.9	7.0		1.6	1.9	2	2	822103	817779
						5.5	0.3	255	22.1		8.0		29.2		95.5		7.0		1.6		2			
					Bottom	10.0	0.3	244	22.1	22.1	8.0	8.0	29.5 29.5	29.5	95.2	95.1	7.0	7.0	2.6		3			
						10.0	0.3	242	22.1						95.0		6.9		2.7		2			
					Surface	1.0	0.1 0.1	29 34	22.5 22.4	22.5	8.0	8.0	26.7 26.7	26.7	99.7 99.5	99.6	7.4		1.9 2.2		2			
						3.5	0.1	22	22.4		8.0		30.5		97.3		7.4	7.3	4.0	1	2			
IM1	Foggy	Moderate	14:09	7.0	Middle	3.5	0.1	23	22.0	22.0	8.0	8.0	30.5	30.5	97.3	97.3	7.1	•	3.9	3.9	2	2	818346	806446
						6.0	0.1	353	21.9		8.0		30.6		96.4		7.1		5.5		<2			
					Bottom	6.0	0.1	351	21.9	21.9	8.0	8.0	30.5	30.5	96.5	96.5	7.1	7.1	5.7		<2			
					2 /	1.0	0.1	301	23.1	00.0	8.0		24.3		100.0		7.5		4.5		2			
					Surface	1.0	0.2	300	22.9	23.0	8.0	8.0	24.5	24.4	99.7	99.9	7.4	7.0	4.8	1	2			
1140		Madazi	44.05	7.4	A C d die	3.7	0.1	305	22.0	00.0	8.0	0.0	30.1	00.4	96.8	00.0	7.1	7.3	7.9	1	2	1 .	040404	000005
IM2	Foggy	Moderate	14:05	7.4	Middle	3.7	0.1	306	22.0	22.0	8.0	8.0	30.1	30.1	96.8	96.8	7.1	l	8.6	7.8	2	3	819181	806235
					Pottom	6.4	0.1	319	21.9	21.9	8.0	7.0	30.6	30.6	96.6	96.7	7.1	7.1	10.1	1	4			
					Bottom	6.4	0.1	314	21.9	21.9	7.9	7.9	30.6	30.0	96.7	90.7	7.1	7.1	10.8		3			
					Surface	1.0	0.1	264	22.6	22.6	7.9	7.9	21.7	21.7	96.0	96.0	7.3		1.8		2			
					Surface	1.0	0.1	262	22.6	22.0	7.9	7.9	21.7	21.7	95.9	90.0	7.3	7.3	1.9		3			
IM7	Foggy	Moderate	13:33	8.1	Middle	4.1	0.1	285	22.5	22.5	7.9	7.9	26.5	26.5	96.3	96.4	7.2	1.3	2.3	2.2	4	4	821352	806840
IIVI7	i oggy	wouchate	13.33	0.1	Mildule	4.1	0.1	284	22.5	22.3	7.9	1.5	26.5	20.3	96.4	30.4	7.2		2.3	2.2	3	]	021002	000040
					Bottom	7.1	0.1	271	22.5	22.5	7.9	7.9	26.6	26.6	98.1	98.3	7.3	7.3	2.5	]	4			
					Bottom	7.1	0.1	273	22.5	22.0	7.9	1.0	26.6	20.0	98.4	30.3	7.3	1.5	2.5		5			1

DA: Depth-Averaged

Water Quality Monitoring Results on 15 April 23 during Mid-Flood Tide

Water Qual	ity wonite	Jillig Kesu	its on		15 April 23	during Mid-	Flood II	ae																
Monitoring	Weather	Sea	Sampling	Water	Sampling De	oth (m)	Current Speed	Current	Water Te	mperature (°C)	р	Н	Salin	ity (ppt)		aturation (%)	Disso Oxy		Turbidity	(NTU)	Suspender (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling De	рит (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	0.0	241	22.2	22.2	8.0	8.0	23.5	23.5	98.5	98.4	7.5		1.5		4			
						1.0	0.0	243	22.2		8.0		23.5		98.3		7.4	7.4	1.5		4			
IM10	Misty	Calm	12:51	9.6	Middle	4.8	0.0	224 227	22.2	22.2	8.0	8.0	24.4	24.4	98.0 98.1	98.1	7.4 7.4		1.8	2.2	2	3	822245	809848
					_	8.6	0.0	232	22.2		8.0		25.1		98.8		7.4		3.2		3			
					Bottom	8.6	0.1	228	22.2	22.2	8.0	8.0	25.0	25.0	99.2	99.0	7.4	7.4	3.2		2			
					Surface	1.0	0.1	286	22.1	22.1	8.0	8.0	24.1	24.2	98.3	98.2	7.4		1.6		3			
					Gunace	1.0	0.1	279	22.1	22.1	8.0	0.0	24.2	24.2	98.1	30.2	7.4	7.4	1.6		2			
IM11	Misty	Calm	13:01	8.0	Middle	4.0	0.2	259	22.1	22.1	8.0	8.0	24.7	24.8	97.4	97.5	7.3		2.0	1.9	2	2	821492	810546
	,					4.0 7.0	0.1	253 267	22.1		8.0		24.8		97.5		7.3		2.1		2			
					Bottom	7.0	0.1	264	22.1 22.1	22.1	8.0	8.0	24.8	24.7	98.6 99.3	99.0	7.4 7.5	7.5	2.2		<2 <2			
						1.0	0.1	303	22.1		8.0		23.9		96.6		7.3		1.3		2			
					Surface	1.0	0.1	299	22.0	22.0	8.0	8.0	24.0	24.0	96.4	96.5	7.3		1.3		2			
IMAG	Minter	Color	12.07	7.0	Middle	3.6	0.1	322	22.0	22.0	8.0	0.0	24.8	24.0	96.2	96.3	7.2	7.3	1.5	1.7	2	2	004450	811524
IM12	Misty	Calm	13:07	7.2	Middle	3.6	0.1	315	22.0	22.0	8.0	8.0	24.8	24.8	96.3	96.3	7.2		1.5	1.7	2	2	821156	811524
					Bottom	6.2	0.2	280	22.0	22.0	8.0	8.0	25.0	25.0	97.3	97.5	7.3	7.4	2.4		3			
					Bottom	6.2	0.2	275	22.0	22.0	8.0	0.0	25.0	20.0	97.7	07.0	7.4	77	2.4		3			
					Surface	1.0	0.0	178	22.2	22.2	8.0	8.0	24.5	24.5	100.8	100.7	7.6		2.0		2			
						1.0	0.1	180	22.2		8.0		24.6		100.5		7.5	7.6	1.9		2			
SR1A	Misty	Calm	13:19	5.4	Middle	2.7	0.0	185 183	-	-	-	-	-	-	-	-	-		-	1.8	-	2	819983	812664
						4.4	0.0	158	22.1		8.0		24.8		95.9		7.2		1.8		3			
					Bottom	4.4	0.0	159	22.1	22.1	8.0	8.0	24.8	24.8	95.9	95.9	7.2	7.2	1.7		2			
					Surface	1.0	0.1	230	22.3	22.3	8.0	0.0	24.2	24.2	100.2	99.8	7.5		1.2		<2			
					Surface	1.0	0.1	227	22.3	22.3	8.0	8.0	24.2	24.2	99.4	99.8	7.5	7.5	1.3		<2			
SR2	Misty	Calm	13:38	5.2	Middle	-	0.1	226	-	_	-	_	-	-		_	-	7.5	-	1.5	-	<2	821456	814179
0.12	···ioty	ou	10.00	0.2	madio	-	0.1	224	-		-		-		-		-		-		-		021100	011110
					Bottom	4.2	0.1	238	22.3	22.3	8.0	8.0	26.2	26.1	95.8	96.0	7.1	7.1	1.8		<2			
						4.2 1.0	0.1	243	22.3		8.0		26.1		96.1		7.1		1.9		<2			
					Surface	1.0	0.1	197 202	22.9 22.9	22.9	7.9 7.9	7.9	21.1	21.1	100.0 99.8	99.9	7.6 7.6		1.0		2			
						4.5	0.1	191	22.9		7.9		26.3		92.5		6.9	7.3	3.1		2			
SR3	Foggy	Moderate	13:24	8.9	Middle	4.5	0.1	186	22.4	22.4	7.9	7.9	26.4	26.3	92.7	92.6	6.9		3.2	2.2	2	2	822144	807584
					Pottom	7.9	0.1	202	22.4	22.4	7.9	7.0	27.1	27.1	96.5	06.7	7.2	7.0	2.3		2			
					Bottom	7.9	0.1	208	22.4	22.4	7.9	7.9	27.1	27.1	96.9	96.7	7.2	7.2	2.3		2			
					Surface	1.0	0.0	302	22.7	22.7	8.0	8.0	27.7	27.7	96.8	96.8	7.1		2.3		3			
						1.0	0.0	306	22.7		8.0		27.7		96.8	00.0	7.1	7.1	2.3		3			
SR4A	Foggy	Moderate	14:56	9.2	Middle	4.6	0.0	312	22.2	22.2	8.0	8.0	29.0	29.0	95.6	95.7	7.0		2.8	2.6	2	4	817172	807832
	,					4.6 8.2	0.1	318 318	22.2		8.0		29.1		95.7		7.0		2.8 2.8		4			
					Bottom	8.2	0.0	318	22.2	22.2	8.0	8.0	29.1	29.1	96.1 96.2	96.2	7.1 7.1	7.1	2.8		5			
						1.0	-	-	22.1		8.0		24.1		98.5	l l	7.4		2.4		<2			
					Surface	1.0	-	-	22.1	22.1	8.0	8.0	24.2	24.1	96.9	97.7	7.3	<b>.</b> .	2.4		<2			
SR8	Michy	Colm	13:11	4.8	Middle	-	-	-	-		-		-		-	1	-	7.4	-	2.8	-	-0	820367	811609
SKO	Misty	Calm	13:11	4.8	ivildale	-	-	-	-		-		-	_	-	<u> </u>	-		-	2.8	-	<2	020307	011009
					Bottom	3.8	-	-	22.1	22.1	8.0	8.0	24.5	24.4	98.9	99.2	7.4	7.5	3.1		<2			
DA: Dooth Avor					201.0	3.8	-	-	22.1		8.0	0.0	24.4		99.5	00.2	7.5		3.1		<2			

DA: Depth-Averaged

Water Quality Monitoring Results on 18 April 23 during Mid-Ebb Tide

Water Quar	ity wont	oring Resu	iits on		18 April 23	auring Mia-	EDD HIGE	•																
Monitoring	Weather	Sea	Sampling	Water	Sampling Dept	h (m)	Current Speed	Current	Water Te	emperature (°C)	р	Н	Salin	ity (ppt)		aturation (%)	Disso Oxy		Turbidity	y(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	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Ourfa	1.0	0.4	198	24.1	24.1	8.2	0.0	29.6	00.0	105.9	405.7	7.5		3.2		3			
					Surface	1.0	0.4	197	24.1	24.1	8.2	8.2	29.6	29.6	105.4	105.7	7.5	7.4	3.3		4			
C1	Cloudy	Moderate	12:24	8.5	Middle	4.3	0.5	229	24.0	24.0	8.2	8.2	29.9	29.8	101.8	101.8	7.2	7.4	5.0	5.2	4	4	815639	804249
CI	Cloudy	Moderate	12:24	8.5	Middle	4.3	0.5	231	24.0	24.0	8.2	8.2	29.8	29.8	101.8	101.8	7.2		4.9	5.2	4	4	815639	804249
					Bottom	7.5	0.4	223	24.1	24.1	8.2 8.2	8.2	29.7	29.7	102.3	102.4	7.3	7.3	7.4	1	5			
					DOLLOITI	7.5	0.4	224	24.1	24.1	8.2	0.2	29.7	29.7	102.4	102.4	7.3	7.3	7.3		4			
					Surface	1.0	0.2	168	24.4	24.4	8.1	8.1	27.7	27.8	104.1	104.1	7.4		2.4		3			
					Sulface	1.0	0.2	169	24.4	24.4	8.1	0.1	27.8	27.0	104.1	104.1	7.4	7.2	2.7		3			
C2	Cloudy	Moderate	10:39	11.9	Middle	6.0	0.2	160	24.1	24.1	8.1	8.1	29.1	29.1	98.8 98.8	98.8	7.0	1.2	7.3	7.2	2	3	825689	806962
02	Cloudy	Moderate	10.59	11.5	Middle	6.0	0.1	167	24.1	24.1	8.1	0.1	29.1	25.1	98.8	50.0	7.0		7.7	1.2	3	3	023009	000302
					Bottom	10.9	0.2	182	24.1	24.1	8.1	8.1	28.8	28.8	99.4	99.4	7.1	7.1	11.8		2			
					Bottom	10.9	0.1	185	24.1	24.1	8.1	0.1	28.8	20.0	99.4	33.4	7.1	7.1	11.3		2			
					Surface	1.0	0.3	65	22.9	22.9	7.7	7.7	27.9	28.0	97.1	97.1	7.1		1.6		3			
					Ourlace	1.0	0.3	61	22.9	22.5	7.7	7.7	28.0	20.0	97.0	37.1	7.1	7.1	1.5		4			
СЗ	Misty	Calm	11:34	9.6	Middle	4.8	0.4	68	22.8	22.8	7.7	7.7	28.4	28.5	96.6 96.5	96.6	7.1	7.1	1.9	2.1	4	4	822109	817809
03	iviisty	Cairi	11.54	5.0	Wilddle	4.8	0.4	62	22.8	22.0	7.7	7.7	28.5	20.5		30.0	7.1		1.9	2.1	4	7	022103	017003
					Bottom	8.6	0.4	68	22.7	22.7	7.7	7.7	28.9	28.8	96.9 96.9	96.9	7.1	7.1	2.9		5			
					Bottom	8.6	0.3	64	22.7	22.1	7.7	7.7	28.8	20.0	96.9	30.3	7.1	7.1	2.9		4			
					Surface	1.0	0.2	180	24.4	24.4	8.2	8.2	29.0	29.0	107.8	107.8	7.6		4.0		3			
					Curidoc	1.0	0.3	187	24.4	2-17	8.2	0.2	29.0	20.0	107.8	107.0	7.6	7.6	4.1		3			
IM1	Cloudy	Moderate	12:01	6.5	Middle	3.3	0.3	203	24.2	24.2	8.2	8.2	29.4	29.4	107.3	107.3	7.6	7.0	5.2	3.9	3	3	818341	806481
	o.ouu)	moderate	12.01	0.0	- Inidaio	3.3	0.3	195	24.2		8.2	0.2	29.4	20	107.3	101.0	7.6		5.4		2	Ü	0.0011	000.0.
					Bottom	5.5	0.3	216	24.1	24.1	8.1	8.1	29.6	29.5	102.2	102.3	7.3	7.3	2.3		3			
						5.5	0.3	209	24.1		8.1		29.5		102.4		7.3		2.5		3			
					Surface	1.0	0.2	195	24.2	24.2	8.2	8.2	29.1	29.1	100.9	100.9	7.2		2.2		2			
						1.0	0.3	193	24.2		8.2		29.1				7.2	7.2	2.3		4			
IM2	Cloudy	Moderate	11:52	7.3	Middle	3.7	0.2	194	24.1	24.1	8.2	8.2	29.3	29.3	100.8	100.9	7.2		2.9	4.5	3	3	819198	806215
	,					3.7	0.2	199	24.1		8.2		29.3		100.9				2.9		3			
					Bottom	6.3	0.2	204	24.1	24.1	8.2	8.2	29.3	29.3	102.4	102.6	7.3	7.3	8.0		3			
						6.3	0.2	203	24.1		8.2		29.3		102.8		7.3		8.4		2			
					Surface	1.0	0.1	133	24.4	24.4	8.2	8.2	27.8	27.8	105.7	105.7	7.5		0.8	4	3			
						1.0	0.1	135	24.4		8.2		27.8		105.7		7.5	7.4	0.9	4	3			
IM7	Cloudy	Moderate	11:17	8.2	Middle	4.1	0.2	119	24.2	24.2	8.2	8.2	29.2	29.2	102.3 102.3	102.3	7.3		2.2	1.7	5	4	821346	806822
						4.1	0.2	112	24.2		8.2		29.2						2.3	4	4			
					Bottom	7.2	0.2	144	24.2	24.2	8.2	8.2	29.1	29.1	102.6	102.7	7.3	7.3	2.1	4	5			
DA: Donth Avor					1	7.2	0.2	142	24.2		8.2		29.0		102.7		7.3		2.0		5			

DA: Depth-Averaged

Water Quality Monitoring Results on 18 April 23 during Mid-Ebb Tide

Water Quar	,	g			16 April 23	uuring wiu-																		
Monitoring Station	Weather	Sea	Sampling	Water	Occupita a Depth (a)		Current Speed (m/s)	Current	Water Temperature (°C)		pН		Salin	Salinity (ppt)		DO Saturation (%)		olved gen	Turbidity(NTU)		Suspended Solids (mg/L)		Coordinate	Coordinate
	Condition	Condition	Time	Depth (m)	Sampling Dept	Direction		Value	Average	Value	Average	Value	Average		Average	Value	DA	Value	DA	Value	DA	HK Grid (Northing)	HK Grid (Easting)	
						1.0	0.2	90	23.6		7.8		26.2		104.7		7.6		3.9		3			
IMAO	Misty	Calm	10:30	9.0	Surface	1.0	0.2	88	23.6	23.6	7.8	7.8	26.3	26.3	104.5	104.6	7.6		4.0	1	3			809833
					Middle	4.5	0.2	84	23.5	23.5	7.8		26.5		103.8	400 =	7.6	7.6	5.0	5.2	3			
IM10						4.5	0.2	91	23.5		7.8	7.8	26.6	26.6	103.6	103.7	7.6		5.0		3	3	822237	
					Bottom	8.0	0.2	102	23.7	3.7	7.8		26.6	103	103.5	400.0	7.5		6.5		2			
						8.0	0.2	105	23.7		7.8	7.8	26.5	26.6	103.6	103.6	7.5	7.5	6.6	1	3			
	Misty	Calm	10:36	7.6	Surface	1.0	0.2	84	23.6		7.8		26.1	26.4 103 26.4 101 26.4 101	106.1	404.0	7.5 7.5 7.4		1.0		3			
						1.0	0.2	80	23.6		7.8	7.8	26.1		103.1	104.6		7.5	1.1		2			
IM11					Middle	3.8	0.2	100	23.5	23.5	7.8	7.0	26.3 26.4		102.2	100.1		7.5	1.1	4.7	2	3	821498	810536
IIVI I I					Middle	3.8	0.2	97	23.5		7.8	7.8			101.9	102.1			1.1	1.7	3	3	821498	
					Bottom	6.6	0.3	103	23.5		7.7	7.0	26.4		101.3	101.0		7.4	2.9	1	4			
						6.6	0.3	97	23.5		7.6	7.6	26.3		100.7	101.0	7.4		2.9	1 '	3			
	Misty	Calm	10:42	7.0	Surface	1.0	0.3	109	23.2	23.2	7.7	7.7	26.7	26.7	98.1	00.4	7.2		1.0	1.4	2			
						1.0	0.3	102	23.2		7.7	7.7	26.7	20.7	98.0	98.1	7.2	7.2	1.1		2			
IM12					Middle	3.5	0.3	107	23.2		7.7	7.7	26.8	26.8	98.0	98.0	7.2	<u>.                                      </u>	1.1		4	3	821157	811537
IIVI I Z						3.5	0.3	114	23.2		7.7	1.1	26.8		98.0	98.0	7.2		1.2		4	3	821157	
					Bottom	6.0	0.3	117	23.2	23.2	7.7	7.7	26.8	26.7	98.3	98.2	7.2	7.2	2.0		4			
						6.0	0.2	122	23.2		7.7	7.7	26.7	20.7	98.1	90.2	7.2	1.2	2.0		4			
	Misty	Calm	11:02	5.0	Surface	1.0	0.0	84	23.4	23.4	7.8	7.8	26.2	26.2	102.1	102.1	7.5 7.5		1.5	1.9	5	Ī		812660
						1.0	0.0	90	23.4		7.8	7.0	26.2	20.2	102.0	102.1		7.5	1.4		4			
SR1A					Middle	2.5	0.0	101	-		-	_	-	_	-		-	-	-		-	5	819974	
OKIA						2.5	0.0	99	-		-		-		-		-		-		-	3	013374	
					Bottom	4.0	0.0	99	23.5	23.5	7.8	7.8	26.3	26.3	101.8	101.8	7.4	7.5	2.3		6			
						4.0	0.0	103	23.5		7.8	7.0	26.3	20.0	101.8	101.0	7.5	7.0	2.2		4			
	Misty	Calm	11:12	5.8	Surface	1.0	0.3	65	23.2	23.2	7.7	7.7	27.0	27.0	98.7	98.8	7.2		1.4	2.1	4			814162
						1.0	0.3	70	23.2		7.7	• • • • • • • • • • • • • • • • • • • •	27.0		98.8	00.0	7.2	7.2	1.4		4			
SR2					Middle	-	0.3	34	-		-	_	-	_	_	_	-	7.2	_		-	3	821479	
						-	0.2	40	-		-		-		-				-		-			
					Bottom	4.8	0.2	58	23.2		7.7	7.7	27.0	26.9	99.0	98.8	7.3	7.3	2.9	- □ '	2			
						4.8	0.2	64	23.2		7.7		26.8		98.6		7.2		2.9	+-	3			
	Cloudy	Moderate	11:09	8.8	Surface Middle	1.0	0.2	157	24.4	24.4	8.1		27.3	27.3	98.6	98.6	7.1	ł	0.8	1.1	3			
						1.0	0.3	157	24.4		8.1		27.4		98.6		7.1	6.9	0.8		3		822151	807594
SR3						4.4	0.3	140	24.0	24.0	8.1	8.1	29.1	29.1	94.5	94.6	6.7		1.3		2	2		
						4.4	0.3	132	24.0	1	8.1		29.1		94.6		6.7		1.3		2			
					Bottom	7.8	0.2	144	24.0	24.1	8.1	8.1	29.1	29.1	9.1 95.5	95.6	6.8	6.8	1.3	4	<2			
						7.8	0.2	142	24.1		8.1			1					1.4	1	<2	<u> </u>	<del></del>	
	Cloudy	Moderate		9.1	Surface	1.0	0.0	320 316	24.3 24.3	24.3	8.2	8.2	28.8	28.8	108.3	108.3	7.7 7.7	-	1.8	4	3			807815
			12:53			4.6	0.0	316										7.5		4			817189	
SR4A					Middle	4.6	-	334	24.2 24.2	24.2	8.2	8.2	29.0 29.0	29.0	103.2	103.2	7.3		2.1	5.1	4	4		
					Bottom	8.1	0.0	329	24.2				29.0				7.4		11.0		5			
						8.1	0.0	332	24.2	24.2	8.2	8.2	28.9	28.9	103.6	103.7	7.4		11.7		4			
					_	1.0	-	-	23.5		7.7		26.1		99.9		7.3		1.3	1	2	$\vdash$		
	Misty	Calm	10:47	4.8	Surface	1.0	-	-	23.5	23.5	7.7	7.7	26.1	26.1	99.6	99.8	7.3		1 /	1	3			811600
						1.0	-	-	23.3	-	- 1.1				99.0	<del>'</del>		7.3	-	1	-		820408	
SR8					Middle	-	-	-	-		-	-			-	-				2.1	-	3		
						3.8	-		23.4		7.7		26.3	26.2	99.0		7.3	7.3	2.9		3			
					Bottom	3.8	-		23.4	23.4	7.7	7.7	26.2		98.7	98.9	7.2	7.3	2.8	1	3			
DA: Donth Aver			1		l .	5.0		-	20.4		1.1		40.4		JU.1		1.4		۷.۵		J			l .

Water Quality Monitoring Results on 18 April 23 during Mid-Flood Tide

water Quar	ity monit	ornig ittoca	110 011		16 April 23	uuring wiu-		40																
Monitoring	Weather	Sea	Sampling	Water	Sampling Dep	th (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)	Sampling Dep	ur (m)	(m/s)	Direction	Value	Average	Value Av	verage	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.4	30	24.2	24.2	8.2	8.2	28.7	28.7	100.7	100.7	7.2		2.9		6			
					Surface	1.0	0.3	24	24.2	24.2	8.2	0.2	28.7	20.7	100.6	100.7	7.2	7.1	2.9		5			
C1	Cloudy	Moderate	05:55	8.6	Middle	4.3	0.4	34	24.1	24.1	8.2	8.2	29.0	29.0	98.8	98.8	7.0	7.1	3.8	4.3	6	5	815635	804263
Ci	Cloudy	Moderate	05.55	0.0	Mildale	4.3	0.4	38	24.1	24.1	8.2	0.2	29.0	29.0	98.7	90.0	7.0		3.6	4.3	5	5	613633	004203
					Bottom	7.6	0.3	21	24.0	24.0	8.2	8.2	29.6	29.6	97.5	97.5	6.9	6.9	6.4		4			
					Bottom	7.6	0.4	24	24.0	24.0	8.2	0.2	29.6	29.0	97.5	91.5	6.9	0.9	6.3		5			
					Surface	1.0	0.4	342	24.6	24.6	8.1	8.1	27.5	27.6	103.2	103.1	7.4		1.8		3			
					Ounace	1.0	0.4	343	24.5	24.0	8.1	0.1	27.6	27.0	102.9	103.1	7.3	7.3	1.9		3			
C2	Cloudy	Moderate	07:31	12.2	Middle	6.1	0.5	5	24.1	24.1	8.2	8.2	29.2	29.2	101.0	101.0	7.2	/.0	3.8	4.7	4	4	825701	806929
02	Oloudy	Woderate	07.01	12.2	Wilddie	6.1	0.5	358	24.1	2-1.1	8.2	0.2	29.2	20.2	101.0	101.0	7.2		3.9	٦.,	4	7	020701	000020
					Bottom	11.2	0.5	14	24.2	24.2	8.1	8.1	28.9	28.9	101.6	101.7	7.2	7.2	8.6		4			
						11.2	0.5	8	24.2		8.1				101.7		7.2		8.2		4			
					Surface	1.0	0.5	256	22.9	22.9	7.7	7.7	28.2	28.2	97.8	97.8	7.2		1.0		3			
						1.0	0.5	252	22.8		7.7		28.2		97.7		7.1	7.1	1.1		3			
C3	Misty	Calm	06:24	10.8	Middle	5.4	0.5	258	22.7	22.7	7.7	7.7	28.6 28.6	28.6	97.0	97.0	7.1		1.1	1.4	3	3	822112	817822
						5.4	0.5 0.5	251	22.7		7.7				96.9		7.1		1.2		3			
					Bottom	9.8	0.5	244 245	22.7 22.7	22.7	7.7	7.7	28.7	28.7	96.9 96.8	96.9	7.1 7.1	7.1	2.1		3			
	 					1.0	0.3	27	24.1		0.0		29.2		102.2		7.3		2.4		4			
					Surface	1.0	0.2	21	24.1	24.1	8.2	8.2	29.3	29.2	102.2	102.2	7.3		2.3		4			
						3.1	0.2	-	24.0		0.2		29.4		101.7		7.2	7.3	2.1		4			
IM1	Cloudy	Moderate	06:16	6.2	Middle	3.1	0.2	7	24.0	24.0	8.2	8.2	29.4	29.4	101.7	101.7	7.2		2.1	2.1	4	5	818366	806471
					5	5.2	0.3	12	24.0	24.0	0.2		29.6		101.6	404.0	7.2		2.0		6			
					Bottom	5.2	0.3	10	24.0	24.0	8.2	8.2	29.6	29.6	101.6	101.6	7.2	7.2	2.0		5			
					Surface	1.0	0.3	2	24.3	24.3	8.2	8.2	28.8	28.8	104.9	104.9	7.5		3.1		4			
					Surface	1.0	0.2	0	24.3	24.3	8.2	8.2	28.8	28.8	104.9	104.9	7.5	7.3	3.0		4			
IM2	Cloudy	Moderate	06:27	7.0	Middle	3.5	0.3	14	24.0	24.0	8.2	8.2	29.7	29.7	100.0	100.0	7.1	7.3	5.0	6.2	4	5	819196	806249
IIVIZ	Cloudy	Moderate	00.27	7.0	Middle	3.5	0.3	16	24.0	24.0	8.2	0.2	29.7	25.1	100.0	100.0	7.1		5.1	0.2	5	3	819190	000249
					Bottom	6.0	0.3	40	24.0	24.0	8.2	8.2	29.7	29.7	100.7	100.9	7.2	7.2	10.3		5			
					Dottom	6.0	0.2	39	24.0	24.0	8.2	0.2	29.7	23.1	101.0	100.3	7.2	7.2	10.4		6			
					Surface	1.0	0.2	358	24.2	24.2	8.2	8.2	28.6	28.6	101.5	101.4	7.2		1.9		3			
					22.1000	1.0	0.2	350	24.2		8.2		28.6		101.3		7.2	7.2	2.0		3			
IM7	Cloudy	Moderate	07:01	8.2	Middle	4.1	0.3	8	24.1	24.1	8.2	8.2	29.2 29.2	29.2	100.1	100.1	7.1		2.5	2.3	3	3	821349	806811
	,			-		4.1	0.3	5	24.1		8.2			-	100.1		7.1		2.5		3			
					Bottom	7.2	0.3	349	24.1	24.1	8.2	8.2	29.3 29.3	29.3	100.5	100.6	7.1	7.2	2.5		3			
						7.2	0.3	344	24.1		8.2		29.3		100.6		7.2		2.4		4			

DA: Depth-Averaged

Water Quality Monitoring Results on 18 April 23 during Mid-Flood Tide

Trutter Quar	,				10 April 20	during mid	_																	
Monitoring	Weather	Sea	Sampling	Water	Sampling Dept	th (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)	Sampling Dept	n (m)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					0	1.0	0.4	293	23.7	00.7	7.8	7.0	25.7	05.7	105.7	405.0	7.7		1.0		4			
					Surface	1.0	0.4	288	23.7	23.7	7.8	7.8	25.7	25.7	105.5	105.6	7.7		1.1		4			
10.440	N. C	0-1	07.00	0.0	NAC-JUIL-	4.3	0.3	301	23.7	00.7	7.8	7.0	25.8	05.0	105.1	405.4	7.7	7.7	2.2		4		000000	000000
IM10	Misty	Calm	07:29	8.6	Middle	4.3	0.3	300	23.7	23.7	7.8	7.8	25.8	25.8	105.1	105.1	7.7		2.2	2.1	3	4	822260	809826
					5	7.6	0.3	279	23.4		7.7		26.8		100.7	400 =	7.3		3.1		4			
					Bottom	7.6	0.3	286	23.5	23.5	7.6	7.7	26.8	26.8	100.2	100.5	7.3	7.3	3.2	1	3			
						1.0	0.4	283	23.2		7.7		26.7		97.5		7.1		1.6		2			
					Surface	1.0	0.4	278	23.2	23.2	7.7	7.7	26.7	26.7	97.5	97.5	7.1		1.5	1	2			
						3.6	0.5	274	23.2		7.7		26.7		97.4		7.1	7.1	2.0	1	3	_		
IM11	Misty	Calm	07:22	7.2	Middle	3.6	0.5	274	23.2	23.2	7.7	7.7	26.7	26.7	97.4	97.4	7.1		1.9	1.9	2	2	821493	810567
						6.2	0.4	280	23.2		7.6		26.8		97.6		7.2		2.3	1	2			
					Bottom	6.2	0.4	273	23.2	23.2	7.6	7.6	26.7	26.8	97.4	97.5	7.1	7.2	2.3	1	3			
			1			1.0	0.5	274	23.2		7.8		26.6		98.3		7.2		1.2		2			
					Surface	1.0	0.5	273	23.2	23.2	7.8	7.8	26.6	26.6	98.2	98.3	7.2		1.1	1	2			
						4.0	0.5	279	23.2		7.7		26.6		98.1		7.2	7.2	2.5	1	3			
IM12	Misty	Calm	07:18	8.0	Middle	4.0	0.5	284	23.2	23.2	7.7	7.7	26.6	26.6	98.1	98.1	7.2		2.4	2.1	2	3	821155	811538
						7.0	0.5	281	23.2		7.7		26.7		97.9		7.2		2.4	1	3			
					Bottom	7.0	0.4	287	23.2	23.2	7.6	7.7	26.7	26.7	97.8	97.9	7.2	7.2	2.8	1	3			
			1			1.0	0.0	189	23.7	l	7.6		26.7				7.3		1.2		2			
					Surface	1.0	0.0	191	23.6	23.7	7.6	7.6	26.7	26.7	99.9 99.7	99.8	7.3		1.3	-	2			
											7.0		20.7					7.3	-	-				
SR1A	Misty	Calm	07:00	4.8	Middle	2.4	0.0	208 211	-	-	-	-	-	-	-	-	-			1.6	-	3	819975	812655
						2.4					+		_		_				-	4	-			
					Bottom	3.8	0.1	224	23.6	23.6	7.6	7.6	26.8	26.7	99.1	98.9	7.2	7.2	2.0	4	3			
			-		1	3.8	0.0	227	23.5		7.6		26.7		98.7		7.2		2.1		4			
					Surface	1.0	0.1	241	23.4	23.4	7.7	7.7	25.9	26.0	99.0	99.0	7.3		1.6	4	5			
						1.0	0.1	244	23.4		7.7		26.0		98.9		7.3	7.3	1.6	4	5			
SR2	Misty	Calm	06:45	5.0	Middle	-	0.1	247	-	-	-	-	-	-	-	-	-		-	2.3	-	4	821478	814185
							0.1	241	-		-		-		-		-		-	1	-			
					Bottom	4.0	0.1	253	23.3	23.4	7.6	7.6	26.2	26.1	98.3	98.2	7.2	7.2	3.0	4	2			
						4.0	0.2	259	23.4		7.6		26.0		98.0		7.2		2.9		2			
					Surface	1.0	0.4	358	24.4	24.4	8.1	8.1	27.2	27.2	98.3	98.3	7.0		0.6	4	4			
						1.0	0.4	352	24.4		8.1		27.2		98.3		7.0	6.9	0.6	_	4			
SR3	Cloudy	Moderate	07:11	8.6	Middle	4.3	0.4	337	24.0	24.0	8.1	8.1	29.0	29.0	94.7	94.8	6.8		1.1	0.9	4	3	822125	807571
	,					4.3	0.4	340	24.0		8.1		29.1		94.8		6.8		1.1		3			
					Bottom	7.6	0.4	10	24.1	24.2	8.1	8.1	28.7	28.6	95.5	95.7	6.8	6.8	1.0	_	2			
					20110111	7.6	0.4	7	24.2		8.1	0	28.6	20.0	95.8	00.7	6.8	0.0	1.0		3			
					Surface	1.0	0.1	215	24.4	24.4	8.2	8.2	28.5	28.5	104.6	104.7	7.4		2.2		5			
					Gundoe	1.0	0.1	213	24.4	2-11	8.2	0.2	28.5	20.0	104.7	104.1	7.4	7.3	2.2		5			
SR4A	Cloudy	Moderate	05:27	8.5	Middle	4.3	0.0	209	24.2	24.2	8.1	8.1	28.9	28.9	100.0	100.0	7.1	7.0	2.6	2.4	4	4	817171	807830
ONTA	Cloudy	Woderate	03.27	0.5	Wilddie	4.3	0.1	203	24.2	24.2	8.1	0.1	28.9	20.5	100.0	100.0	7.1		2.6	2.7	3	7	017171	007030
					Bottom	7.5	0.0	205	24.2	24.2	8.1	8.1	29.0	29.0	100.1	100.1	7.1	7.1	2.6		3			
					Dottom	7.5	0.0	207	24.2	27.2	8.1	0.1	28.9	20.0	100.1	100.1	7.1	7.1	2.5		4			
_					Surface	1.0	-	-	23.3	23.3	7.7	7.7	26.4	26.4	99.1	99.0	7.3	_	1.2		2			
		I			Suitace	1.0	-	-	23.3	23.3	7.7	] '.'	26.4	20.4	98.9	55.0	7.3	7.3	1.3	1	4			1
SR8	Mioty	Colm	07:15	4.2	Middle	-	-	-	-		-		-		-		-	1.3	-	1.7	-	4	920275	811634
ono	Misty	Calm	07.13	4.2	Milade	-	-	-	-	] -	-	1 -	-	-	-	-	-		-	1.7	-	4	820375	011034
					Dettern	3.2	-	-	23.3	22.2	7.6	7.0	26.4	20.2	98.4	00.0	7.2	7.0	2.0	1	4			
					Bottom	3.2	-	-	23.3	23.3	7.6	7.6	26.3	26.3	97.9	98.2	7.2	7.2	2.1	1	4			
		•	•			-	•					•								•				•

Water Quality Monitoring Results on 20 April 23 during Mid-Ebb Tide

water Qual	ity Monit	oring Kesu	แรงเก		20 April 23	auring Mia-	EDD HIGH	;																
	Weather	Sea	Sampling	Water			Current		Water Te	emperature (°C)	pН		Salin	ity (ppt)		aturation		olved	Turbidity	(NTU)	Suspende		Coordinate	Coordinate
Monitoring Station			Janapang		Sampling Dept	h (m)	Speed	Current	7,000,10		P			2 (FF2	(	%)	Oxy	/gen	2.2.2.0	/	(mg	(L)	HK Grid	HK Grid
Station	Condition	Condition	Time	Depth (m)	, 5 4	. ,	(m/s)	Direction	Value	Average	Value A	verage	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
						1.0	0.5	198	24.2		8.2		29.7		102.5		7.3		3.4		2			
					Surface	1.0	0.5	203	24.2	24.2	8.2	8.2	29.8	29.7	102.2	102.4	7.2	1	3.4	ł	2			
	_					4.2	0.5	217	24.2		8.2		30.1		96.8		6.8	7.1	3.6		3			
C1	Foggy	Moderate	13:10	8.3	Middle	4.2	0.5	213	24.2	24.2	8.2	8.2	30.1	30.1	96.9	96.9	6.9	1	3.5	6.1	3	3	815606	804237
					D. II.	7.3	0.5	202	24.2	24.2	8.2	0.0		30.0	98.7	98.8	7.0	7.0	12.0		3			
					Bottom	7.3	0.5	200	24.2	24.2	8.2	8.2	30.0	30.0	98.9	98.8	7.0	7.0	11.1		3			
					Surface	1.0	0.1	166	24.2	24.2	8.2	8.2	28.5	28.5	94.1	94.1	6.7		4.6		3			
					Sulface	1.0	0.2	169	24.2	24.2	8.2	0.2	28.6	20.5	94.1	34.1	6.7	6.7	4.8	1	3			
C2	Foggy	Moderate	11:35	11.6	Middle	5.8	0.2	172	24.1	24.1	8.2	8.2	29.4 29.4	29.4	93.9	93.9	6.7	0.7	7.8	8.1	4	4	825692	806950
02	i oggy	Moderate	11.55	11.0	ivildale	5.8	0.2	167	24.1	24.1	8.2	0.2		23.4	93.9	33.3	6.7		8.4	0.1	4	7	023032	000330
					Bottom	10.6	0.2	141	24.3	24.4	8.2	8.2	29.0	29.0	93.8	93.8	6.7	6.7	11.1		4			
						10.6	0.1	137	24.4		8.2				93.8		6.7		11.8		4			
					Surface	1.0	0.5	83	23.1	23.1	7.9	7.9	27.5	27.5	92.4	92.4	6.8	4	1.1	ł	4			
						1.0	0.5	83	23.1		7.9		27.6		92.3		6.7	6.7	1.1	l	3			
C3	Misty	Moderate	12:38	9.6	Middle	4.8	0.5	92	23.1	23.1	7.8	7.8	27.7	27.7	91.6	91.6	6.7	-	1.1	1.1	2	3	822095	817820
						4.8	0.5 0.5	93	23.1		7.8				91.5		6.7		1.1	ł	3			
					Bottom	8.6 8.6	0.5	103 109	23.0 23.1	23.1	7.8	7.8	27.8 27.6	27.7	91.1	91.1	6.7	6.7	1.2		2			
						1.0	0.3	197	24.1		8.2		30.2		103.1		7.3		4.1		2			
					Surface	1.0	0.2	194	24.1	24.1	8.2	8.2	30.3	30.3	103.1	103.2	7.3	1 1	4.1		2			
						3.3	0.3	168	23.9		8.2				99.1		7.0	7.2	5.6		2			
IM1	Foggy	Moderate	12:45	6.5	Middle	3.3	0.3	174	23.9	23.9	8.2	8.2	30.9	30.9	99.2	99.2	7.0	1	5.4	6.0	2	2	818344	806452
					5	5.5	0.3	204	23.9	24.2	0.2		30.8		100.3	400.4	7.1		8.2	1	2			
					Bottom	5.5	0.3	202	24.0	24.0	8.2	8.2	30.8	30.8	100.5	100.4	7.1	7.1	8.7		2			
					Surface	1.0	0.2	181	24.1	24.1	8.2	8.2	30.1	30.1	100.4	100.5	7.1		4.2		2			
					Sunace	1.0	0.2	175	24.1	24.1	8.2	0.2	30.2	30.1	100.5	100.5	7.1	7.1	4.4		2			
IM2	Foggy	Moderate	12:41	7.5	Middle	3.8	0.2	167	24.0	24.0	8.2	8.2	30.7	30.7	100.0	99.9	7.1	] '.'	5.6	5.7	4	3	819171	806230
11112	i oggy	Moderate	12.71	7.5	MIGGIG	3.8	0.2	160	24.0	24.0	8.2	J.2		50.1	99.8	33.3	7.1		5.4	J.,	3	3	313171	000230
					Bottom	6.5	0.3	183	23.9	23.9	8.2	8.2	31.0	31.0	100.1	100.2	7.1	7.1	7.4		3			
					50	6.5	0.3	181	23.9	20.0	8.2	J	31.0	00	100.3	.00.2	7.1	L	7.1		4			
					Surface	1.0	0.3	129	24.2	24.2	8.2	8.2	28.9	29.0	97.0	97.1	6.9	4 1	2.9		2			
						1.0	0.3	131	24.2		8.2				97.1		6.9	6.9	3.3		3			
IM7	Foggy	Moderate	12:08	8.2	Middle	4.1	0.2	125	24.0	24.0	8.2	8.2	30.7	30.7	97.0	97.0	6.9	4	8.5	7.5	4	3	821362	806835
						4.1	0.2	117	24.0		8.2				97.0		6.8		8.8		3			
					Bottom	7.2 7.2	0.3	113 114	24.0 24.0	24.0	8.2	8.2	30.8	30.8	97.1 97.2	97.2	6.9	6.9	10.3	l	3			
DA: Dooth Avor			1		<u> </u>	7.2	0.3	114	24.0		8.2		30.8		97.2		6.9		11.0	l	3			l

DA: Depth-Averaged

Water Quality Monitoring Results on 20 April 23 during Mid-Ebb Tide

		orning ittest			ZO Aprili ZO	auring ima		ř – – – – – – – – – – – – – – – – – – –													_			
Monitoring	Weather	Sea	Sampling	Water	Sampling Dan	th (m)	Current Speed	Current	Water Te	emperature (°C)		pН	Salini	ity (ppt)		aturation (%)	Disso Oxy		Turbidity	(NTU)	Suspende (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling Dep	(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	71	23.3	22.2	7.8	7.0	26.7	20.7	92.1	92.1	6.7		1.2		2			
					Surface	1.0	0.3	71	23.3	23.3	7.8	7.8	26.8	26.7	92.1	92.1	6.7	c 7	1.1		2			
IM10	Minter	Madazata	11:34	9.0	Middle	4.5	0.3	88	23.3	23.3	7.8	7.0	26.8	26.8	92.0	92.0	6.7	6.7	1.2	1.5	2	2	822257	809845
IIVITO	Misty	Moderate	11:34	9.0	Middle	4.5	0.3	82	23.2	23.3	7.8	7.8	26.8	20.8	92.0	92.0	6.7		1.2	1.5	2	2	822257	809845
					Bottom	8.0	0.3	75	23.2	23.2	7.8	7.0	26.8	26.8	91.9	91.9	6.7	C 7	2.1		2			
					Bottom	8.0	0.2	74	23.2	23.2	7.8	7.8	26.8	20.0	91.9	91.9	6.7	6.7	2.1		2			
					Surface	1.0	0.4	90	23.4	23.4	7.8	7.8	26.6	26.6	92.3	92.2	6.8		1.1		2			
					Sunace	1.0	0.4	86	23.3	25.4	7.8	7.0	26.7	20.0	92.1	52.2	6.7	6.8	1.1		3			
IM11	Misty	Moderate	11:40	7.4	Middle	3.7	0.4	82	23.3	23.3	7.8	7.8	26.7	26.7	92.2	92.3	6.7	0.0	1.3	1.3	3	2	821483	810561
IIVI I	iviisty	Moderate	11.40	7.4	Middle	3.7	0.4	80	23.3	23.3	7.8	7.0	26.7	20.7	92.3	92.3	6.8		1.3	1.3	2	2	021403	010301
					Bottom	6.4	0.4	106	23.4	23.4	7.8	7.0	26.6	26.6	92.7	92.8	6.8	6.8	1.4		2			
					Bottom	6.4	0.4	104	23.4	23.4	7.8	7.8	26.6	20.0	92.8	92.0	6.8	0.0	1.5		2			
					Surface	1.0	0.4	87	23.3	23.3	7.8	7.0	25.8	25.9	92.3	92.2	6.8		1.6		3			
					Surface	1.0	0.4	86	23.3	23.3	7.8	7.8	25.9	25.9	92.1	92.2	6.8	6.8	1.5		4			
IM12	Mioty	Moderate	11:46	7.0	Middle	3.5	0.4	101	23.3	23.3	7.8	7.8	26.1	26.2	91.3	91.2	6.7	0.0	2.1	2.3	3	3	821184	811507
IIVI I Z	Misty	Moderate	11.46	7.0	ivildale	3.5	0.4	95	23.3	23.3	7.8	7.0	26.2	20.2	91.1	91.2	6.7		2.1	2.3	2	3	021104	611507
					Dettern	6.0	0.4	120	23.3	23.3	7.8	7.0	26.2	20.2	90.5	00.5	6.6		3.4		3			
					Bottom	6.0	0.3	118	23.3	23.3	7.8	7.8	26.2	26.2	90.4	90.5	6.6	6.6	3.3		3			
					Confess	1.0	0.0	58	23.3	22.2	7.8	7.0	26.3	20.2	92.0	00.0	6.8		1.2		3			
					Surface	1.0	0.1	59	23.3	23.3	7.8	7.8	26.3	26.3	91.9	92.0	6.7	6.8	1.2		2			
SR1A	Mioty	Moderate	12:06	5.8	Middle	2.9	0.0	49	-		-		-		-		-	0.0	-	1.3	-	3	819974	812663
SKIA	Misty	Moderate	12.00	5.6	Middle	2.9	0.1	44	-	] -	-	1	-	-	-	-	-		-	1.3	-	3	019974	012003
					Bottom	4.8	0.0	30	23.3	23.3	7.8	7.8	26.3	26.3	91.3	91.2	6.7	6.7	1.3		3			
					Bollom	4.8	0.0	32	23.3	25.5	7.8	7.0	26.3	20.3	91.1	91.2	6.7	0.7	1.4		4			
					Surface	1.0	0.3	60	23.2	23.2	7.8	7.8	26.9	26.9	91.6	91.6	6.7		3.4		4			
					Sunace	1.0	0.3	56	23.2	25.2	7.8	7.0	26.9	20.9	91.5	91.0	6.7	6.7	3.5		3			
SR2	Misty	Moderate	12:17	5.6	Middle	-	0.3	71	-	_	-		-	_	-		-	0.7	-	3.7	-	3	821484	814148
OILE	iviloty	Wioderate	12.17	5.0	Wildale	-	0.3	72	-		-		-		-	_	-			5.7	-	3	021404	014140
					Bottom	4.6	0.3	36	23.2	23.2	7.8	7.8	27.1	27.0	90.9	90.8	6.7	6.7	4.0		2			
					Bottom	4.6	0.3	33	23.2	25.2	7.8	7.0	26.9	21.0	90.6	30.0	6.6	0.7	4.0		2			
					Surface	1.0	0.3	133	24.1	24.1	8.2	8.2	30.4	30.4	97.9	97.9	6.9		9.9		2			
					Gunace	1.0	0.3	133	24.0	24.1	8.2	0.2	30.5	30.4	97.8	31.3	6.9	6.9	9.3		2			
SR3	Foggy	Moderate	11:59	8.7	Middle	4.4	0.2	119	24.0	24.0	8.2	8.2	30.6	30.6	96.8	96.9	6.8	0.0	9.2	9.1	3	3	822159	807568
Cito	1 0999	Wioderate	11.00	0.7	Wildale	4.4	0.3	114	24.0	24.0	8.2	0.2	30.6	00.0	96.9	50.5	6.8		9.2	0.1	3	Ŭ	022100	007000
					Bottom	7.7	0.3	109	24.1	24.2	8.2	8.2	30.6	30.5	96.9	96.9	6.8	6.8	8.6		3			
					Bottom	7.7	0.2	102	24.2	2-1.2	8.2	0.2	30.5	00.0	96.9	00.0	6.8	0.0	8.2		3			
					Surface	1.0	0.0	45	24.3	24.3	8.2	8.2	29.9	29.9	97.0	97.0	6.9		4.7		2			
					Gundoo	1.0	0.1	48	24.3	24.0	8.2	0.2	29.9	20.0	96.9	01.0	6.8	6.8	4.9		2			
SR4A	Foggy	Moderate	13:39	8.9	Middle	4.5	0.0	24	24.0	24.0	8.2	8.2	30.4	30.4	95.7	95.8	6.8	0.0	6.3	5.7	<2	2	817169	807807
51.47	· oggy	Moderate	10.00	3.3	whole	4.5	-	24	24.0	2-7.0	8.2	J.2	30.5	55.4	95.8	55.0	6.8		6.3	5.7	<2	-	017100	557507
					Bottom	7.9	0.0	34	24.1	24.1	8.2	8.2	30.4	30.4	96.7	96.9	6.8	6.9	5.9	1	<2			
					50	7.9	0.0	38	24.1		8.2		30.4		97.0		6.9	0.0	5.9		<2			
					Surface	1.0	-	-	23.3	23.3	7.8	7.8	25.8	25.9	94.1	94.3	6.9		1.8		3			
						1.0	-	-	23.3	20.0	7.8		26.0	20.0	94.5	00	6.9	6.9	1.8		2			
SR8	Misty	Moderate	11:51	4.6	Middle	-	-	-	-	_	-		-	_	-	_	-	0.0	-	2.0	-	2	820369	811605
20						-	-	-	-		-		-		-		-		-		-	-		1
					Bottom	3.6	-	-	23.3	23.4	7.8	7.8	26.0	25.9	94.7	94.7	7.0	7.0	2.2		2			
						3.6	-	-	23.5		7.8		25.8		94.7	•	6.9		2.3		2			

Water Quality Monitoring Results on 20 April 23 during Mid-Flood Tide

Water Quar	ity wont	oring Resu	ito Uii		20 April 23	auring Mia-	rioou ii	ue																
Monitoring	Weather	Sea	Sampling	Water	Sampling Dep	th (m)	Current Speed	Current	Water Te	emperature (°C)	Ŀ	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	tn (m)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
						1.0	0.3	24	24.0	24.0	8.2		30.2		97.7		6.9		6.6		5			
					Surface	1.0	0.3	23	24.0	24.0	8.2	8.2	30.2	30.2	97.5	97.6	6.9		6.6	1	4			
0.4	_			0.5		4.3	0.3	31	24.0	0.1.0	8.2		30.4		96.8		6.9	6.9	7.4	1	3		045040	
C1	Foggy	Moderate	06:35	8.5	Middle	4.3	0.2	37	24.0	24.0	8.2	8.2	30.4	30.4	96.8	96.8	6.9	1	7.4	8.2	2	3	815613	804249
					Dallana	7.5	0.3	23	24.0	04.0	8.2	0.0	30.6	00.0	86.9	86.8	6.1	0.4	10.3	1	2			
					Bottom	7.5	0.3	15	24.0	24.0	8.2	8.2	30.5	30.6	86.9 86.6	86.8	6.1	6.1	10.9		3			
					Surface	1.0	0.5	350	24.2	24.2	8.2	8.2	28.7	28.8	94.3	94.3	6.7		7.1		2			
					Surface	1.0	0.5	348	24.2	24.2	8.2	8.2	28.9	28.8	94.3	94.3	6.7	6.7	8.0		2			
C2	Foggy	Moderate	08:09	11.9	Middle	6.0	0.5	343	24.1	24.1	8.2	8.2	29.5	29.4	94.2	94.2	6.7	0.7	10.8	10.2	2	2	825659	806963
02	ruggy	Moderate	06.09	11.9	Middle	6.0	0.5	338	24.1	24.1	8.2	0.2	29.4	29.4	94.2	94.2	6.7		10.5	10.2	2	2	623639	000903
					Bottom	10.9	0.5	358	24.2	24.3	8.2	8.2	29.1	29.1	94.2	94.2	6.7	6.7	12.8		3			
					Dottom	10.9	0.5	355	24.3	24.5	8.2	0.2	29.0	25.1	94.2	34.2	6.7	0.7	12.1		2			
					Surface	1.0	0.6	261	23.0	23.0	7.7	7.7	26.3	26.3	94.3	94.3	7.0		1.6		2			
					Curiaco	1.0	0.5	258	23.0	20.0	7.7	• • • • • • • • • • • • • • • • • • • •	26.3	20.0	94.2	04.0	7.0	7.0	1.8		2			
СЗ	Misty	Rough	07:30	12.0	Middle	6.0	0.6	270	22.8	22.8	7.7	7.7	26.3	26.3	93.9	93.9	6.9	7.0	2.5	2.8	3	3	822101	817797
00	····oty	. tougi.	01.00	12.0	madio	6.0	0.6	265	22.8	22.0	7.7	• • • • • • • • • • • • • • • • • • • •	26.3	20.0	93.9	00.0	6.9		2.5		2	Ü	022.01	011101
					Bottom	11.0	0.5	277	22.8	22.8	7.7	7.7	25.6	25.5	93.7 93.8	93.8	7.0	7.0	4.2		4			
						11.0	0.5	282	22.8				25.5				7.0		4.3		2			
					Surface	1.0	0.2	16	24.0	24.0	8.2	8.2	29.9	29.9	100.2	100.2	7.1	Į.	5.1	_	2			
						1.0	0.2	23	24.0		8.2		29.9		100.1		7.1	7.1	5.2	4	3			
IM1	Foggy	Moderate	07:00	6.2	Middle	3.1	0.3	9	23.9	23.9	8.2	8.2	30.6	30.6	99.1	99.1	7.0	ļ	6.1	5.8	3	3	818346	806457
						3.1 5.2	0.3	<u>8</u> 4	23.9		8.2		30.6		99.1		7.0		6.2 6.1	_	4			
					Bottom	5.2	0.2	7	23.9 23.9	23.9	8.2 8.2	8.2	30.6	30.6	98.5 98.4	98.5	7.0	7.0	6.0	_	3			
						1.0	0.2	354	24.0		8.2		29.8				7.0		4.5		2			
					Surface	1.0	0.3	355	24.0	24.0	8.2	8.2	29.0	29.9	100.9	100.9	7.1	ł	4.5	4	3			
						3.3	0.3	5	24.0		8.2		30.2				7.1	7.1	5.1	-	3			
IM2	Foggy	Moderate	07:04	6.6	Middle	3.3	0.3	358	24.0	24.0	8.2	8.2	30.2	30.2	100.2	100.2	7.1	ł	5.0	5.0	3	3	819171	806250
						5.6	0.3	28	24.0				30.3				7.1		5.2	-	4			
					Bottom	5.6	0.2	31	24.0	24.0	8.2 8.2	8.2	30.3	30.3	99.7 99.7	99.7	7.1	7.1	5.2	-	5			
						1.0	0.3	356	24.2		8.2		29.1		94.3		6.7		4.4	1	3			
					Surface	1.0	0.3	357	24.1	24.2	8.2	8.2	29.2	29.1	94.3	94.3	6.7	١	4.7	1	3			
	_		07.40			4.1	0.2	341	24.1	24.4	8.2		29.9		94.5	0.15	6.7	6.7	9.6	1	3			
IM7	Foggy	Moderate	07:40	8.2	Middle	4.1	0.2	337	24.1	24.1	8.2	8.2	30.0	29.9	94.5	94.5	6.7	1	9.8	8.4	2	3	821327	806816
					Pottom	7.2	0.2	358	24.0	24.0	8.2	0.2	30.0	20.0	94.4	04.4	6.7	6.7	10.9	1	2			
			L		BOILOITI	7.2	0.2	354	24.0	24.0	8.2	8.∠	30.0	30.0	94.4	94.4	6.7	0.7	10.9	1	3			
IM7	Foggy	Moderate	07:40	8.2	Middle Bottom	4.1 7.2	0.2	337 358	24.1 24.0	24.1	8.2 8.2	8.2	30.0 30.0	29.9	94.5 94.4	94.5 94.4	6.7 6.7	6.7	9.8 10.9	8.4	2	3	821327	

DA: Depth-Averaged

Water Quality Monitoring Results on 20 April 23 during Mid-Flood Tide

Water Quar	ity illioinit	ornig itooc			ZU April ZS	during wid-		uc																
Monitoring	Weather	Sea	Sampling	Water	Sampling Dep	oth (m)	Current Speed	Current	Water Te	emperature (°C)		рН	Salin	ity (ppt)		aturation (%)	Disso Oxy		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)
					Curtosa	1.0	0.3	302	23.3	22.2	7.8	7.0	26.4	200.4	92.8	92.9	6.8		1.1		2			
					Surface	1.0	0.3	300	23.3	23.3	7.8	7.8	26.5	26.4	93.0	92.9	6.8		1.1		3			
						4.3	0.4	283	23.3	20.0	7.8		26.5		94.2		6.9	6.9	1.1	1	4			
IM10	Misty	Moderate	08:35	8.6	Middle	4.3	0.4	289	23.3	23.3	7.8	7.8	26.5	26.5	94.5	94.4	6.9		1.1	1.1	3	3	822232	809840
					_	7.6	0.4	281	23.3		7.8		26.5		95.2		7.0		1.3		4			
					Bottom	7.6	0.4	282	23.4	23.4	7.8	7.8	26.5	26.5	95.2	95.2	7.0	7.0	1.2	1	2			
			1			1.0	0.4	293	23.3		7.8		26.2		92.6		6.8		1.1		5			
					Surface	1.0	0.4	285	23.3	23.3	7.8	7.8	26.3	26.2	92.6	92.6	6.8		1.1	1	5			
						3.8	0.4	281	23.3		7.8		26.3		92.7		6.8	6.8	1.2		3			
IM11	Misty	Moderate	08:28	7.6	Middle	3.8	0.3	287	23.3	23.3	7.8	7.8	26.3	26.3	92.6	92.7	6.8		1.2	1.2	2	3	821514	810530
						6.6	0.4	287	23.3		7.8		26.3		92.3		6.8		1.2	-	<2			
					Bottom	6.6	0.4	287	23.3	23.3	7.8	7.8	26.3	26.3	92.1	92.2	6.8	6.8	1.2		<2			
			+		1	1.0	0.4	286	23.3		_													
					Surface	1.0	0.4	288	23.3	23.3	7.8	7.8	26.4	26.4	89.7 89.6	89.7	6.6		1.2		3			
																		6.6						
IM12	Misty	Moderate	08:24	7.4	Middle	3.7	0.4	297	23.3	23.3	7.8	7.8	26.5	26.5	89.6	89.6	6.6		2.2	2.6	2	3	821158	811517
						3.7	0.4	296	23.3		7.8		26.5		89.6		6.6		2.2		3			
					Bottom	6.4	0.5	267	23.3	23.4	7.8	7.8	26.4	26.4	89.5	89.5	6.6	6.6	4.3		3			
			1			6.4	0.5	268	23.5		7.8		26.3		89.5		6.5		4.3		3			
					Surface	1.0	0.0	214	23.6	23.7	7.8	7.8	26.1	26.1	89.2	89.0	6.5		1.2		3			
						1.0	0.0	207	23.7		7.8		26.1		88.8		6.5	6.5	1.2		4			
SR1A	Misty	Rough	08:06	4.4	Middle	2.2	0.0	196	-	-	-	_	-	-	-	-	-		-	1.3	-	3	819971	812660
-	- ,					2.2	0.0	189	-		-		-		-		-		-		-	-		
					Bottom	3.4	-	205	24.1	24.1	7.8	7.8	25.9	25.9	87.8	87.7	6.4	6.4	1.3		3			
						3.4	0.1	198	24.1		7.8		25.8		87.6		6.4		1.3		2			
					Surface	1.0	0.1	234	23.5	23.6	7.8	7.8	25.6	25.6	91.5	91.5	6.7		1.0		3			
						1.0	0.1	237	23.6		7.8		25.6		91.4		6.7	6.7	1.0		4			
SR2	Misty	Rough	07:51	4.6	Middle	-	0.1	231	-	_	-	_	-	_	-	_	-	0	-	1.5	-	3	821440	814172
0.1.2	···ioty	rtoug.	07.01		madio	-	0.1	226	-		-		-		-		-		-		-	ŭ	021110	02
					Bottom	3.6	0.1	238	23.8	23.8	7.8	7.8	25.5	25.3	90.6	90.4	6.6	6.6	2.0		2			
					Bottom	3.6	0.0	231	23.8	20.0	7.8	7.0	25.2	20.0	90.1	50.∓	6.6	0.0	2.0		3			
					Surface	1.0	0.3	354	24.3	24.3	8.2	8.2	28.1	28.2	93.6	93.7	6.7		4.0		2			
					Gunace	1.0	0.3	0	24.2	24.5	8.2	0.2	28.3	20.2	93.8	33.7	6.7	6.7	4.6		3			
SR3	Foggy	Moderate	07:48	9.2	Middle	4.6	0.4	343	24.1	24.1	8.2	8.2	29.4	29.4	94.2	94.2	6.7	0.7	7.4	6.2	3	3	822131	807593
313	Foggy	Woderate	07.46	5.2	Middle	4.6	0.4	347	24.1	24.1	8.2	0.2	29.4	25.4	94.2	34.2	6.7		7.4	0.2	2	3	022131	007393
					Bottom	8.2	0.3	354	24.1	24.1	8.2	8.2	29.3	29.3	93.5	93.4	6.6	6.6	7.1		3			
					Bottom	8.2	0.3	1	24.1	24.1	8.2	0.2	29.2	25.5	93.3	33.4	6.6	0.0	6.8		3			
					Curtosa	1.0	0.0	231	24.1	24.4	8.2	0.0	30.0	20.0	97.3	07.2	6.9		7.6		2			
					Surface	1.0	0.0	234	24.1	24.1	8.2	8.2	30.0	30.0	97.2	97.3	6.9	6.9	7.5		3			
0044	E	Madada	00.07	0.5	NAC-L-III-	4.3	-	209	24.1	04.4	8.2	0.0	30.0	00.0	97.0	07.0	6.9	6.9	8.0		3		047044	007700
SR4A	Foggy	Moderate	06:07	8.5	Middle	4.3	0.0	203	24.1	24.1	8.2	8.2	30.0	30.0	97.0	97.0	6.9		8.1	8.0	3	3	817211	807792
					De":	7.5	0.1	241	24.1	24.4	8.2		30.0	20.0	96.9	00.0	6.9		8.3	1	<2			
					Bottom	7.5	0.1	241	24.1	24.1	8.2	8.2	30.0	30.0	96.9	96.9	6.9	6.9	8.4	1	<2			
					0.1	1.0	-	-	23.3	20.0	7.8		26.2		92.5		6.8		1.1		4			
					Surface	1.0	-	_	23.3	23.3	7.8	7.8	26.2	26.2	92.5	92.5	6.8		1.1	1	3			
						-	_	_	-				-		-		-	6.8		1	-			
SR8	Misty	Moderate	08:21	5.8	Middle	-	-	-	-	-	_	-	_	-	_	-	_		_	1.2	-	3	820393	811632
						4.8	-	-	23.3		7.8		26.3		92.7		6.8		1.3	1	3			
					Bottom	4.8	_	-	23.3	23.3	7.8	7.8	26.3	26.3	92.7	92.7	6.8	6.8	1.3	1	3			
DA: Donth Avor			1		ı	7.0			20.0		7.0	l	20.0		U4.1		0.0		1.0	1	J			

DA: Depth-Averaged

Water Quality Monitoring Results on 22 April 23 during Mid-Ebb Tide

water Quai	ity wont	oning Kesu	its on		22 April 23	auring Mia-	EDD HIGE	:																
Monitoring	Weather	Sea	Sampling	Water	Sampling Dept	h (m)	Current Speed	Current	Water Te	emperature (°C)		pН	Salin	nity (ppt)		aturation (%)	Disso Oxyg		Turbidity	(NTU)	Suspende (mg		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Запрінід Бері	()	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.6	220	24.1	24.1	8.2 8.2	8.2	31.1	31.1	97.3	97.2	6.9		5.1		7			
					Surface	1.0	0.6	226	24.0	24.1	8.2	0.2	31.2	31.1	97.0	91.2	6.8	6.8	5.1		7			
C1	Cloudy	Rough	15:27	8.6	Middle	4.3	0.6	212	23.8	23.8	8.2 8.2	8.2	31.7	31.7	95.3	95.3	6.7	0.0	5.5	5.3	7	7	815616	804234
01	Cloudy	Rough	15.27	0.0	Middle	4.3	0.6	210	23.8	23.0	8.2	0.2	31.7	31.7	95.2	95.5	6.7		5.3	3.3	7	,	813010	004234
					Bottom	7.6	0.6	187	23.9	24.0	8.2 8.2	8.2	31.6	31.5	95.0	95.1	6.7	6.7	5.7		8			
					Bottom	7.6	0.6	185	24.0	24.0	8.2	0.2	31.5	31.3	95.2	93.1	6.7	0.7	5.5		8			
					Surface	1.0	0.5	171	24.2	24.2	8.1	8.1	28.6	28.6	92.5	92.5	6.6		3.0		4			
					Sunace	1.0	0.6	178	24.2	24.2	8.1	0.1	28.6	20.0	92.5	92.5	6.6	6.6	2.9		4			
C2	Cloudy	Rough	13:45	11.8	Middle	5.9	0.6	174	24.2	24.2	8.1	8.1	28.6	28.6	92.2	92.2	6.6	0.0	3.1	3.5	5	5	825705	806947
02	Cloudy	Rough	13.43	11.0	Middle	5.9	0.6	171	24.2	24.2	8.1	0.1	28.6	20.0	92.1	32.2	6.6		3.2	3.3	4	3	023703	800947
					Bottom	10.8	0.5	150	24.1	24.2	8.1	8.1	28.8	28.8	92.4	92.5	6.6	6.6	4.4		5			
					Bottom	10.8	0.5	155	24.2	24.2	8.1	0.1	28.8	20.0	92.6	92.5	6.6	0.0	4.3		5			
					Surface	1.0	0.5	71	23.3	23.3	7.9	7.9	28.1	28.1	94.4	94.6	6.9		1.0		2			
					Sunace	1.0	0.5	71	23.3	25.5	7.9	7.5	28.1	20.1	94.8	34.0	6.9	7.0	1.1		2			
СЗ	Misty	Rough	14:46	9.6	Middle	4.8	0.4	65	23.2	23.2	7.9 7.9	7.9	28.1	28.1	95.6	95.8	7.0	1.0	1.5	1.3	3	3	822110	817811
0.3	iviisty	Rough	14.40	9.0	Middle	4.8	0.5	70	23.1	25.2		7.5	28.2	20.1	95.9	93.0	7.0		1.5	1.5	3	3	022110	017011
					Bottom	8.6	0.5	78	23.0	23.0	7.9 7.9	7.9	28.2	28.2	96.3	96.4	7.0	7.0	1.6		3			
					Bottom	8.6	0.4	72	23.0	23.0	7.9	7.5	28.2	20.2	96.4	30.4	7.0	7.0	1.5		3			
					Surface	1.0	0.5	191	23.9	23.9	8.2	8.2	31.2	31.2	96.1	96.1	6.8		6.2		7			
					Gunace	1.0	0.5	187	23.8	25.5	8.2	0.2	31.2	31.2	96.0	30.1	6.8	6.8	6.2		8			
IM1	Cloudy	Rough	15:01	6.6	Middle	3.3	0.4	181	23.8	23.8	8.2 8.2	8.2	31.3	31.3	95.6	95.6	6.8	0.0	6.8	6.6	6	7	818367	806479
	Oloddy	rtougii	10.01	0.0	Wildale	3.3	0.4	182	23.8	20.0	8.2	0.2	31.3	01.0	95.5	55.5	6.8		7.0	0.0	7	•	010007	000470
					Bottom	5.6	0.5	197	23.8	23.8	8.2	8.2	31.3	31.3	95.4	95.5	6.7	6.7	6.8		7			
					Bottom	5.6	0.5	197	23.8	20.0	8.2	0.2	31.3	01.0	95.5	00.0	6.7	0.7	6.6		6			
					Surface	1.0	0.6	204	24.0	24.0	8.2	8.2	30.9	30.9	95.7	95.7	6.8		6.0		6			
					Gundee	1.0	0.6	198	24.0	24.0	8.2	0.2	30.9	00.0	95.7	50.7	6.8	6.8	6.1		7			
IM2	Cloudy	Rough	14:56	7.0	Middle	3.5	0.5	210	23.9	23.9	8.2	8.2	31.1	31.1	95.4	95.4	6.7	0.0	6.9	7.2	7	8	819198	806233
IIVIZ	Cloudy	rtougii	14.50	7.0	Middle	3.5	0.5	207	23.9	25.5	8.2	0.2	31.1	31.1	95.4	33.4	6.7		7.3	1.2	8	O	013130	000233
					Bottom	6.0	0.5	203	23.7	23.7	8.2	8.2	31.6	31.5	95.3	95.4	6.7	6.7	8.6		9			
					Dottom	6.0	0.5	208	23.7	25.7	8.2	0.2	31.5	31.3	95.4	33.4	6.7	0.7	8.3		8			
					Surface	1.0	0.3	177	24.2	24.2	8.1	8.1	28.7	28.7	94.9	95.0	6.8		3.4		5			
					Curiace	1.0	0.3	169	24.2	2-7.2	8.1	0.1	28.7	20.7	95.0	55.0	6.8	6.8	3.5		4			
IM7	Cloudy	Rough	14:20	7.8	Middle	3.9	0.4	167	24.0	24.0	8.2	8.2	29.5	29.6	95.1	95.1	6.8	0.0	5.7	5.3	6	5	821362	806823
11017	Oloudy	rtougii	17.20	7.0	Middle	3.9	0.4	172	24.0	24.0	8.2	0.2	29.6	20.0	95.1	33.1	6.8		5.9	3.3	5	5	021302	000023
					Bottom	6.8	0.3	139	23.9	24.0	8.2	8.2	30.1	30.1	95.5	95.6	6.8	6.8	6.7		6			
					Bottom	6.8	0.3	133	24.0	24.0	8.2	0.2	30.0	30.1	95.7	33.0	6.8	0.0	6.4		5			

DA: Depth-Averaged

Water Quality Monitoring Results on 22 April 23 during Mid-Ebb Tide

water Qua	ity wont	oring Resu	IIIS UII		22 April 23	auring Mia-	EDD TIGE	<del>;</del>																
Monitoring	Weather	Sea	Sampling	Water	Sampling Dept	h (m)	Current Speed	Current	Water Te	emperature (°C)		рН	Saliı	nity (ppt)		aturation (%)	Disso Oxy		Turbidity	(NTU)		led Solids g/L)	Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Campling Dept	()	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.5	98	23.1	23.1	7.9	7.9	26.5	26.6	92.4	92.5	6.8		1.3		4			
					Cundoc	1.0	0.4	103	23.1	20.1	7.9	7.0	26.6	20.0	92.5	02.0	6.8	6.8	1.3		3			
IM10	Misty	Rough	13:20	9.0	Middle	4.5	0.5	80	23.1	23.1	7.9	7.9	26.7	26.7	92.6	92.7	6.8	0.0	2.4	2.4	3	3	822220	809845
						4.5	0.6	87	23.1		7.9		26.7		92.7		6.8		2.4	1	4			
					Bottom	8.0	0.5	114	23.1	23.1	7.9	7.9	26.8	26.7	92.9	92.9	6.8	6.8	3.6	_	2			
						8.0	0.5	114	23.1		7.9		26.6		92.9		6.8		3.6		3			
					Surface	1.0	0.6	93	23.1	23.1	7.9	7.9	26.8	26.8	93.2	93.2	6.8		1.3	4	3			
						1.0 3.9	0.7 0.7	97 90	23.1		7.9		26.8		93.1		6.8	6.8	1.3 2.7	1	2			
IM11	Misty	Rough	13:50	7.8	Middle	3.9	0.7	91	23.2	23.2	7.9 7.9	7.9	27.0	27.0	92.7 92.4	92.6	6.8		2.6	2.3	3	3	821510	810535
						6.8	0.7	87	23.4		7.9		27.1		92.4		6.7		3.0	-	4			
					Bottom	6.8	0.7	92	23.5	23.5	7.9	7.9	26.8	26.9	92.4	92.2	6.7	6.7	3.1	1	4			
						1.0	0.7	109	23.1		7.9		26.8		91.9		6.7		1.2		3			
					Surface	1.0	0.6	114	23.1	23.1	7.9	7.9	27.0	26.9	91.9	91.9	6.7		1.2	1	2			
						3.4	0.7	84	23.1		7.9		27.2		92.1		6.7	6.7	1.4	1	4			
IM12	Misty	Rough	13:57	6.8	Middle	3.4	0.7	82	23.1	23.1	7.9	7.9	27.3	27.3	92.3	92.2	6.8		1.4	1.4	3	4	821167	811513
						5.8	0.7	118	23.2		7.8		27.2		94.0		6.9		1.6	1	5			
					Bottom	5.8	0.6	121	23.3	23.3	7.8	7.8	27.2	27.2	94.4	94.2	6.9	6.9	1.5	1	6			
						1.0	0.0	38	23.1		7.9		27.1		89.6		6.6		1.4		2			
					Surface	1.0	0.0	33	23.1	23.1	7.9	7.9	27.2	27.2	89.5	89.6	6.6		1.4	1	3			
CD4A	Minter	Davish	44.00	5.0	Middle	2.5	0.1	20	-		-		-		-		-	6.6	-	4.0	-	,	040070	042050
SR1A	Misty	Rough	14:09	5.0	Middle	2.5	0.1	12	-	-	-	-	-	1	-	-	-		-	1.6	-	3	819976	812659
					Bottom	4.0	0.0	34	23.0	23.0	7.9	7.9	27.5	27.5	89.4	89.5	6.5	6.6	1.9	1	3			
					BUILDITI	4.0	0.0	33	23.0	23.0	7.9	7.9	27.5	27.3	89.5	69.5	6.6	0.0	1.9		3			
					Surface	1.0	0.6	39	23.1	23.1	7.9	7.9	27.4	27.4	93.9	94.1	6.9		1.1		2			
					Gunace	1.0	0.6	38	23.1	23.1	7.9	7.5	27.4	21.4	94.2	34.1	6.9	6.9	1.1		2			
SR2	Misty	Rough	14:27	5.6	Middle	-	0.6	46	-	_	-	_	-		-	_	-	0.5	-	1.3	-	3	821484	814185
ONE	iviloty	rtougii	17.27	0.0	Middle	-	0.5	46	-		-		-		-		-		-	1.0	-		021404	014100
					Bottom	4.6	0.5	57	23.1	23.1	7.9	7.9	27.4	27.4	94.7	94.9	6.9	7.0	1.4		3			
					Bottom	4.6	0.6	62	23.1	20	7.9		27.4	2	95.1	0	7.0		1.4		4			
					Surface	1.0	0.5	172	24.2	24.2	8.1	8.1	28.4	28.4	94.0	94.0	6.7		8.8	_	3			
						1.0	0.6	169	24.2		8.1		28.4		94.0		6.7	6.7	8.9	_	3			
SR3	Cloudy	Rough	14:14	9.1	Middle	4.6	0.5	156	24.0	24.0	8.1	8.1	29.4	29.5	94.6	94.6	6.7		6.8	7.5	4	3	822150	807551
		· ·				4.6	0.6	149	24.0		8.1		29.6	-	94.6		6.7		7.1	4	3			
					Bottom	8.1	0.6	180	24.0	24.1	8.1 8.1	8.1	29.6	29.5	94.9	95.0	6.7	6.8	6.8	4	3			
						8.1	0.6	182	24.1								6.8		6.5	1	4			
					Surface	1.0	0.1 0.0	351 351	24.2 24.1	24.2	8.2 8.2	8.2	31.1	31.1	96.8 96.7	96.8	6.8		7.1 7.2	1	9	ł		
						4.6	0.0	8	24.1					-			6.8	6.8	8.0	4				
SR4A	Cloudy	Rough	16:01	9.1	Middle	4.6	0.0	8	23.9	24.0	8.2 8.2	8.2	31.3	31.3	96.3 96.4	96.4	6.8		8.0	7.6	9	9	817184	807831
						8.1	0.0	20	23.9		8.2		31.3	1	96.9		6.8		7.8	-	9			
					Bottom	8.1	0.0	19	23.9	23.9	8.2	8.2	31.3	31.3	97.1	97.0	6.8	6.8	7.7	1	10	1		
			1	<u> </u>		1.0	-	-	23.3		7.8		27.1	1	94.3		6.9		1.2		2			
					Surface	1.0	-	<u>-</u>	23.3	23.3	7.8	7.8	27.1	27.1	94.7	94.5	6.9		1.1	1	3	1		
05-						-	-	-	-		-		-	<b>†</b>	-		-	6.9	-	1	-	_		
SR8	Misty	Rough	14:01	4.4	Middle	-	-	-	-	-	-	-	-	1 -		1 -	-		-	1.6	-	3	820402	811627
					Deller	3.4	-	-	23.5	20.5	7.8	7.0	26.9	20.0	95.6	05.0	7.0	7.0	2.0	1	2	1		
					Bottom	3.4	-	-	23.5	23.5	7.8	7.8	26.8	26.8	95.9	95.8	7.0	7.0	2.0	1	3	1		
			•		•				•					_	_				•					

Water Quality Monitoring Results on 22 April 23 during Mid-Flood Tide

water Quai	ity Monite	Jilly Kesu	IS OII		22 April 23	auring Mia-	rioou ii	ue																
Monitoring	Weather	Sea	Sampling	Water	Sampling Dept	h (m)	Current Speed	Current	Water Te	emperature (°C)		рН	Salin	ity (ppt)		aturation (%)	Disso Oxyg		Turbidity	(NTU)	Suspende (mg		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling Dept	(111)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Curtosa	1.0	0.2	17	23.8	23.8	8.1	0.4	31.4	31.4	92.3	92.2	6.6		5.2		9			
					Surface	1.0	0.2	10	23.8	23.8	8.1	8.1	31.4	31.4	92.1	92.2	6.6	0.0	5.3	1	8			
C1	Cloudy	Davish	07:10	8.3	Middle	4.2	0.2	45	23.8	23.8	8.1	8.1	31.6	31.6	91.4	91.4	6.5	6.6	6.1	6.9	8	9	815615	804228
CI	Cloudy	Rough	07:10	8.3	Middle	4.2	0.2	47	23.8	23.8	8.1	8.1	31.6	31.0	91.4	91.4	6.5		6.0	6.9	9	9	813613	804228
					Dattam	7.3	0.2	35	23.8	23.8	8.1	8.1	31.8	31.8	81.5	81.4	5.8	5.8	9.0	1	9			
					Bottom	7.3	0.3	41	23.8	23.8	8.1 8.1	8.1	31.8	31.8	81.2	81.4	5.8	5.8	9.6	1	10			
					Surface	1.0	0.5	340	24.2	24.2	8.1	8.1	28.6	28.6	93.3	93.3	6.6		3.0		4			
					Sunace	1.0	0.5	332	24.2	24.2	8.1	0.1	28.6	20.0	93.3	93.3	6.6	6.7	3.0		4			
C2	Cloudy	Rough	09:17	12.3	Middle	6.2	0.5	353	24.2	24.2	8.1	8.1	28.7	28.7	94.7	94.7	6.8	0.7	3.1	3.1	4	4	825687	806958
OZ.	Cloudy	rtougii	03.17	12.5	Middle	6.2	0.4	0	24.2	24.2	8.1	0.1	28.7	20.7	94.7	34.7	6.8		3.2	5.1	4	7	023007	000330
					Bottom	11.3	0.5	351	24.2	24.2	8.1	8.1	28.6	28.6	95.3	95.4	6.8	6.8	3.2	1	4			
					Dottom	11.3	0.5	346	24.2	24.2	8.1	0.1	28.6	20.0	95.4	33.4	6.8	0.0	3.3		4			
					Surface	1.0	0.5	248	22.8	22.8	7.9	7.9	27.4	27.4	89.7	89.7	6.6		1.1		4			
					- Cundoo	1.0	0.6	250	22.8	22.0	7.9		27.4		89.7	00	6.6	6.6	1.1		3			
C3	Misty	Rough	07:55	12.8	Middle	6.4	0.5	251	22.8	22.8	7.9 7.9	7.9	26.9	26.8	89.6	89.6	6.6	0.0	2.0	2.1	3	4	822118	817796
						6.4	0.5	248	22.8				26.7		89.6		6.6		2.1		4			
					Bottom	11.8	0.5	236	22.8	22.9	7.8	7.8	25.9 25.7	25.8	89.7	89.7	6.7	6.7	3.0		4			
						11.8	0.5	229	22.9						89.7		6.6		3.0		5			
					Surface	1.0	0.2	11	23.8	23.8	8.1	8.1	30.2	30.3	94.8	94.8	6.8		3.8	ļ	10			
						1.0	0.2	12	23.8		8.1		30.3		94.7		6.8	6.8	3.9		10			
IM1	Cloudy	Rough	07:35	6.4	Middle	3.2	0.2	26	23.7	23.7	8.1	8.1	30.9	30.9	93.7	93.7	6.7		4.8	4.4	9	9	818353	806437
	-	_				3.2 5.4	0.2	23	23.7		8.1	ļ	30.9		93.7		6.7		4.9	ł	10			
					Bottom	5.4	0.2	8 14	23.7	23.7	8.1 8.1	8.1	31.0 30.9	30.9	93.1	93.1	6.6	6.6	4.8 4.6	ł	<u>8</u> 9			
						1.0	0.2	3			_				95.5				3.2		8			
					Surface	1.0	0.1	3	23.8	23.8	8.1 8.1	8.1	30.2	30.2	95.4	95.5	6.8		3.4	ł	8			
						3.5	0.1	348	23.8				30.2		94.8		6.8	6.8	3.8	ł	7			
IM2	Cloudy	Rough	07:40	6.9	Middle	3.5	0.2	353	23.8	23.8	8.1	8.1	30.6	30.6	94.8	94.8	6.8		3.7	3.6	- 8	7	819161	806253
						5.9	0.2	20	23.8		8.1		30.6		94.3		6.7		3.9	ł	6			
					Bottom	5.9	0.2	20	23.8	23.8	8.1	8.1	30.6	30.6	94.3	94.3	6.7	6.7	3.9	ł	5			
						1.0	0.2	344	24.0				29.4		88.9		6.4		3.1		4			
					Surface	1.0	0.2	342	23.9	24.0	8.1 8.1	8.1	29.5	29.5	88.9	88.9	6.4		3.3	1	4			
						3.9	0.2	345	23.9		8.1		30.3		89.1			6.4	8.3		5	_		
IM7	Cloudy	Rough	08:15	7.8	Middle	3.9	0.2	342	23.9	23.9	8.1	8.1	30.3	30.3	89.1	89.1	6.4		8.5	7.0	4	5	821345	806857
					D. H	6.8	0.2	328	23.8	00.0	8.1	0.4	30.4	00.4	89.0	00.0	6.4	0.4	9.6	i	5			
					Bottom	6.8	0.2	328	23.8	23.8	8.1	8.1	30.4	30.4	89.0	89.0	6.4	6.4	9.6	1	6			

DA: Depth-Averaged

Water Quality Monitoring Results on 22 April 23 during Mid-Flood Tide

Water Quar	,	<b>g</b>	1		ZZ Aprii Zo	auring ima																	1	
Monitoring	Weather	Sea	Sampling	Water	Sampling Dept	h (m)	Current Speed	Current	Water To	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)	Sampling Dept	II (III <i>)</i>	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Curtana	1.0	0.3	280	23.0	22.0	7.9	7.0	26.9	27.0	91.8	04.0	6.7		1.3		6			
					Surface	1.0	0.4	275	23.0	23.0	7.9	7.9	27.1	27.0	91.7	91.8	6.7	0.0	1.3		8			
IM10	Minter	Davish	00.04	0.0	Middle	4.3	0.3	300	22.9	22.0	7.9	7.0	27.5	27.5	92.3	00.5	6.8	6.8	2.4	2.0	4	_	000005	000005
IIVITO	Misty	Rough	09:04	8.6	Middle	4.3	0.4	294	23.0	23.0	7.9	7.9	27.6	27.5	92.7	92.5	6.8		2.5	2.6	5	5	822225	809825
					D.H.	7.6	0.4	301	23.2	00.0	7.9	7.0	27.5	07.4	93.5	00.7	6.8	0.0	4.0		3			
					Bottom	7.6	0.4	305	23.3	23.3	7.9	7.9	27.4	27.4	93.8	93.7	6.8	6.8	4.0		4			
					0	1.0	0.5	275	23.1	00.4	7.9	7.0	27.0	07.0	91.8	04.0	6.7		1.1		<2			
					Surface	1.0	0.4	282	23.1	23.1	7.9	7.9	27.1	27.0	91.9	91.9	6.7	0.0	1.1		<2			
IM11	Minter	Davish	00.57	7.0	NA: dalla	3.8	0.5	278	23.2	22.2	7.9	7.0	27.2	27.2	92.4	00.5	6.8	6.8	1.2	1	3	2	004.400	040555
IIVI I	Misty	Rough	08:57	7.6	Middle	3.8	0.5	273	23.2	23.2	7.9	7.9	27.1	27.2	92.6	92.5	6.8		1.2	1.4	4	3	821498	810555
					Dettern	6.6	0.5	279	23.4	22.5	7.9	7.0	27.0	27.0	93.3	02.5	6.8	C 0	1.7	1	4			
					Bottom	6.6	0.5	279	23.5	23.5	7.9	7.9	26.9	27.0	93.6	93.5	6.8	6.8	1.8		3			
					0	1.0	0.5	271	23.1	00.4	7.9	7.0	27.4	07.4	92.0	00.4	6.7		1.1		3			
					Surface	1.0	0.6	264	23.1	23.1	7.9	7.9	27.4	27.4	92.1	92.1	6.7	0.0	1.1		4			
			00.54			3.7	0.5	273	23.2	20.0	7.9		27.3		92.7		6.8	6.8	1.3	1	3			
IM12	Misty	Rough	08:51	7.4	Middle	3.7	0.5	268	23.3	23.3	7.9	7.9	27.2	27.3	93.0	92.9	6.8		1.2	1.7	4	4	821143	811517
					5 "	6.4	0.5	266	23.5		7.9		27.1		93.6		6.8		2.9	1	4			
					Bottom	6.4	0.5	271	23.6	23.6	7.9	7.9	27.0	27.1	93.7	93.7	6.8	6.8	2.9		6			
						1.0	0.0	211	23.2		7.9		26.8		92.9		6.8		1.7		6			
					Surface	1.0	0.0	210	23.3	23.3	7.9	7.9	26.8	26.8	93.1	93.0	6.8		1.7		6			
0044						2.2	0.0	198	-		-		-		-		-	6.8	-		-	_	040075	0400==
SR1A	Misty	Moderate	08:31	4.4	Middle	2.2	0.0	193	-	-	-	-	-	-	-	-	-		-	2.1	-	5	819975	812655
					5 "	3.4	0.0	197	23.5		7.8		26.8		93.7		6.8		2.6	1	5			
					Bottom	3.4	0.0	198	23.6	23.6	7.8	7.8	26.7	26.8	93.8	93.8	6.8	6.8	2.5	1	4			
					0.1	1.0	0.1	232	23.0		7.8		19.9		91.9		7.0		1.9		5			
					Surface	1.0	0.1	227	23.0	23.0	7.8	7.8	19.2	19.5	92.0	92.0	7.1		1.9	1	4			
						-	0.1	206	-		-		-		-		-	7.1	-	1	-	_		
SR2	Misty	Rough	08:18	4.0	Middle	-	0.0	199	-	-	-	-	-	-	-	-	-		_	2.0	-	3	821473	814170
					_	3.0	0.1	243	23.0		7.7		15.8		95.5		7.5		2.1	1	2			
					Bottom	3.0	0.1	237	23.0	23.0	7.7	7.7	14.2	15.0	95.8	95.7	7.6	7.6	2.1	1	2			
						1.0	0.3	330	24.2		8.1		28.4		92.4		6.6		2.9		4			
					Surface	1.0	0.4	327	24.2	24.2	8.1	8.1	28.4	28.4	92.4	92.4	6.6		3.0	1	4			
						4.2	0.4	351	24.1		8.1		28.9		91.3		6.5	6.6	4.6	1	4			
SR3	Cloudy	Rough	08:47	8.4	Middle	4.2	0.4	356	24.0	24.1	8.1	8.1	29.0	28.9	91.3	91.3	6.5		4.7	4.3	4	5	822155	807577
					_	7.4	0.3	326	24.0		8.1		29.1		91.2		6.5		5.4	1	5			
					Bottom	7.4	0.3	322	24.0	24.0	8.1	8.1	29.1	29.1	91.2	91.2	6.5	6.5	5.3	1	6			
						1.0	0.0	194	23.9		8.1		31.2		91.9		6.5		6.2		15			
					Surface	1.0	0.0	188	23.9	23.9	8.1	8.1	31.2	31.2	91.8	91.9	6.5		6.2	1	14			
						4.8	0.0	182	23.9		8.1		31.2		91.6		6.5	6.5	6.7	1	14			
SR4A	Cloudy	Moderate	06:42	9.5	Middle	4.8	0.0	185	23.9	23.9	8.1	8.1	31.2	31.2	91.6	91.6	6.5		6.7	6.7	13	14	817184	807815
					_	8.5	0.0	167	23.9		8.1		31.3		91.5		6.5		7.0	1	13		1	
					Bottom	8.5	0.0	173	23.9	23.9	8.1	8.1	31.3	31.3	91.5	91.5	6.5	6.5	7.0	1	14		1	
				<u> </u>		1.0	-	-	23.1		7.9		27.3		93.4		6.8		2.0		8		<del> </del>	
					Surface	1.0	-	-	23.1	23.1	7.9	7.9	27.3	27.3	93.5	93.5	6.8		2.0	1	7		1	
						-	-		-		-		-		-		-	6.8	-	1	-		1	
SR8	Misty	Moderate	08:47	4.6	Middle	-	-	-	-	-	F-	-	H	-	H	-	-		-	2.5	-	6	820393	811621
						3.6	-	-	23.1		7.9		27.4		94.0		6.9		3.0	1	4		1	
					Bottom	3.6	<u> </u>	-	23.1	23.1	7.9	7.9	27.4	27.4	94.0	94.1	6.9	6.9	3.0	1	4		I	
			1		I	3.0		-	25.1		1.5	L	41.4	I	J4. I		0.5		5.0	1	4		1	

Water Quality Monitoring Results on 25 April 23 during Mid-Ebb Tide

water Quai	ity wonit	oring Kesu	112 011		25 April 23	auring Mia-	EDD TIGE																	
Monitoring	Weather	Sea	Sampling	Water	Sampling Dept	h (m)	Current Speed	Current	Water Te	emperature (°C)		рН	Salini	ty (ppt)	DO S	aturation (%)	Disso Oxy		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	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					0	1.0	0.6	209	23.8	23.8	8.2	0.0	28.4	28.5	91.8	91.7	6.6		6.3		3			
					Surface	1.0	0.5	205	23.7	23.8	8.2	8.2	28.5	28.5	91.5	91.7	6.6		6.8		3			
C1	F	Madazata	16:12	0.0	Middle	4.2	0.5	199	23.7	23.7	8.2	8.2	33.6	33.6	91.0	91.0	6.4	6.5	9.5	8.9	3	3	815640	804230
Ci	Foggy	Moderate	10:12	8.3	Middle	4.2	0.6	203	23.7	23.7	8.2	8.2	33.6	33.0	91.0	91.0	6.4	,	9.4	8.9	3	3	815640	804230
					Bottom	7.3	0.5	233	23.7	23.7	8.2 8.2	8.2	33.6	33.6	91.6	91.7	6.4 6.4	6.4	10.6	1	2			
					Bottom	7.3	0.5	235	23.7	25.7	8.2	0.2	33.6	33.0	91.7	91.7	6.4	0.4	10.6		3			
					Surface	1.0	0.2	178	24.3	24.3	8.1	8.1	24.7	24.7	92.2	92.2	6.7		1.9		<2			
					Surface	1.0	0.3	172	24.3	24.0	8.1	5.	24.7	24.7	92.1	32.2	6.7	6.7	1.9		<2			
C2	Foggy	Moderate	14:44	11.8	Middle	5.9	0.3	187	24.3	24.3	8.1	8.1	27.7	27.7	92.0	92.1	6.6	0.7	2.1	3.8	<2	2	825697	806928
02	i oggy	Woderate	14.44	11.0	Middle	5.9	0.3	194	24.3	24.0	8.1	0.1	27.8	21.1	92.1	32.1	6.6		2.2	3.0	<2		023037	000320
					Bottom	10.8	0.3	171	24.2	24.2	8.1	8.1	28.0	28.0	92.6	92.7	6.6	6.6	7.4		2			
					Dottom	10.8	0.3	170	24.2	24.2	8.1	0.1	28.0	20.0	92.7	02.7	6.6	0.0	7.6		2			
					Surface	1.0	0.5	85	23.1	23.1	7.9	7.9	23.7	24.0	89.3	89.3	6.7		1.1		5			
					Cundo	1.0	0.5	82	23.1	20	7.9		24.3	20	89.2	00.0	6.6	6.6	1.1		4			
СЗ	Rainy	Moderate	15:37	9.6	Middle	4.8	0.6	70	23.1	23.1	7.9 7.9	7.9	28.1	28.1	89.3	89.4	6.5	0.0	1.2	1.2	3	4	822085	817814
00		moderate	10.01	0.0	madio	4.8	0.6	69	23.1	20			28.1	20	89.5	00.1	6.5		1.2		4	·	022000	00
					Bottom	8.6	0.5	101	23.1	23.1	7.9	7.9	28.4	28.4	90.5	90.9	6.6	6.6	1.3		3			
						8.6	0.5	105	23.1		7.9		28.3		91.2		6.6		1.3		2			
					Surface	1.0	0.3	194	23.9	23.9	8.2	8.2	28.4	28.4	96.4	96.3	6.9		5.8	_	3			
						1.0	0.3	191	23.9		8.2		28.4		96.2		6.9	6.7	6.1	4	3			
IM1	Foggy	Moderate	15:50	6.6	Middle	3.3	0.3	183	23.8	23.8	8.2 8.2	8.2	33.1	33.1	93.3	93.4	6.5		7.8	7.4	4	3	818370	806467
	007					3.3	0.3	186	23.8				33.1		93.4		6.5		7.6	1	3			
					Bottom	5.6	0.3	206	23.8	23.8	8.2 8.2	8.2	33.1	33.1	94.1	94.2	6.6	6.6	8.8	-	3			
						5.6	0.3	207	23.8				33.1						8.6		4			
					Surface	1.0	0.3	188	23.8	23.8	8.2	8.2	28.3	28.3	96.2 95.9	96.1	6.9		7.6	-	2			
						1.0	0.3	181	23.8				28.3				6.9	6.7	8.2	4	2			
IM2	Foggy	Moderate	15:46	7.8	Middle	3.9 3.9	0.3	209	23.8 23.8	23.8	8.2 8.2	8.2	33.1 33.1	33.1	93.4 93.8	93.6	6.5 6.6		9.6 9.1	9.2	2	2	819206	806250
						6.8	0.2	175												-	2			
					Bottom	6.8	0.3	168	23.8 23.8	23.8	8.2	8.2	33.0 33.0	33.0	94.5	94.7	6.6	6.6	10.2 10.5	-	2			
						1.0	0.3	125	24.2												<2			
					Surface	1.0	0.2	119	24.2	24.2	8.1 8.1	8.1	24.4	24.4	95.2 95.1	95.2	7.0 6.9		1.6	-	<2			
						4.3	0.2	133	24.2		8.1		28.9		93.0	1	6.9	6.8	3.6	-	<2			
IM7	Foggy	Moderate	15:10	8.6	Middle	4.3	0.2	132	24.1	24.1	8.1	8.1	28.7	28.8	93.0	93.0	6.6 6.6		3.7	3.0	<2	<u>&lt;2</u>	821341	806839
						7.6	0.2	125	24.1		8.1		29.7		93.0	1	6.6		4.0	1	<2	1	1	
					Bottom	7.6	0.2	119	24.1	24.1	8.1	8.1	29.7	29.6	92.8	92.7	6.6	6.6	3.7	1	<2		1	
DA: Donth Aver					I	1.0	0.2	113	24.1		0.1		23.0		32.0		0.0		J.1	1	<b>~</b> ∠	1	<u> </u>	

DA: Depth-Averaged

Water Quality Monitoring Results on 25 April 23 during Mid-Ebb Tide

water Quali	ty WOIII	oring itesu	ito on		25 April 23	auring Mia-	LDD HIGH																	
Monitoring	Weather	Sea	Sampling	Water	Sampling Dept	h (m)	Current Speed	Current	Water Te	emperature (°C)		рН	Salini	ty (ppt)		aturation (%)	Disso Oxy		Turbidity	(NTU)	Suspende (mg	ed Solids g/L)	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	112	23.3	23.3	7.9	7.9	23.0	23.0	92.2	92.1	6.9		1.1		5			
					Surface	1.0	0.3	106	23.3	23.3	7.9	7.9	23.0	23.0	92.0	92.1	6.9	6.9	1.1	1	4			
IM10	Doiny	Moderate	14:40	0.2	Middle	4.6	0.4	115	23.3	23.3	7.9	7.9	24.9	25.0	91.8	91.9	6.8	6.9	1.6	1.8	4	4	822251	809822
IIVITO	Rainy	Woderate	14.40	9.2	Middle	4.6	0.4	109	23.3	23.3	7.9	7.9	25.1	23.0	91.9	91.9	6.8		1.7	1.0	4	4	022231	009022
					Bottom	8.2	0.4	86	23.3	23.3	7.9	7.9	25.2	24.9	92.9	93.3	6.9	6.9	2.7		4			
					Bottom	8.2	0.4	89	23.3	25.5	7.9	1.5	24.6	24.5	93.6	93.3	6.9	0.9	2.7		3			
					Surface	1.0	0.5	83	23.3	23.3	7.9	7.9	23.5	23.4	91.3	91.2	6.8		1.1		5			
					Gundoc	1.0	0.5	89	23.3	20.0	7.9	7.0	23.4	20.4	91.1	01.2	6.8	6.8	1.2		5			
IM11	Rainy	Moderate	14:47	8.0	Middle	4.0	0.4	103	23.3	23.3	7.9	7.9	25.2	25.3	91.1	91.1	6.7	0.0	1.2	1.3	4	5	821483	810542
	rtuiry	Woderate	14.47	0.0	Wilddie	4.0	0.4	104	23.2	20.0	7.9	7.0	25.3	20.0	91.1	01.1	6.7		1.3	1.0	5	Ĭ	021400	010042
					Bottom	7.0	0.4	69	23.2	23.2	7.9	7.9	27.3	27.3	91.6	91.8	6.7	6.7	1.5		5			
					Dottom	7.0	0.4	63	23.2	20.2	7.9		27.3	21.0	91.9	01.0	6.7	0	1.5		4			
					Surface	1.0	0.5	104	23.2	23.2	7.9	7.9	24.1	24.1	90.1	90.1	6.7		1.3	1	4			
						1.0	0.5	110	23.1		7.9		24.1		90.0	****	6.7	6.7	1.2	1	4			
IM12	Rainy	Moderate	14:52	7.8	Middle	3.9	0.5	103	23.1	23.1	7.9	7.9	28.3	28.3	90.1	90.3	6.6		1.4	1.5	5	5	821155	811504
	,					3.9	0.5	99	23.1		7.9		28.3		90.5		6.6		1.5	1	4			
					Bottom	6.8	0.5	76	23.1	23.1	7.9	7.9	28.3	28.3	91.6	92.0	6.7	6.7	1.8	1	6			
						6.8	0.5	78	23.1		7.9		28.3		92.3		6.7		1.8		5			
					Surface	1.0	0.0	92	23.3	23.3	7.9	7.9	24.2	24.2	90.6	90.5	6.7		1.1	1	4			
						1.0	0.0	97	23.3		7.9		24.3		90.3		6.7	6.7	1.1	-	4			
SR1A	Rainy	Moderate	15:04	4.6	Middle	2.3	0.1	77	-	-	-	-	-	-	-	-	-		-	1.2	-	4	819978	812657
						2.3	0.0	70	-		-		-				-		-	4	-	4		
					Bottom	3.6	0.1	113	23.2	23.2	7.9	7.9	26.6	26.9	90.1	90.1	6.6	6.6	1.3	4	4	4		
						3.6	0.0	117	23.2		7.9		27.3		90.0		6.6		1.3	1	4			
					Surface	1.0 1.0	0.3	53 51	23.2	23.2	7.9 7.9	7.9	25.3 25.2	25.2	91.1	91.1	6.7		1.0	-	<u>3</u>			
							0.3	48	- 23.2				_		91.1		- 0.7	6.7		-				
SR2	Rainy	Moderate	15:21	4.6	Middle	-	0.4	48	-	-	-	-	-	-	-	-	-		-	1.6	-	4	821454	814173
						3.6	0.3	61	23.1		7.9		26.8		91.8		6.7		2.2	1	4	-		
					Bottom	3.6	0.3	53	23.1	23.1	7.9	7.9	26.4	26.6	92.6	92.2	6.8	6.8	2.2	1	4	-		
						1.0	0.3	136	24.2		8.1		24.8		94.5		6.9		2.6		<2			
					Surface	1.0	0.3	130	24.2	24.2	8.1	8.1	24.9	24.8	94.3	94.4	6.9		2.7	1	<2			
						4.4	0.3	156	24.2		8.2		27.3		92.8		6.7	6.8	4.6	1	<2			
SR3	Foggy	Moderate	15:04	8.7	Middle	4.4	0.3	153	24.2	24.2	8.2	8.2	27.6	27.4	92.7	92.8	6.7		5.0	4.4	<2	2	822156	807564
					_	7.7	0.3	168	24.2		8.2		29.5		92.6		6.6		5.9	1	2			
					Bottom	7.7	0.3	172	24.2	24.2	8.2	8.2	29.6	29.5	92.6	92.6	6.6	6.6	5.9	1	2			
					0	1.0	0.0	99	24.1	04.4	8.2	0.0	28.7	00.7	89.9	00.0	6.4		6.6		4		İ	
					Surface	1.0	0.1	93	24.1	24.1	8.2	8.2	28.7	28.7	89.8	89.9	6.4	C 4	6.8	1	5	1		
CD4A		Madagat-	40.05	0.0	NA: dalla	4.3	0.0	71	24.1	24.4	8.2	0.0	31.4	24.2	90.2	00.2	6.3	6.4	7.5	7.4	5	1 ,	047404	007700
SR4A	Foggy	Moderate	16:35	8.6	Middle	4.3	0.1	65	24.1	24.1	8.2	8.2	31.3	31.3	90.4	90.3	6.4		7.5	7.1	4	4	817181	807799
					Bottom	7.6	0.0	78	24.1	24.1	8.2	8.2	31.1	31.1	91.4	91.5	6.4	6.4	7.2	1	2	1		
					DULLUIII	7.6	0.0	76	24.1	24.1	8.2	0.2	31.1	31.1	91.6	91.0	6.4	0.4	7.0		4			
					Surface	1.0	-	-	23.3	23.3	7.9	7.9	24.4	24.4	92.3	92.2	6.8		1.1		5			_
					Guilade	1.0	-	-	23.3	20.0	7.9	7.3	24.4	2-7.7	92.1	U2.2	6.8	6.8	1.2		5	]		
SR8	Rainy	Moderate	14:56	5.0	Middle	-	-	-	-	_	-	_	-	_	-	_	-	0.0	-	1.6	-	5	820378	811607
						-	-	-	-		-		-		-		-		-	1	-	1		
					Bottom	4.0	-	-	23.2	23.2	7.9	7.9	26.6	26.3	92.2	92.4	6.8	6.8	2.0	4	6	4		
						4.0	-	-	23.2	-	7.9	-	26.1		92.6	_	6.8		2.1		5			

Water Quality Monitoring Results on 25 April 23 during Mid-Flood Tide

Water Qual	ity Monite	oring Resu	its on		25 April 23	during Mid-	Flood II	ae																
Monitoring	Weather	Sea	Sampling	Water	Sampling Dep	th (m)	Current Speed	Current	Water Te	emperature (°C)		рН	Salir	nity (ppt)		aturation (%)	Disso Oxy		Turbidity	(NTU)	Suspende (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling Dep	ui (iii)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					0	1.0	0.1	47	23.9	00.0	8.2	0.0	29.0	00.0	91.5	04.5	6.5		10.8		3			
					Surface	1.0	0.1	53	23.9	23.9	8.2	8.2	29.0	29.0	91.4	91.5	6.5		10.4	1	4			
0.4	_					4.4	0.2	49	23.8	20.0	8.2		32.9		91.1		6.4	6.5	8.3	١	4		0.45000	
C1	Foggy	Moderate	07:59	8.7	Middle	4.4	0.2	48	23.8	23.8	8.2	8.2	32.9	32.9	91.1	91.1	6.4		8.1	8.2	3	4	815638	804248
					Dallana	7.7	0.1	17	23.8	00.0	8.2	8.2	32.9	00.0	91.2	04.0	6.4	0.4	5.6	1	5			
					Bottom	7.7	0.2	24	23.8	23.8	8.2	8.2	32.9	32.9	91.2	91.2	6.4	6.4	6.0	1	4			
					Surface	1.0	0.2	333	24.3	24.3	8.1	8.1	25.0	25.0	92.2	92.2	6.7		1.7		3			
					Surface	1.0	0.3	326	24.3	24.3	8.1	8.1	25.0	25.0	92.2 92.1	92.2	6.7	6.7	1.8	1	4			
C2	Foggy	Moderate	09:19	12.4	Middle	6.2	0.2	338	24.3	24.3	8.1	8.1	25.8	25.8	92.1	92.2	6.7	0.7	2.1	2.0	2	3	825694	806941
02	i oggy	Moderate	09.19	12.4	Middle	6.2	0.2	343	24.3	24.3	8.1	0.1	25.8	23.0	92.3	92.2	6.7		2.2	2.0	2	3	023094	800941
					Bottom	11.4	0.3	336	24.3	24.3	8.1	8.1	27.1	27.1	94.0	94.1	6.7	6.8	2.2		<2			
					Dottom	11.4	0.3	332	24.3	24.5	8.1	0.1	27.0	27.1	94.2	34.1	6.8	0.0	2.2		<2			
					Surface	1.0	0.3	266	22.9	22.9	7.9	7.9	26.7	26.8	88.0 87.8	87.9	6.5		1.0		3			
					Curiaco	1.0	0.2	269	22.8	22.0	7.9	7.0	26.8	20.0		07.0	6.5	6.5	1.1		4			
C3	Misty	Calm	08:59	11.8	Middle	5.9	0.3	274	22.8	22.8	7.9 7.9	7.9	29.7	29.7	87.9 87.9	87.9	6.4		1.1	1.3	4	4	822107	817825
	. ,					5.9	0.3	271	22.8				29.7				6.4		1.2		4			
					Bottom	10.8	0.3	253	22.7	22.7	7.9 7.9	7.9	29.8	29.8	88.2 88.3	88.3	6.4	6.4	1.7	Į.	5			
						10.8	0.3	246	22.7				29.8				6.4		1.6		5			
					Surface	1.0	0.1 0.1	19 17	24.1 24.1	24.1	8.2 8.2	8.2	28.2	28.2	96.6 96.6	96.6	6.9 6.9		3.1	ļ	4			
						3.2	0.1	16									6.6	6.8	3.0					
IM1	Foggy	Moderate	08:20	6.4	Middle	3.2	0.1	20	23.9 23.9	23.9	8.2 8.2	8.2	28.3	28.3	92.6 92.5	92.6	6.6		3.2	4.9	3 4	3	818350	806449
						5.4	0.0	6	23.9		8.2		32.4				6.5		8.1		3			
					Bottom	5.4	0.1	9	23.9	23.9	8.2	8.2	32.4	32.4	92.4 92.6	92.5	6.5	6.5	8.2		2			
						1.0	0.1	17	24.0		8.2		28.1				6.9		3.6		2			
					Surface	1.0	0.1	20	24.0	24.0	8.2	8.2	28.1	28.1	95.9 95.9	95.9	6.9		3.7		3			
	_					3.7	0.1	14	24.0				29.4					6.7	5.2	1	4			
IM2	Foggy	Moderate	08:24	7.3	Middle	3.7	0.2	11	24.0	24.0	8.2	8.2	29.3	29.3	90.5	90.4	6.5 6.4		5.9	6.4	3	4	819162	806218
					Dallana	6.3	0.1	10	24.0	04.0		0.0	32.1	00.4	90.0	00.0	6.3	0.0	9.8	1	5			
					Bottom	6.3	0.1	6	24.0	24.0	8.2	8.2	32.0	32.1	89.9	90.0	6.3	6.3	10.0	1	4			
					Cuntaga	1.0	0.1	351	24.2	24.2	8.1	0.4	24.1	24.1	96.3	96.3	7.0		2.6		5			
					Surface	1.0	0.1	349	24.2	24.2	8.1	8.1	24.1	24.1	96.3 96.2	90.3	7.0	6.8	2.8	1	4			
IM7	Foggy	Moderate	08:49	8.2	Middle	4.1	0.2	348	24.2	24.2	8.1	8.1	29.7	29.7	91.6 91.6	91.6	6.5 6.5	0.0	5.0	4.2	4	3	821353	806839
11717	i oggy	wouerate	00.49	0.2	ivildale	4.1	0.2	341	24.2	24.2	8.1	0.1	29.7	29.1	91.6	91.0			5.0	4.2	3	3	021333	000039
					Bottom	7.2	0.1	323	24.2	24.2	8.1	8.1	29.7	29.7	91.7	91.8	6.5	6.5	4.8	1	2			
					Dottom	7.2	0.1	324	24.2	27.2	8.1	0.1	29.7	20.7	91.8	01.0	6.5	0.0	4.7	<u> </u>	2			
DA: Denth-Aver	ogod																							

DA: Depth-Averaged

Water Quality Monitoring Results on 25 April 23 during Mid-Flood Tide

water Quali	ty Wollin	orning ixesa	113 011		25 April 23	auring Mia-	1 1000 11	ue																
Monitoring	Weather	Sea	Sampling	Water	Complies Danie	th (m)	Current Speed	Current	Water Te	emperature (°C)		рН	Salin	ity (ppt)		aturation (%)	Disso Oxy		Turbidity	(NTU)	Suspend (mo	ed Solids g/L)	Coordinate	Coordinate
Station	Condition	Condition	Time	Depth (m)	Sampling Dept	ın (m)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	HK Grid (Northing)	HK Grid (Easting)
					Surface	1.0	0.4	284	23.3	23.3	7.9	7.9	24.7	24.4	90.0	90.0	6.7		1.1		4			
					Surface	1.0	0.5	284	23.3	23.3	7.9	7.9	24.1	24.4	89.9	90.0	6.7	6.7	1.0	1	4			
IM10	Mioty	Calm	10:05	8.6	Middle	4.3	0.4	309	23.3	23.3	7.9	7.9	26.3	26.3	90.4	90.5	6.6	6.7	1.4	1.5	3	4	822261	809833
IIVITO	Misty	Callii	10.05	0.0	Middle	4.3	0.5	308	23.3	23.3	7.9	7.9	26.4	20.3	90.6	90.5	6.6		1.5	1.5	4	4	022201	009033
					Bottom	7.6	0.3	277	23.3	23.3	7.9	7.9	26.5	26.4	91.8	92.2	6.7	6.8	2.0		3			
					Bottom	7.6	0.3	281	23.3	23.3	7.9	7.5	26.3	20.4	92.5	32.2	6.8	0.0	2.0		4			
					Surface	1.0	0.5	292	23.2	23.2	7.9	7.9	23.9	23.6	90.3	90.2	6.7		1.1		4			
					Guildoo	1.0	0.5	293	23.2	20.2	7.9	7.5	23.4	20.0	90.0	00.2	6.7	6.6	1.2		5			
IM11	Misty	Calm	09:57	8.0	Middle	4.0	0.5	267	23.2	23.2	7.9	7.9	27.0	27.0	89.1	89.1	6.5	0.0	1.4	1.4	4	4	821489	810556
	Whoty	Odim	00.07	0.0	Wildelic	4.0	0.5	261	23.2	20.2	7.9	7.0	27.1	27.0	89.0	00.1	6.5		1.3	1	4		021400	010000
					Bottom	7.0	0.4	263	23.2	23.2	7.9	7.9	27.0	26.9	90.1	90.5	6.6	6.7	1.6		3			
					Bottom	7.0	0.4	258	23.2	20.2	7.9	7.0	26.9	20.0	90.9	00.0	6.7	0.7	1.6		3			
					Surface	1.0	0.4	272	23.2	23.2	7.9	7.9	24.4	24.2	90.0	89.9	6.7		1.4		4			
					Gundo	1.0	0.4	270	23.1	20.2	7.9		23.9	22	89.8	00.0	6.7	6.7	1.6		5			
IM12	Misty	Calm	09:49	7.2	Middle	3.6	0.4	286	23.1	23.1	7.9	7.9	27.8	27.9	89.9	90.1	6.6		2.1	2.1	4	4	821164	811540
2	···ioty	ou	00.10		madio	3.6	0.4	290	23.1	20	7.9		28.0	27.10	90.2	00.1	6.6		2.0		5		021101	011010
					Bottom	6.2	0.5	298	23.0	23.1	7.9	7.9	28.4	28.3	90.8	91.2	6.6	6.7	2.6		4			
					Dotto	6.2	0.5	294	23.1	20	7.9	7.0	28.3	20.0	91.5	01.12	6.7	0	2.6		4			
					Surface	1.0	-	212	23.3	23.3	7.9	7.9	23.2	23.3	91.8	91.8	6.9		1.0		4			
					Gundo	1.0	0.0	212	23.3	20.0	7.9	1.0	23.4	20.0	91.7	01.0	6.8	6.9	1.1	1	4			
SR1A	Misty	Calm	09:30	4.2	Middle	2.1	0.1	200	-	_	-	_	-	-	-	-	-		-	1.4	-	4	819979	812661
						2.1	0.0	194	-		-		-		-		-		-	1	-	1		
					Bottom	3.2	0.0	192	23.2	23.3	7.9	7.9	24.0	23.8	91.6	91.7	6.8	6.8	1.9	1	4			
						3.2	0.0	185	23.3		7.9		23.7		91.8		6.8		1.8		5			
					Surface	1.0	0.1	227	23.2	23.2	7.9	7.9	24.9	24.9	90.5	90.4	6.7		1.2	_	3			
						1.0	0.0	221	23.2		7.9		24.9		90.3		6.7	6.7	1.3	4	4			
SR2	Misty	Calm	09:15	5.8	Middle	-	0.1	222	-	-	-	-	-	-	-	-	-		-	2.1	-	5	821483	814163
	,						0.1	219	-		-		-		-		-		-	1	-			
					Bottom	4.8	0.1	243	23.0	23.0	7.9	7.9	28.4	28.4	89.7	90.0	6.5	6.6	3.0	1	6			
						4.8	0.1	236	23.0		7.9		28.3		90.3		6.6		2.8		5			
					Surface	1.0	0.2	342	24.2	24.2	8.1	8.1	24.6	24.6	94.1	94.0	6.9		3.0	4	2	-		
						1.0	0.2	341	24.2		8.1		24.6		93.9		6.8	6.8	3.4	-	2			
SR3	Foggy	Moderate	08:56	9.1	Middle	4.6	0.1	329	24.2	24.2	8.2	8.2	26.4	27.0	93.5	93.5	6.7		5.3	4.8	2	2	822153	807567
						4.6	0.1	334	24.2				27.6		93.5		6.6		5.5	4	3	4		
					Bottom	8.1 8.1	0.2	339 344	24.2 24.2	24.2	8.2	8.2	29.6 29.6	29.6	93.8	93.9	6.6	6.7	5.9 5.8	4	2	4		
			1		<u> </u>						_									<u> </u>		<u> </u>	<u> </u>	
					Surface	1.0	0.0	229 225	24.3 24.3	24.3	8.1 8.1	8.1	27.7	27.7	93.8	93.9	6.7		8.1	4	<u>3</u>	4		
							0.0		24.3								6.7	6.5	8.2	4		4		
SR4A	Foggy	Moderate	07:36	8.8	Middle	4.4	0.0	208 203	24.3	24.3	8.1 8.1	8.1	29.2	29.3	88.3 88.2	88.3	6.3		5.3 5.1	5.8	4	4	817195	807792
						7.8	0.0	203	24.3		8.1		29.3		83.3		5.9		4.1	-	5	1		
					Bottom	7.8	0.0	203	24.2	24.2	8.1	8.1	29.8	29.8	83.3	83.3	5.9	5.9	4.1	1	4	1		
						1.0	- 0.0	-	23.3		7.9		23.4		90.3		6.7		1.8	<u> </u>	3	<u> </u>	<u> </u>	
					Surface	1.0	-		23.3	23.3	7.9	7.9	23.4	23.4	90.3	90.2	6.7		1.7	1	4	1		
						-	-		-		-		-		-		-	6.7	-	1	-	1		
SR8	Misty	Calm	09:45	5.0	Middle	-	-		-	-	H	-		-	H	-	-			1.9	-	3	820380	811637
						4.0	-		23.1		7.9		27.6		90.5		6.6		2.0	1	3	1		
					Bottom	4.0	-	<del>-</del>	23.1	23.2	7.9	7.9	26.8	27.2	91.1	90.8	6.7	6.7	2.0	1	2	1		
DA: Depth-Avera					1	<b>⊤.</b> ∪	1		20.2		1.5	1	20.0		<i>⊍</i> 1.1		0.1		۷.۷			1	ı	

Water Quality Monitoring Results on 27 April 23 during Mid-Ebb Tide

water Qual	ity wont	Jilliy Kesu	ILS UII		27 April 23	auring Mia-	EDD TIU	<del>-</del>																
Monitoring	Weather	Sea	Sampling	Water	Sampling Dept	h (m)	Current Speed	Current	Water Te	emperature (°C)	p	Н	Salin	ity (ppt)		aturation (%)	Disso Oxy		Turbidity	(NTU)	Suspende (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)	(Easting)
					Surface	1.0	0.4	213	22.6	22.6	8.0	8.0	27.0	26.9	98.2	97.9	7.3		4.7		<2			
					Surface	1.0	0.4	209	22.6	22.0	8.0	8.0	26.8	26.9	97.6	97.9	7.2	7.1	5.0		<2			
C1	Claudi	Davish	17:58	0.0	Middle	4.3	0.4	225	22.5	22.5	8.0	8.0	26.1	26.0	93.1	93.2	6.9	7.1	9.0	7.2	2	3	815638	804241
CI	Cloudy	Rough	17:58	8.6	Middle	4.3	0.4	220	22.5	22.5	8.0	8.0	25.9	26.0	93.2	93.2	7.0		9.8	1.2	2	3	813638	804241
					Bottom	7.6	0.4	234	22.5	22.6	8.0	8.0	25.6	25.4	93.4	93.5	7.0	7.0	7.1		4			
					DOLLOITI	7.6	0.4	227	22.6	22.0	8.0	6.0	25.3	25.4	93.5	93.5	7.0	7.0	7.7		4			
					Surface	1.0	0.3	177	22.7	22.7	8.0	8.0	27.3	27.3	93.3	93.2	6.9		0.3		4			
					Surface	1.0	0.2	180	22.7	22.1	8.0	0.0	27.3	21.3	93.0	93.2	6.9	6.8	0.3		2			
C2	Cloudy	Rough	16:31	11.8	Middle	5.9	0.2	182	22.6	22.6	8.0	8.0	27.9	28.0	89.6	89.6	6.6	0.0	2.4	2.0	2	2	825678	806956
02	Cloudy	Rough	10.51	11.0	Middle	5.9	0.2	181	22.6	22.0	8.0	0.0	28.0	20.0	89.5	09.0	6.6		2.7	2.0	2	2	023070	800930
					Bottom	10.8	0.2	155	22.6	22.6	8.0	8.0	28.5	28.5	89.2	89.2	6.5	6.5	3.2		<2			
					Bottom	10.8	0.3	158	22.6	22.0	8.0	0.0	28.6	20.0	89.2	03.2	6.5	0.5	3.0		<2			
					Surface	1.0	0.3	58	23.8	23.8	8.2	8.2	32.6	32.6	92.9	92.9	6.5		1.2		4			
					Ourlace	1.0	0.3	53	23.8	23.0	8.2	0.2	32.6	32.0	92.9	32.3	6.5	6.4	1.2		4			
СЗ	Cloudy	Rough	18:17	10.8	Middle	5.4	0.3	61	23.5	23.5	8.2	8.2	33.4	33.4	87.6	87.7	6.2	0.4	1.4	1.8	4	4	822130	817795
03	Cloudy	rtougn	10.17	10.0	Middle	5.4	0.3	63	23.5	23.3	8.2	0.2	33.4	55.4	87.7	01.1	6.2		1.4	1.0	3	7	022130	017733
					Bottom	9.8	0.3	92	23.4	23.4	8.2 8.2	8.2	33.9	33.9	86.1 86.2	86.2	6.0	6.0	2.8		3			
					Dottom	9.8	0.4	88	23.4	25.4	8.2	0.2	33.9	55.5		00.2	6.0	0.0	2.8		4			
					Surface	1.0	0.3	182	22.7	22.7	8.1	8.1	28.5	28.5	96.7	96.5	7.1		6.0		3			
					Gundee	1.0	0.3	180	22.7	22.7	8.1	0.1	28.5	20.0	96.3	00.0	7.1	7.0	6.3		2			
IM1	Cloudy	Rough	17:35	6.6	Middle	3.3	0.3	194	22.5	22.5	8.0	8.0	27.0	26.9	93.3	93.4	6.9		5.7	6.2	3	4	818368	806464
	o.ouuy	. toug		0.0	madio	3.3	0.3	190	22.5	22.0	8.0	0.0	26.8	20.0	93.4	00.1	6.9		5.6	0.2	4		0.0000	000101
					Bottom	5.6	0.3	190	22.5	22.6	8.0	8.0	26.2	26.0	93.5	93.5	7.0	7.0	6.8		5			
					Bottom	5.6	0.3	194	22.6	22.0	8.0	0.0	25.9	20.0	93.5	00.0	7.0		6.7		5			
					Surface	1.0	0.3	193	22.5	22.5	8.0	8.0	26.8	26.7	94.0	93.9	7.0		5.1		6			
						1.0	0.3	192	22.5		8.0		26.7		93.8		7.0	7.0	5.3		7			
IM2	Cloudy	Rough	17:30	7.0	Middle	3.5	0.2	191	22.5	22.5	8.0	8.0	26.6	26.5	93.8	93.9	7.0		5.9	6.9	7	7	819163	806255
	,					3.5	0.2	185	22.5		8.0		26.4		94.0		7.0		5.8		7	-		
					Bottom	6.0	0.3	180	22.6	22.6	8.0	8.0	23.8	23.6	95.4	95.6	7.2	7.2	9.7		8			
					=	6.0	0.3	181	22.6		8.0		23.4		95.8		7.2		9.6		7			
					Surface	1.0	0.2	173	22.9	22.9	8.0	8.0	26.9	26.9	93.4	93.4	6.9		0.9		3			
						1.0	0.2	167	22.9	-	8.0		26.9		93.4		6.9	6.9	0.9		4			
IM7	Cloudy	Rough	17:08	7.8	Middle	3.9	0.2	174	22.8	22.8	8.0	8.0	26.7	26.7	93.3	93.3	6.9		1.2	1.6	4	4	821331	806834
	,	- 3				3.9	0.2	179	22.8		8.0		26.7		93.3		6.9		1.4		4			
					Bottom	6.8	0.2	193	22.7	22.7	8.0	8.0	26.6	26.5	92.6	92.6	6.9	6.9	2.6		5			
						6.8	0.2	194	22.7		8.0		26.5		92.6		6.9		2.7		5			

DA: Depth-Averaged

Water Quality Monitoring Results on 27 April 23 during Mid-Ebb Tide

Water Qua	10, 11.0	ering rece			ZI April Z3	during wid-																		
Monitoring	Weather	Sea	Sampling	Water			Current Speed	Current	Water Te	emperature (°C)		рН	Salir	nity (ppt)	DO S	aturation (%)	Disso Oxy		Turbidity	(NTU)	Suspende (mg/		Coordinate	Coordinate
Station	Condition	Condition	Time	Depth (m)	Sampling Dep	th (m)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value		Value	DA	Value	DA	Value	DA	HK Grid (Northing)	HK Grid (Easting)
						1.0	0.3	99	23.7		8.2		30.6		91.7		6.5		2.9		5			
					Surface	1.0	0.4	97	23.7	23.7	8.2	8.2	30.6	30.6	91.7	91.7	6.5		2.9	1	6			
	01 1	5 .	40.00			4.9	0.3	120	23.7		8.1		31.6		85.8	05.0	6.1	6.3	4.7	1	4			
IM10	Cloudy	Rough	16:23	9.8	Middle	4.9	0.3	115	23.7	23.7	8.1	8.1	31.7	31.7	85.8	85.8	6.1		4.7	4.7	4	4	822252	809835
					5	8.8	0.3	86	23.7		8.1		32.3		83.7		5.9		6.3	1	2			
					Bottom	8.8	0.3	79	23.7	23.7	8.1	8.1	32.3	32.3	83.7	83.7	5.9	5.9	6.3	1	2			
					Cuntaga	1.0	0.3	82	23.8	22.0	8.2	0.0	30.6	20.0	92.2	00.0	6.5		1.4		4			
					Surface	1.0	0.4	75	23.7	23.8	8.2	8.2	30.6	30.6	92.1	92.2	6.5	6.5	1.4	1	4			
IM11	Cloudy	Dough	16:34	8.8	Middle	4.4	0.3	87	23.7	23.7	8.2	8.2	30.7	30.7	91.1	91.1	6.5	6.5	3.2	3.1	4	3	821511	810550
IIVI I I	Cloudy	Rough	10.34	0.0	iviluale	4.4	0.4	83	23.7	23.7	8.2	0.2	30.7	30.7	91.0	91.1	6.5		3.2	3.1	3	3	021311	610330
					Bottom	7.8	0.4	87	23.7	23.7	8.2	0.2	31.5	31.5	88.1	88.1	6.2	6.2	4.6	1	3			
					DOLLOTTI	7.8	0.4	84	23.7	23.7	8.2	8.2	31.5	31.3	88.1	00.1	6.2	0.2	4.7		2			
					Surface	1.0	0.4	88	23.6	23.6	8.2	8.2	30.7	30.7	92.1	92.1	6.5		1.9		3			
					Surface	1.0	0.4	83	23.6	23.6	8.2	0.2	30.7	30.7	92.0	92.1	6.5	6.4	2.0		2			
IM12	Cloudy	Dough	16:47	7.9	Middle	4.0	0.4	101	23.7	23.7	8.2	8.2	31.4	31.4	88.3	88.3	6.2	0.4	2.8	3.5	4	3	821178	811542
IIVI I Z	Cloudy	Rough	10.47	7.9	iviluale	4.0	0.4	95	23.7	23.7	8.2	0.2	31.4	31.4	88.3	00.3	6.3		2.9	3.3	3	3	021170	011342
					Bottom	6.9	0.4	111	23.7	23.7	8.1	8.1	31.7	31.7	86.2	86.2	6.1	6.1	5.8		4			
					BOILOITI	6.9	0.3	106	23.7	23.7	8.1	0.1	31.7	31.7	86.2	00.2	6.1	0.1	5.7		3			
					Surface	1.0	0.1	89	23.9	23.9	8.2	8.2	30.9	30.9	89.9	89.9	6.4		2.0		5			
					Surface	1.0	0.0	84	23.9	23.9	8.2	0.2	30.9	30.9	89.9	05.5	6.4	6.4	2.0		4			
SR1A	Cloudy	Moderate	17:29	5.3	Middle	2.7	0.1	67	-	_	-		-		-	_	-	0.4	-	3.2	-	4	819974	812655
OKIA	Cloudy	Woderate	17.23	3.5	Wildlie	2.7	0.1	62	-		-		-		-		-		-	5.2	-	7	013374	012033
					Bottom	4.3	-	69	23.8	23.8	8.2	8.2	31.4	31.4	89.1	89.1	6.3	6.3	4.4		3			
					Dollo	4.3	0.1	62	23.8	20.0	8.2	O.E	31.4	0	89.1	00	6.3	0.0	4.4		4			
					Surface	1.0	0.4	61	23.7	23.7	8.2	8.2	30.3	30.3	94.5	94.5	6.7		1.9		2			
						1.0	0.4	67	23.7	20	8.2	0.2	30.3	00.0	94.5	0	6.7	6.7	2.0		3			
SR2	Cloudy	Rough	17:50	4.6	Middle	-	0.4	64	-	_	-	_	-	_	-	_	-	0.7	-	2.3	-	3	821442	814145
	,					-	0.4	67	-		-		-		-		-		-		-	-		
					Bottom	3.6	0.3	48	23.5	23.5	8.2	8.2	32.8	32.8	88.4	88.5	6.2	6.2	2.7		3			
						3.6	0.3	48	23.5		8.2		32.9		88.5		6.2		2.7		4			
					Surface	1.0	0.3	172	22.9	22.9	8.0	8.0	26.5	26.5	91.7	91.7	6.8		0.8	1	2			
						1.0	0.3	172	22.9		8.0		26.5		91.6		6.8	6.8	0.8		2			
SR3	Cloudy	Rough	17:02	9.1	Middle	4.6	0.3	153	22.7	22.7	8.0	8.0	26.5	26.5	90.2	90.2	6.7		3.4	3.0	4	3	822142	807550
	,	Ü				4.6	0.4	158	22.6		8.0		26.5		90.1		6.7		3.7	1	4			
					Bottom	8.1	0.4	179	22.6	22.6	8.0	8.0	26.5	26.4	89.9	89.9	6.7	6.7	4.7		4			
						8.1	0.4	185	22.6		8.0		26.3		89.9		6.7		4.7		4			
				1	Surface	1.0	0.0	58	22.6	22.6	8.0	8.0	27.8	27.8	92.9 92.9	92.9	6.8		5.6		2			
						1.0	0.1	63	22.6				27.8					6.8	5.6	_	3			
SR4A	Cloudy	Rough	18:22	9.1	Middle	4.6 4.6	0.1	57	22.5	22.5	8.0	8.0	27.6	27.6	92.0 92.0	92.0	6.8		6.9	6.5	3	3	817172	807800
		_					0.1	59	22.5				27.5						6.9					
					Bottom	8.1 8.1	0.1	93 88	22.5 22.5	22.5	8.0	8.0	26.8	26.7	92.3 92.4	92.4	6.9 6.9	6.9	7.1 6.9	-	5 4			
				1																1				
				1	Surface	1.0	-	-	23.7	23.7	8.2	8.2	30.4	30.4	93.3	93.3	6.6		4.8	-	5 4			
				1		1.0	-	-	23.7		8.2	1	30.4				6.6	6.6	4.8	-				
SR8	Cloudy	Moderate	16:59	5.4	Middle	-	-		-	-	-		-	-	-	-	-		-	5.7	-	5	820410	811631
				1		4.4	-		23.6			1				1			6.5	1	6			
				1	Bottom	4.4	-	-	23.6	23.6	8.2	8.2	31.4	31.4	89.1 89.1	89.1	6.3	6.3	6.5	1	6			
			1	I		4.4			23.0		0.2	ı	J1.4		09. I		0.3		0.0		Ü			

Water Quality Monitoring Results on 27 April 23 during Mid-Flood Tide

Monitoring	Weather	Sea	Sampling	Water	Sampling Dep	th (m)	Current Speed	Current	Water T	emperature (°C)		рН	Salir	nity (ppt)	DO S	Saturation (%)	Disso Oxy		Turbidity	/(NTU)	Suspende (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Запріпід Бер	ar (m)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.1	50	22.5	22.5	8.0	8.0	27.7	27.7	96.8	96.7	7.1		1.9		4			
					Odriace	1.0	0.1	54	22.5	22.0	8.0	0.0	27.7	21.1	96.6	30.7	7.1	7.0	2.0		3			
C1	Cloudy	Rough	05:29	8.3	Middle	4.2	0.1	66	22.5	22.5	8.0	8.0	27.3	27.2	93.2 93.1	93.2	6.9	7.0	3.3	4.3	2	3	815632	804253
O1	Cloudy	Rough	03.23	0.5	Wildale	4.2	0.1	68	22.5	22.0	8.0	0.0	27.2	21.2		33.2	6.9		3.3	4.5	3	3	013032	004233
					Bottom	7.3	0.0	38	22.5	22.5	8.0	8.0	26.3	26.2	94.6 94.8	94.7	7.0	7.1	7.8		2			
					Bottom	7.3	0.0	32	22.5	22.0	8.0	0.0	26.0	20.2		04.7	7.1	7.1	7.5		3			
					Surface	1.0	0.1	183	22.7	22.7	8.0	8.0	25.8	25.8	94.4 94.3	94.4	7.0		0.5		3			
					Curiaco	1.0	0.2	178	22.7	ZZ.7	8.0	0.0	25.7	20.0		04.4	7.0	6.9	0.5		4			
C2	Cloudy	Rough	06:56	12.3	Middle	6.2	0.1	190	22.6	22.6	8.0	8.0	25.3	25.2	89.7	89.7	6.7	0.0	10.6	7.2	3	3	825659	806940
02	o.ouu,	. toug	00.00	12.0	maaio	6.2	0.1	184	22.6	22.0	8.0	0.0	25.2	20.2	89.7	00	6.7		10.9		2	Ü	020000	000010
					Bottom	11.3	0.1	196	22.6	22.6	8.0	8.0	24.8	24.7	89.7 89.8	89.8	6.7	6.7	10.7		2			
						11.3	0.1	190	22.6		8.0		24.6				6.7	•	9.9		2			
					Surface	1.0	0.1	267	23.4	23.4	8.1	8.1	32.7	32.8	89.8 89.7	89.8	6.3		1.2		4			
						1.0	0.1	269	23.4		8.1		32.8				6.3	6.2	1.2		4			
C3	Fine	Rough	04:09	9.6	Middle	4.8	0.2	254	23.4	23.4	8.1	8.1	33.4	33.4	85.3	85.3	6.0		2.7	2.4	4	4	822097	817791
		· ·				4.8	0.2	261	23.4		8.1		33.4		85.3		6.0		2.7	4	4			
					Bottom	8.6	0.1	265	23.4	23.4	8.1	8.1	33.9	33.9	84.4 84.5	84.5	5.9 5.9	5.9	3.4	4	3			
						8.6	0.1	270	23.4										3.4	<del>                                     </del>	3			
					Surface	1.0	0.0	32 24	22.5 22.5	22.5	8.0	8.0	26.4 26.3	26.4	94.0 93.8	93.9	7.0		4.3	_	<u>4</u> 5			
						3.2	0.0	34	22.5		_						6.9	7.0	4.5 5.2	4				
IM1	Cloudy	Rough	05:52	6.4	Middle	3.2	0.1	34	22.5	22.5	8.0	8.0	26.8 26.8	26.8	92.7 92.8	92.8	6.9		5.0	5.1	3	4	818329	806475
						5.4	0.0	51	22.5		8.0		24.8				7.0		5.7	-	2			
					Bottom	5.4	0.1	49	22.4	22.5	8.0	8.0	24.5	24.6	93.2 96.2	94.7	7.2	7.1	5.8	-	3			
						1.0	0.0	18	22.5		8.0		28.0		94.5		7.0		3.2		4			
					Surface	1.0	0.0	11	22.5	22.5	8.0	8.0	28.0	28.0	94.1	94.3	6.9		3.6	-	5			
						3.5	0.0	19	22.5		8.0		27.8				6.9	6.9	4.5	1	3			
IM2	Cloudy	Rough	05:58	6.9	Middle	3.5	0.1	20	22.5	22.5	8.0	8.0	27.8	27.8	93.2 93.1	93.2	6.9		4.7	4.5	4	3	819205	806227
						5.9	0.0	13	22.5		8.0		27.7				6.9		5.6		2			
					Bottom	5.9	0.1	10	22.5	22.5	8.0	8.0	27.6	27.6	92.9 92.9	92.9	6.9	6.9	5.6		2			
					0.7	1.0	0.1	13	22.9		8.0		26.0		93.1		6.9		0.8		2			
					Surface	1.0	0.1	13	22.9	22.9	8.0	8.0	25.9	26.0	93.0	93.1	6.9		0.8	1	2			
18.47	Claudi	Davish	00:04	7.0	Middle	3.9	0.0	18	22.6	22.6	8.0	0.0	26.3	20.2	91.3	04.2	6.8	6.9	2.8	2.5	4	2	004000	000047
IM7	Cloudy	Rough	06:21	7.8	Middle	3.9	0.0	25	22.6	22.6	8.0	8.0	26.2	26.2	91.3 91.2	91.3	6.8	1	2.9	2.5	3	3	821329	806847
					Bottom	6.8	0.0	16	22.6	22.6	8.0	8.0	25.4	25.2	91.0 91.1	91.1	6.8	6.8	3.8	1	4			
					DOLLOITI	6.8	0.0	10	22.6	22.6	8.0	0.0	25.1	23.2	91.1	91.1	6.8	0.6	3.8		3			

DA: Depth-Averaged

Water Quality Monitoring Results on 27 April 23 during Mid-Flood Tide

water Quai	ity wont	orning inesu	ito on		27 April 23	auring Mia-		ue																
Monitoring	Weather	Sea	Sampling	Water	Sampling Dept	h (m)	Current Speed	Current	Water Te	emperature (°C)		pН	Salini	ty (ppt)		aturation (%)	Disso Oxyg		Turbidity	(NTU)	Suspende (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)	(Easting)
					Surface	1.0	0.0	350	23.7	23.7	8.1	8.1	31.2	31.2	90.5	90.5	6.4		1.1		3			
					Surface	1.0	0.1	352	23.7	23.7	8.1	0.1	31.2	31.2	90.5	90.5	6.4	6.4	1.1		3			
IM10	Fine	Rough	05:46	8.4	Middle	4.2	-	333	23.7	23.7	8.1	8.1	31.2	31.2	89.7	89.7	6.3	0.4	4.2	3.7	3	3	822263	809825
IIVITO	FILLE	Rough	03.46	0.4	Middle	4.2	0.0	333	23.7	23.1	8.1	0.1	31.2	31.2	89.6	09.7	6.3		4.3	3.7	3	3	022203	009023
					Bottom	7.4	0.0	343	23.7	23.7	8.1	8.1	31.6	31.6	86.1	86.1	6.1	6.1	5.8		3			
					Dottom	7.4	0.1	350	23.7	25.7	8.1	0.1	31.7	31.0	86.1	00.1	6.1	0.1	5.8		4			
					Surface	1.0	0.1	307	23.7	23.7	8.1	8.1	31.3	31.3	88.4	88.3	6.3		1.2		<2			
					Gunade	1.0	0.1	313	23.7	20.7	8.1	0.1	31.3	01.0	88.2	00.0	6.2	6.2	1.2		<2			
IM11	Fine	Rough	05:31	7.2	Middle	3.6	0.1	324	23.7	23.7	8.1	8.1	31.7	31.8	86.0	85.9	6.1	0.2	1.3	1.4	3	3	821513	810525
	1 1110	rtougn	00.01	/	Wildelie	3.6	0.0	318	23.7	20.7	8.1	0.1	31.8	01.0	85.7	00.0	6.1		1.4		2	O	021010	010020
					Bottom	6.2	0.0	324	23.6	23.6	8.1	8.1	32.6	32.6	84.3	84.3	5.9	5.9	1.8		3			
					Bottom	6.2	0.0	318	23.6	20.0	8.1	0	32.6	02.0	84.3	00	5.9	0.0	1.8		4			
					Surface	1.0	0.0	296	23.8	23.8	8.1	8.1	30.9	30.9	88.4	88.4	6.3		1.1		2			
						1.0	0.0	290	23.8		8.1		30.9		88.4		6.3	6.2	1.0		3			
IM12	Fine	Rough	05:22	7.1	Middle	3.6	0.0	277	23.8	23.8	8.1	8.1	31.1	31.1	86.5	86.5	6.1		3.2	2.4	3	3	821172	811533
						3.6	0.0	281	23.8		8.1		31.1	*	86.5		6.1		3.2		3	-		
					Bottom	6.1	0.0	273	23.7	23.7	8.1	8.1	32.2	32.2	83.2	83.2	5.9	5.9	2.8		3			
						6.1	0.0	271	23.7	_	8.1		32.2		83.2		5.9		2.8		3			
					Surface	1.0	0.0	299	23.7	23.7	8.1	8.1	30.0	30.0	88.8	88.8	6.3		4.2		4			
						1.0	0.0	296	23.7		8.1		30.1		88.8		6.3	6.3	4.2		4			
SR1A	Fine	Moderate	04:39	4.4	Middle	2.2	0.1	279	-	-	-	-	-	-	-	-	-		-	5.0	-	4	819980	812654
						2.2	0.0	285	-		-		-		-		-		-		-			
					Bottom	3.4	0.0	312 305	23.7	23.7	8.1	8.1	30.9	30.9	87.5 87.6	87.6	6.2	6.2	5.8 5.8		3			
	] 			l I		1.0	0.0	36	23.5	l	8.1						6.4		1.1		3			l I
					Surface	1.0	0.0	29	23.5	23.5	8.1	8.1	32.4 32.4	32.4	90.5	90.5	6.4		1.1		4			
						-	-	36	-		-		-		-		-	6.4	-		-			
SR2	Fine	Moderate	04:26	4.2	Middle	-	0.0	37	<del>                                     </del>	-	<del>-</del>	-		-	<del>-</del>	-				3.0		3	821462	814146
						3.2	0.0	28	23.5		8.1		32.9		87.6		6.2		4.8		3			
					Bottom	3.2	0.0	32	23.5	23.5	8.1	8.1	32.9	32.9	87.6	87.6	6.2	6.2	4.8		2			
						1.0	0.1	129	22.8		8.0	<u> </u>	25.4		91.5		6.8		1.0		2			
					Surface	1.0	0.1	134	22.8	22.8	8.0	8.0	25.4	25.4	91.4	91.5	6.8		1.1		2			
						4.2	0.1	135	22.7		8.0		25.1		91.3		6.8	6.8	2.7		2			
SR3	Cloudy	Rough	06:28	8.4	Middle	4.2	0.0	142	22.7	22.7	8.0	8.0	25.1	25.1	91.3	91.3	6.8		2.7	2.6	3	2	822151	807580
					5	7.4	0.0	143	22.7		8.0		24.8		91.4		6.8		3.9		3			
					Bottom	7.4	0.0	139	22.7	22.7	8.0	8.0	24.6	24.7	91.5	91.5	6.9	6.9	4.0		2			
					Curfoss	1.0	0.0	245	22.4	20.5	7.9	7.0	27.8	27.0	93.5	02.4	6.9		2.4		3			
					Surface	1.0	0.0	243	22.5	22.5	7.9	7.9	27.8	27.8	93.2	93.4	6.9	6.8	2.6		2			
SR4A	Cloudy	Moderate	05:04	9.5	Middle	4.8	-	258	22.5	22.5	7.9	7.9	29.9	29.9	90.4	90.4	6.6	0.0	4.1	3.5	2	2	817176	807801
SK4A	Cioudy	wouerate	05.04	9.5	Middle	4.8	0.1	260	22.5	22.3	7.9	1.9	29.9	29.9	90.4	90.4	6.6		4.1	3.3	2	2	01/1/0	007001
					Bottom	8.5	0.0	255	22.5	22.5	7.9	7.9	29.8	29.8	90.8	90.9	6.6	6.6	4.0		2			
	<u> </u>				Dottom	8.5	0.1	252	22.5	22.0	7.9	7.3	29.8	20.0	90.9	55.5	6.6	0.0	4.0		2			
		· · · · · · · · · · · · · · · · · · ·			Surface	1.0	-	-	23.7	23.7	8.1	8.1	31.1	31.1	89.1	89.1	6.3		3.2		2			
						1.0	-	-	23.7	20	8.1	J	31.1	• • • • • • • • • • • • • • • • • • • •	89.1		6.3	6.3	3.2		2			
SR8	Fine	Moderate	05:11	4.9	Middle	-	-	-	-	-	-			-	-		-	0.0	-	5.4	-	3	820412	811605
						-	-	-	-		-		-		-		-		-	1	-	-		
					Bottom	3.9	-	-	23.6	23.6	8.1	8.1	32.4	32.4	85.7	85.7	6.0	6.0	7.5		5			
						3.9	-	-	23.6		8.1		32.4	-	85.7		6.0		7.6		4			

Water Quality Monitoring Results on 29 April 23 during Mid-Ebb Tide

water Qua	ity Monit	oring Resu	ILS UII		29 April 23	auring Mia-	EDD HIGH	<del>-</del>																
Monitoring	Weather	Sea	Sampling	Water	Complia - Desi	h ()	Current Speed	Current	Water Te	emperature (°C)	pН		Salin	ity (ppt)		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 A	verage	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	HK Grid (Northing)	HK Grid (Easting)
					0	1.0	0.4	200	23.7	00.7	8.0	0.0	28.3	00.4	115.8	445.0	8.3		2.8		2			
					Surface	1.0	0.4	199	23.6	23.7	8.0	8.0	28.5	28.4	115.7	115.8	8.3	0.4	3.0	i	2			
C1	Cloudy	Moderate	20:23	8.4	Middle	4.2	0.4	223	23.2	23.2	8.0	8.0	29.4	29.4	109.9	108.5	7.9	8.1	7.0	5.4	3	3	815617	804269
CI	Cloudy	Woderate	20.23	0.4	Middle	4.2	0.3	222	23.2	23.2	8.0	6.0	29.4	29.4	107.1	106.5	7.7		7.0	5.4	2	3	013017	004209
					Bottom	7.4	0.4	198	23.2	23.2	8.0	8.0	29.3	29.2	101.9	101.9	7.4	7.4	6.7		3			
					Bottom	7.4	0.4	196	23.2	23.2	8.0	0.0	29.2	25.2	101.9	101.9	7.4	7.4	6.0		4			
					Surface	1.0	0.2	172	24.2	24.2	7.9	7.9	23.0	22.9	108.2	107.9	8.0		2.0		4			
					Gundee	1.0	0.2	176	24.2	24.2	7.9	7.0	22.9	22.0	107.5	107.0	7.9	7.4	2.2		4			
C2	Cloudy	Moderate	19:01	11.8	Middle	5.9	0.2	183	23.0	23.0	7.9	7.9	28.8	28.9	95.4	95.4	6.9	7	3.2	3.2	3	3	825662	806952
	,					5.9	0.2	182	23.0		7.9				95.3	***	6.9		3.4		4			
					Bottom	10.8	0.2	183	23.0	23.0	7.9	7.9	29.0 28.9	28.9	90.4	90.7	6.6	6.6	4.0	l	2			
						10.8	0.2	177	23.0		7.9				91.0		6.6		4.3		2			
					Surface	1.0	0.3	67	24.6	24.6	8.2	8.2	30.7	30.7	107.3	107.3	7.5		2.3	ł	4			
						1.0 4.9	0.3	71 76	24.6 24.0		8.2 8.2				107.2 97.9		7.5 6.8	7.2	2.3 4.5	ł	3			
C3	Fine	Rough	20:48	9.8	Middle	4.9	0.2	70	24.0	24.0	8.2	8.2	32.6 32.6	32.6	97.9	97.9	6.8		4.6	4.2	2	3	822114	817819
						8.8	0.2	68	23.8		0.2				92.3		6.4		5.7	ł	2			
					Bottom	8.8	0.3	63	23.8	23.8	8.2	8.2	33.4 33.3	33.3	92.3	92.3	6.4	6.4	5.8	ł	2			
						1.0	0.2	187	24.2		8.0		26.2		119.1		8.6		2.3		3			
					Surface	1.0	0.2	188	24.3	24.3	8.0	8.0	26.2	26.2	119.0	119.1	8.6		2.3	i	2			
15.44	Olevertee		00.00	0.0	NAC-JUIL-	3.3	0.2	189	23.3	23.3	8.0	0.0		29.2	113.1	113.2	8.2	8.4	3.8		2		040000	000400
IM1	Cloudy	Moderate	20:06	6.6	Middle	3.3	0.2	188	23.3	23.3	8.0	8.0	29.2 29.2	29.2	113.3	113.2	8.2		4.0	3.6	3	2	818366	806480
					Bottom	5.6	0.2	200	23.2	23.2	8.0	8.0	28.8	28.8	108.6	108.7	7.9	7.9	4.6	1	2			
					BOILOITI	5.6	0.2	206	23.2	23.2	8.0	6.0	28.7	20.0	108.8	100.7	7.9	7.9	4.7		2			
					Surface	1.0	0.3	209	24.8	24.8	8.0	8.0	26.2 26.2	26.2	123.5	123.6	8.8		1.4		4			
					Gundee	1.0	0.3	209	24.8	24.0	8.0	0.0		20.2	123.6	120.0	8.8	8.7	1.4		2			
IM2	Cloudy	Moderate	20:00	7.0	Middle	3.5	0.3	182	23.7	23.7	8.0	8.0	28.8	28.8	119.4	119.4	8.6	0.7	2.3	3.2	3	3	819198	806248
	,					3.5	0.3	174	23.7		8.0				119.4		8.6		2.3		2			
					Bottom	6.0	0.2	177	23.2	23.2	8.0	8.0	29.3	29.3	103.3	103.3	7.5	7.5	5.8		2			
						6.0	0.2	179	23.2		8.0		29.2		103.3		7.5		5.8		3			
					Surface	1.0	0.2	181	24.7	24.7	8.0	8.0	22.2	22.1	112.5	112.4	8.2		2.4		2			
						1.0	0.2	175	24.7		8.0		22.1		112.3		8.2	7.7	2.5		2			
IM7	Cloudy	Moderate	19:35	8.2	Middle	4.1	0.2	180	23.3	23.3	8.0	8.0	28.7	28.7	100.0 99.6	99.8	7.2	}	3.8	3.4	3	3	821359	806844
						4.1 7.2	0.2	172 208	23.3 23.3		8.0		28.7				7.2		3.9 4.0		3			
					Bottom	7.2	0.2	208	23.3	23.3	8.0	8.0	28.7	28.7	97.2 97.4	97.3	7.0	7.1	3.9	l	3			
DA: Donth Avor	<u> </u>		l		<u> </u>	1.2	0.2	207	23.3		8.0		20.0		97.4		7.1		3.9		3			l

DA: Depth-Averaged

Water Quality Monitoring Results on 29 April 23 during Mid-Ebb Tide

water Quar	ncy monic	ornig ittoot	110 011		za Aprili za	during wid-		•																
Monitoring	Weather	Sea	Sampling	Water			Current Speed	Current	Water Te	emperature (°C)	ŗ	рН	Salin	ity (ppt)		aturation (%)	Disso		Turbidity	(NTU)	Suspende (mg/		Coordinate	Coordinate
Station	Condition	Condition	Time	Depth (m)	Sampling Dep	th (m)	(m/s)	Direction	Value	Average	Value	Average	Value	Average		Average	Value	DA	Value	DA	Value	DA	HK Grid (Northing)	HK Grid (Easting)
			1	1		1.0	0.1	125	25.0		8.2		26.8		107.4		7.6		2.7	l	5		1	
					Surface	1.0	0.2	127	25.0	25.0	8.2	8.2	26.8	26.8	107.5	107.5	7.6		2.8	1	4			
						4.4	0.2	108	24.7		8.2		28.2		104.1		7.4	7.5	3.4	1	4			
IM10	Fine	Rough	19:02	8.8	Middle	4.4	0.2	108	24.7	24.7	8.2	8.2	28.2	28.2	104.1	104.1	7.4		3.5	2.8	3	4	822251	809836
						7.8	0.2	88	24.5		8.2		28.9		99.5		7.0		2.2	1	3			
					Bottom	7.8	0.2	88	24.5	24.5	8.2	8.2	29.1	29.0	99.4	99.5	7.0	7.0	2.3	1	2			
						1.0	0.3	106	24.6		8.2		29.0		100.8		7.1		2.2		4			
					Surface	1.0	0.3	98	24.6	24.6	8.2	8.2	29.0	29.0	100.7	100.8	7.1		2.3	1	3			
						4.0	0.2	83	24.2		8.2		31.5		93.2		6.5	6.8	3.7	1	4	_		
IM11	Fine	Rough	19:16	7.9	Middle	4.0	0.2	76	24.2	24.2	8.2	8.2	31.5	31.5	93.2	93.2	6.5		3.8	4.2	3	4	821498	810524
						6.9	0.3	92	24.1		8.2		31.9		92.2		6.5		6.4	1	4			
					Bottom	6.9	0.3	89	24.1	24.1	8.2	8.2	31.9	31.9	92.3	92.3	6.5	6.5	6.5	1	4			
					0 /	1.0	0.3	90	24.6	0.4.0	8.2		28.4		101.8	404.0	7.2		1.8		4			
					Surface	1.0	0.3	93	24.6	24.6	8.2	8.2	28.4	28.4	101.8	101.8	7.2		1.8	1	3			
			40.05			3.7	0.4	91	24.4	24.4	8.2		29.8		96.7		6.8	7.0	3.9	1	4			044500
IM12	Fine	Rough	19:25	7.4	Middle	3.7	0.4	86	24.4	24.4	8.2	8.2	29.8	29.8	96.7	96.7	6.8		3.9	4.0	3	3	821185	811508
					5.4	6.4	0.3	118	24.2	24.0	8.2		31.5	04.5	93.5		6.6		6.2	1	3			
					Bottom	6.4	0.3	121	24.2	24.2	8.2	8.2	31.5	31.5	93.5	93.5	6.6	6.6	6.3	Ī	3			
					0 /	1.0	0.0	73	24.3	0.4.0	8.2		31.0		96.5		6.8		2.2		3			
					Surface	1.0	0.0	76	24.3	24.3	8.2	8.2	31.0	31.0	96.5	96.5	6.8		2.2	1	4			
CD4A	Fine	Madazata	20.00	4.4	Middle	2.2	-	61	-		- 1		-		-		-	6.8	-	0.7	-	-	040000	040054
SR1A	Fine	Moderate	20:09	4.4	Middle	2.2	0.0	58	-	-	-	-	-	-	-	-	-		-	2.7	-	5	819980	812654
					Bottom	3.4	-	94	24.3	24.3	8.2	0.2	31.7	31.7	94.2	94.2	6.6	6.6	3.3	1	6			
					DOLLOTT	3.4	0.0	90	24.3	24.3	8.2	8.2	31.7	31.7	94.2	94.2	6.6	6.6	3.4		5			
					Surface	1.0	0.4	37	24.5	24.5	8.2	8.2	29.2	29.2	101.4	101.5	7.2		2.7		3			
					Surface	1.0	0.4	30	24.5	24.5	8.2	0.2	29.2	25.2	101.5	101.5	7.2	7.2	2.6		2			
SR2	Fine	Moderate	20:28	4.7	Middle	-	0.4	27	-		-		-	_	-		-	1.2	-	3.3	-	3	821465	814156
SINZ	1 1116	Woderate	20.20	4.7	Middle	-	0.4	29	-	_	-		-	_	-		-		-	3.3	-	3	021403	014130
					Bottom	3.7	0.3	57	24.3	24.3	8.2	8.2	31.0	31.0	97.5	97.5	6.8	6.8	3.9		3			
					Dottom	3.7	0.4	61	24.3	24.5	8.2	0.2	31.0	31.0	97.5	37.5	6.8	0.0	3.9		3			
					Surface	1.0	0.2	170	24.6	24.6	8.0	8.0	22.7	22.7	112.6	112.5	8.2		2.0		3			
					Gunade	1.0	0.2	167	24.6	24.0	8.0	0.0	22.7	22.1	112.4	112.0	8.2	7.9	2.1		4			
SR3	Cloudy	Moderate	19:26	8.9	Middle	4.5	0.3	180	23.4	23.4	8.0	8.0	28.3	28.3	104.0	104.0	7.5		3.1	2.8	2	3	822132	807551
0.10	Cioudy	moderate	10.20	0.0	madio	4.5	0.3	186	23.4	20. 1	8.0	0.0	28.3	20.0	104.0		7.5		3.1		2	Ü	022.02	00.00.
					Bottom	7.9	0.3	140	23.3	23.3	8.0	8.0	28.7	28.7	96.9	96.9	7.0	7.0	3.2		<2			
						7.9	0.3	138	23.3		8.0		28.7		96.9		7.0		3.2		<2			
					Surface	1.0	0.0	343	24.3	24.3	8.0	8.0	27.2	27.2	113.2	113.2	8.1		3.3	4	2			
						1.0	0.0	346	24.3	-	8.0		27.3		113.1		8.1	7.9	3.4	4	2			
SR4A	Cloudy	Moderate	20:42	9.0	Middle	4.5	0.0	333	23.6	23.6	8.0	8.0	28.9	28.9	105.4	105.4	7.6		4.1	3.7	<2	2	817193	807828
	,					4.5	-	333	23.6		8.0		28.9		105.4		7.6		4.1	4	<2			
					Bottom	8.0	0.0	7	23.5	23.5	8.0	8.0	28.9	28.9	104.9	104.8	7.6	7.6	3.6	4	<2			
			1			8.0	0.0	2	23.5		8.0		28.9		104.7		7.5		3.7	<u> </u>	<2			
					Surface	1.0	-	-	24.6	24.6	8.2	8.2	28.3	28.3	102.7	102.7	7.3		1.8	4	2			
						1.0	-	-	24.6		8.2		28.4		102.6		7.3	7.3	1.8	-	2			
SR8	Fine	Moderate	19:35	4.9	Middle	-	-	-	-	-		-	-	-	-	-	-		-	2.0	-	2	820405	811607
						-	-	-	- 24.2		-		- 24.2		- 00.5		-		-	-	-			
					Bottom	3.9	-	-	24.2	24.2	8.2	8.2	31.3	31.3	96.5 96.5	96.5	6.8	6.8	2.2	-	3			
A: Donth Avor					1	3.9	-	-	24.2		8.2		31.3		96.5		6.8		2.3		2			]

Water Quality Monitoring Results on 29 April 23 during Mid-Flood Tide

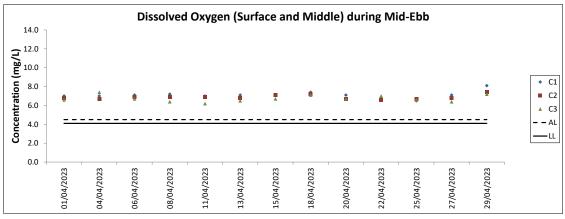
Water Quar	ity worm	oring Resu	iito oii		29 April 23	auring Mia-	rioda II	ue																
Monitoring	Weather	Sea	Sampling	Water	Sampling Depti	h (m)	Current Speed	Current	Water Te	emperature (°C)	1	рН	Salin	ity (ppt)		aturation %)	Disso Oxy		Turbidity	y(NTU)	Suspende (mg		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling Depti	n (m)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Ourton	1.0	0.0	62	23.7	00.7	8.0	0.0	27.2	27.2	110.0	440.0	8.0		2.3		3			
					Surface	1.0	0.0	68	23.6	23.7	8.0	8.0	27.2	21.2	109.9	110.0	8.0		2.3		2			
04	Claudu	Madavata	07.40	0.5	Middle	4.3	0.1	62	23.2	22.2	8.0	0.0	29.3	20.2	101.0	404.0	7.3	7.7	6.8		2	0	045040	004044
C1	Cloudy	Moderate	07:40	8.5	Middle	4.3	0.1	61	23.2	23.2	8.0	8.0	29.2	29.2	101.0	101.0	7.3		7.1	5.1	2	2	815610	804241
					Dellana	7.5	0.1	34	23.2	23.2	7.9	7.0	28.9	28.9	101.0	101.0	7.3	7.3	6.0		2			
					Bottom	7.5	0.1	33	23.2	23.2	7.9 7.9	7.9	28.8	28.9	101.0	101.0	7.3	7.3	6.1		2			
					Ourton	1.0	0.1	191	23.8	23.8	8.0	0.0	23.0	00.4	111.6	111.0	8.3		1.8		2			
					Surface	1.0	0.2	194	23.7	23.8	8.0	8.0	23.3	23.1	110.3	111.0	8.2	7.6	1.8		2			
C2	Cloudy	Moderate	09:32	11.6	Middle	5.8	0.2	186	23.1	23.1	7.9	7.9	28.0	28.0	95.4	95.4	7.0	7.6	2.7	2.6	2	3	825699	806943
C2	Cloudy	Moderate	09:32	11.6	ivildale	5.8	0.2	188	23.1	23.1	7.9	7.9	28.0	28.0	95.4	95.4	7.0		2.7	2.6	3	3	825699	806943
					Bottom	10.6	0.1	169	23.0	23.0	7.9	7.9	28.3	28.3	89.6	89.5	6.5	6.5	3.4		3			
					Bottom	10.6	0.1	162	22.9	23.0	7.9	7.9	28.3	20.3	89.4	69.5	6.5	6.5	3.5		3			
					Surface	1.0	0.1	173	24.1	24.1	8.2	8.2	32.2	32.2	100.4	100.4	7.0		1.7		<2			
					Surface	1.0	0.1	166	24.1	24.1	8.2	0.2	32.2	32.2	100.4	100.4	7.0	6.8	1.7		<2			
СЗ	Cloudy	Moderate	07:19	10.7	Middle	5.4	0.0	176	23.9	23.9	8.2	8.2	33.2	33.2	93.3	93.3	6.5	0.0	1.9	1.7	2	2	822125	817791
00	Oloudy	Woderate	07.10	10.7	Middle	5.4	0.0	169	23.9	20.0	8.2	0.2	33.2	00.2	93.3	00.0	6.5		2.0		2	-	022120	017701
					Bottom	9.7	0.0	189	23.7	23.7	8.2 8.2	8.2	33.5	33.5	88.5 88.5	88.5	6.2	6.2	1.6		2			
						9.7	0.0	196	23.7	20.1		0.2	33.5	00.0		00.0	6.2	0.2	1.6		2			
					Surface	1.0	0.1	54	24.1	24.1	8.0	8.0	26.5	26.5	115.1	115.1	8.3		1.5		<2			
						1.0	0.1	54	24.0		8.0		26.5		115.0		8.3	8.1	1.6		<2			
IM1	Cloudy	Moderate	08:05	6.5	Middle	3.3	0.1	62	23.4	23.4	8.0	8.0	29.3	29.4	108.8	108.7	7.8		3.4	3.1	3	3	818345	806441
	,					3.3	0.1	64	23.3		8.0		29.4		108.5		7.8		3.5	_	2			
					Bottom	5.5	0.0	32	23.2	23.2	8.0	8.0	29.6 29.6	29.6	105.0	105.1	7.6	7.6	4.3	_	3			
						5.5	0.0	31	23.2		8.0				105.1		7.6		4.2	-	3			
					Surface	1.0	0.0	358	23.6 23.5	23.6	8.0	8.0	28.8	28.8	114.7	114.6	8.3		2.4	_	3			
						3.4	0.0	3 342	23.5						114.4		8.2	7.9	2.5 3.2	4	2			
IM2	Cloudy	Moderate	08:11	6.8	Middle	3.4	0.0	335	23.3	23.3	8.0	8.0	29.5 29.5	29.5	106.0 105.8	105.9	7.6 7.6		3.2	3.1	2	2	819168	806238
						5.8	0.0	346	23.3				29.5				7.6		3.5	4	2			
					Bottom	5.8	0.0	352	23.3	23.3	8.0	8.0	29.3	29.3	105.5 105.5	105.5	7.6	7.6	3.5	-	2			
					1	1.0	0.0	57	23.9		8.0		24.3		103.3		8.0		1.5		3			
					Surface	1.0	0.0	56	23.9	23.9	8.0	8.0	24.2	24.2	108.6	108.7	8.0		1.5	1	4			
						4.1	0.0	42	23.3		8.0		28.8		101.2			7.7	3.4	1	2			
IM7	Cloudy	Moderate	08:50	8.1	Middle	4.1	0.0	37	23.3	23.3	8.0	8.0	28.8	28.8	100.9	101.1	7.3		3.3	2.8	2	3	821337	806815
						7.1	0.1	44	23.2		8.0		28.8		99.4		7.2		3.5	1	2			
					Bottom	7.1	0.0	39	23.2	23.2	8.0	8.0	28.7	28.7	99.3	99.4	7.2	7.2	3.6	1	3			
· Donth Avor			1		1	7.1	0.0	<b>ა</b> ყ	23.2		0.0		20.1		99.3		1.2		ა.ნ	<u> </u>	J			1

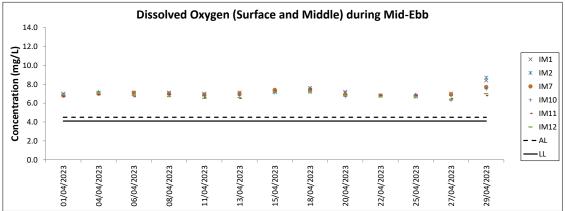
DA: Depth-Averaged

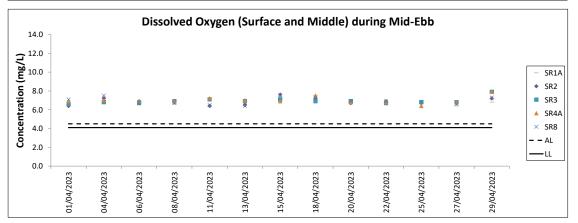
Water Quality Monitoring Results on 29 April 23 during Mid-Flood Tide

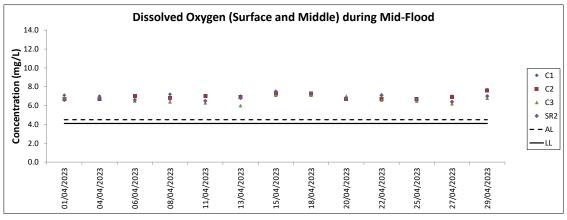
Water Quar	,	orning recou	110 011		29 April 23	during wid-		<u> </u>																
Monitoring	Weather	Sea	Sampling	Water			Current Speed	Current	Water Te	emperature (°C)		рН	Salin	ity (ppt)		aturation %)	Disso		Turbidity	(NTU)	Suspende (mg/		Coordinate	Coordinate
Station	Condition	Condition	Time	Depth (m)	Sampling Dep	h (m)	(m/s)	Direction	Value	Average	Value	Average	Value	Average		Average	Value	DA	Value	DA	Value	DA	HK Grid (Northing)	HK Grid (Easting)
						1.0	0.1	94	24.9		8.2		26.3		103.5		7.4		1.2		2			
					Surface	1.0	0.2	96	24.9	24.9	8.2	8.2	26.3	26.3	103.6	103.6	7.4		1.3	1	3			
	<u>.</u>					4.7	0.1	104	24.8		8.2		28.0		100.9		7.1	7.3	3.6	1	3	_		
IM10	Cloudy	Moderate	09:07	9.3	Middle	4.7	0.1	104	24.8	24.8	8.2	8.2	28.0	28.0	100.9	100.9	7.1		3.6	3.2	2	3	822250	809837
					_	8.3	0.1	82	24.5		8.2		29.8		98.2		6.9		4.9	1	4			
					Bottom	8.3	0.2	85	24.5	24.5	8.2	8.2	29.8	29.8	98.3	98.3	6.9	6.9	4.9	1	2			
						1.0	0.1	77	24.7		8.2		28.1		102.5		7.3		2.8		3			
					Surface	1.0	0.1	78	24.7	24.7	8.2	8.2	28.1	28.1	102.4	102.5	7.3		2.9	1	2			
	<u>.</u>					4.1	0.2	106	24.4		8.2		30.0		96.3		6.8	7.1	3.4	1	3	_		
IM11	Cloudy	Moderate	08:49	8.2	Middle	4.1	0.1	102	24.4	24.4	8.2	8.2	30.0	30.0	96.3	96.3	6.8		3.5	4.1	2	3	821492	810544
						7.2	0.1	75	24.0		8.2		32.2		89.8		6.3		5.9	1	3			
					Bottom	7.2	0.1	80	24.0	24.0	8.2	8.2	32.2	32.2	89.9	89.9	6.3	6.3	5.9	1	3			
			1			1.0	0.2	87	24.7		8.2		28.3		101.8		7.2		3.5		3			
					Surface	1.0	0.2	79	24.7	24.7	8.2	8.2	28.4	28.3	101.8	101.8	7.2		3.5	1	2			
						4.0	0.1	78	24.3		8.2		30.8		94.2		6.6	6.9	4.7	1	3			
IM12	Cloudy	Moderate	08:37	8.0	Middle	4.0	0.0	82	24.3	24.3	8.2	8.2	30.7	30.8	94.1	94.2	6.6		4.7	4.5	2	2	821159	811519
						7.0	0.0	91	23.9		8.1		32.3		87.0		6.1		5.2	1	2			
					Bottom	7.0	0.1	97	23.9	23.9	8.1	8.1	32.3	32.3	87.0	87.0	6.1	6.1	5.3		2			
			1		1	1.0	0.0	162	23.9		8.2		32.3		89.8		6.3		2.4	1	3			
					Surface	1.0	0.0	163	23.9	23.9	8.2	8.2	32.3	32.3	89.9	89.9	6.3		2.5	1	2			
						2.5	0.0	184	-		- 0.2		-		-		-	6.3	- 2.3	1	-			
SR1A	Cloudy	Calm	07:57	4.9	Middle	2.5	0.0	180	-	-	-	-	-	-	-	-	-		-	2.8	-	3	819975	812665
						3.9	0.0	174	23.9		_		_				6.2		3.1	1	3			
					Bottom	3.9	-	169	23.9	23.9	8.1 8.1	8.1	32.5 32.5	32.5	88.5 88.6	88.6	6.2	6.2	3.1	1	3			
						1.0	0.1	62	24.1		8.2		32.3				7.0		2.8		2			
					Surface	1.0	0.1	66	24.1	24.1	8.2	8.2	32.3	32.3	100.8	100.8	7.0		2.8	1	3			
						1.0	0.1	75	- 24.1		- 0.2		32.3		-		7.0	7.0	-	1	-			
SR2	Cloudy	Moderate	07:42	5.2	Middle				_	-	-	-	-	-	-	-	-		-	3.2	-	3	821472	814144
						4.2	0.1	75 88	24.0		8.2		32.9		96.3		6.7		3.6	4	3			
					Bottom	4.2	0.1	89	24.0	24.0	8.2	8.2	32.9	32.9	96.3	96.3	6.7	6.7	3.5	4	3			
						1.0	0.1	128	24.0				22.7						1.7					
					Surface	1.0	0.1			24.6	7.9 8.0	7.9	22.7	22.7	110.9	110.7	8.1			4	<2			
						4.2	0.1	126 144	24.6 23.3						110.4		8.1 7.2	7.7	1.8 2.3	4	<2 2			
SR3	Cloudy	Moderate	08:58	8.4	Middle	4.2			23.3	23.3	8.0	8.0	28.0	28.0	99.4 99.4	99.4	7.2			2.6	2	2	822123	807564
							0.2	141											2.3	-				
					Bottom	7.4	0.1	130	23.3	23.3	8.0	8.0	28.7	28.7	99.9	99.9	7.2	7.2	3.7	-	3			
						7.4	0.2	127	23.3		8.0		28.7		99.9		7.2		3.6					
					Surface	1.0	0.0	285	23.8	23.8	8.0	8.0	26.9	26.9	108.3	108.3	7.8		1.3		2			
						1.0	0.1	285	23.8		8.0		26.9		108.2		7.8	7.6	1.4		3			
SR4A	Cloudy	Moderate	07:12	8.7	Middle	4.4	0.0	292	23.7	23.7	8.0	8.0	28.9	28.9	101.4	101.3	7.3		3.0	3.0	2	2	817168	807810
						4.4	0.0	287	23.7		8.0		28.9		101.2		7.3		3.2	1	2			
					Bottom	7.7	0.1	294	23.3	23.3	7.9	7.9	29.9	29.9	94.0	94.0	6.8	6.8	4.8	_	2			
						7.7	0.1	294	23.3		7.9		29.9		94.0		6.8		4.3		2			
					Surface	1.0	-	-	24.0	24.0	8.1	8.1	32.2	32.2	92.7	92.7	6.5		4.3	4	3			
						1.0	-	-	24.0		8.1		32.2		92.6		6.5	6.5	4.4	4	2			
SR8	Cloudy	Calm	08:28	5.2	Middle	-	-	-	-	-	-	-	-	-	-	-	-		-	5.6	-	3	820390	811601
	,					-	-	-	-		-		-		-		-		-	4	-			
					Bottom	4.2	-	-	23.9	23.9	8.1	8.1	32.4	32.4	88.7	88.8	6.2	6.2	6.8	1	4			
DA: Donth Avor						4.2	-	-	23.9		8.1		32.4	-	88.9		6.2		6.8		3			

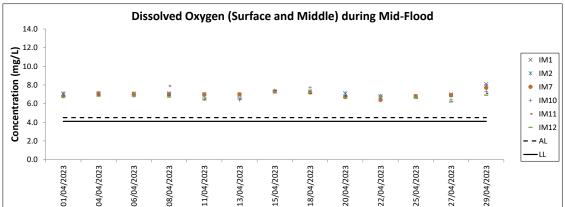
DA: Depth-Averaged

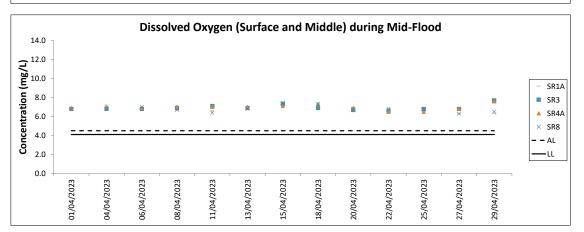


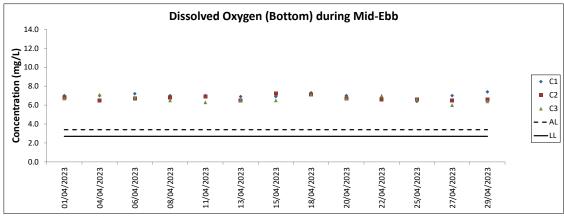


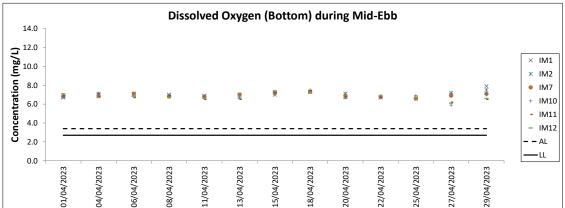


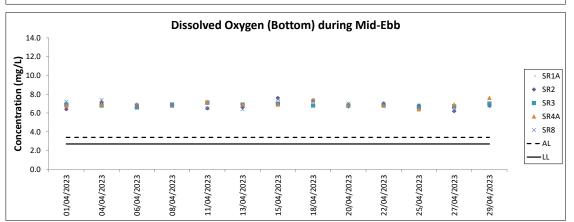


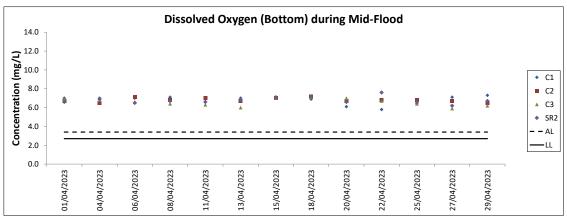


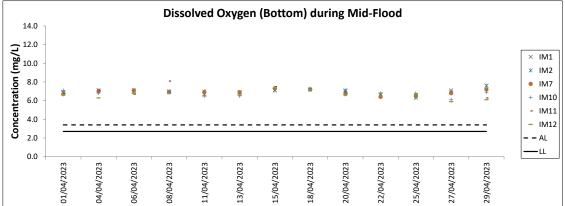


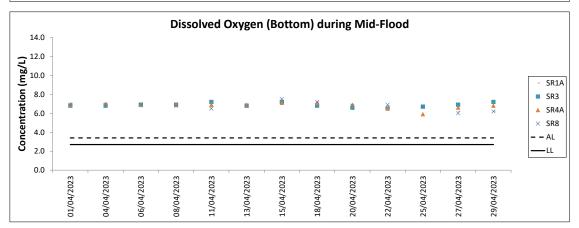


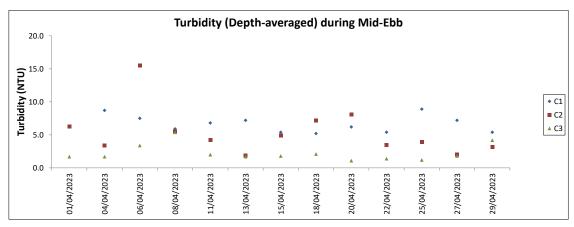


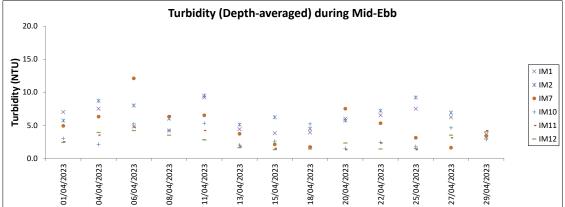


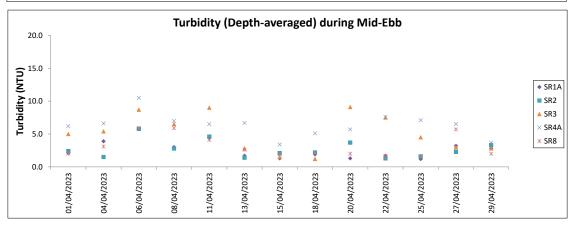


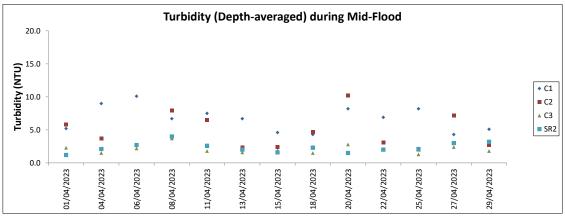


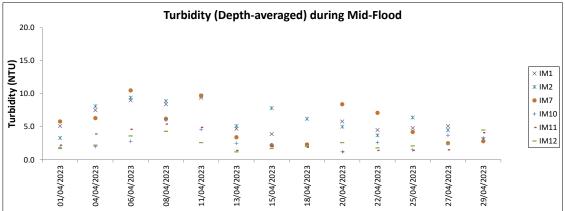


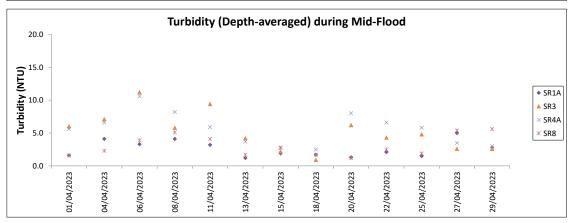


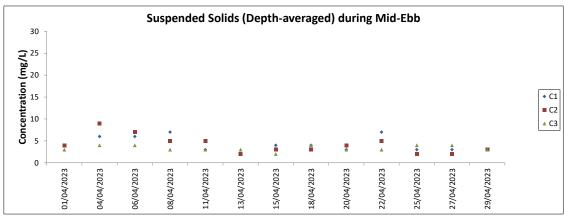


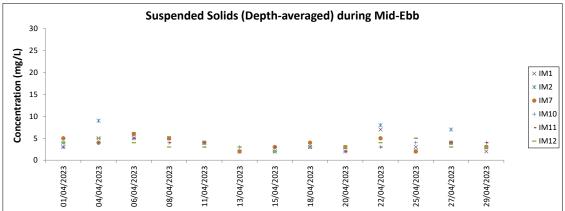


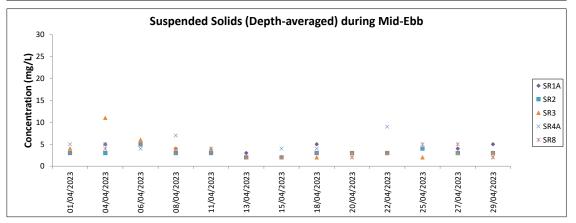


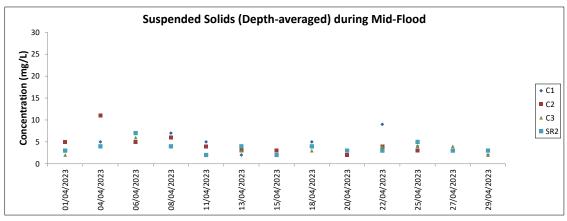


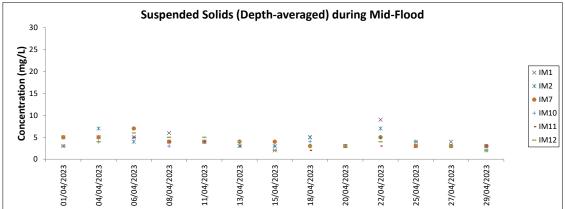


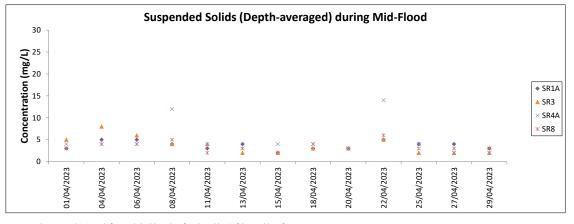












The Action and Limit Level of suspended solids can be referred to Table 4.2 of the monthly EM&A report. Major site activities carried out during the reporting period are summarized in Section 1.4 of the monthly EM&A report. Weather conditions during monitoring are presented in the data tables above. 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. 88 (For April 2023)
<b>Chinese White Dolphin Monitoring Results</b>
Chinese White Dolphin Monitoring Results

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

#### **Survey Effort Data**

DATE	AREA	BEAU	KM SEARCHED	SEASON	VESSEL	TYPE	P/S
07-Feb-23	SWL	1	2.430	WINTER	32166	3RS ET	Р
07-Feb-23	SWL	2	43.158	WINTER	32166	3RS ET	Р
07-Feb-23	SWL	3	8.780	WINTER	32166	3RS ET	Р
07-Feb-23	SWL	2	12.322	WINTER	32166	3RS ET	S
07-Feb-23	SWL	3	3.000	WINTER	32166	3RS ET	S
08-Feb-23	NEL	2	22.760	WINTER	32166	3RS ET	Р
08-Feb-23	NEL	3	14.500	WINTER	32166	3RS ET	Р
08-Feb-23	NEL	2	7.170	WINTER	32166	3RS ET	S
08-Feb-23	NEL	3	2.970	WINTER	32166	3RS ET	S
13-Feb-23	SWL	2	51.784	WINTER	32166	3RS ET	Р
13-Feb-23	SWL	3	1.500	WINTER	32166	3RS ET	Р
13-Feb-23	SWL	2	16.273	WINTER	32166	3RS ET	S
14-Feb-23	NEL	2	26.770	WINTER	32166	3RS ET	Р
14-Feb-23	NEL	3	9.330	WINTER	32166	3RS ET	Р
14-Feb-23	NEL	4	1.180	WINTER	32166	3RS ET	Р
14-Feb-23	NEL	2	8.820	WINTER	32166	3RS ET	S
14-Feb-23	NEL	3	0.800	WINTER	32166	3RS ET	S
16-Feb-23	NWL	2	10.780	WINTER	32166	3RS ET	Р
16-Feb-23	NWL	3	51.368	WINTER	32166	3RS ET	Р
16-Feb-23	NWL	2	3.860	WINTER	32166	3RS ET	S
16-Feb-23	NWL	3	7.940	WINTER	32166	3RS ET	S
20-Feb-23	NWL	2	11.500	WINTER	32166	3RS ET	Р
20-Feb-23	NWL	3	50.750	WINTER	32166	3RS ET	Р
20-Feb-23	NWL	2	4.200	WINTER	32166	3RS ET	S
20-Feb-23	NWL	3	7.850	WINTER	32166	3RS ET	S
21-Feb-23	AW	2	4.700	WINTER	32166	3RS ET	Р
21-Feb-23	WL	2	4.530	WINTER	32166	3RS ET	Р
21-Feb-23	WL	3	12.181	WINTER	32166	3RS ET	Р
21-Feb-23	WL	4	2.220	WINTER	32166	3RS ET	Р
21-Feb-23	WL	5	0.370	WINTER	32166	3RS ET	Р
21-Feb-23	WL	2	5.229	WINTER	32166	3RS ET	S
21-Feb-23	WL	3	1.159	WINTER	32166	3RS ET	S
21-Feb-23	WL	4	3.810	WINTER	32166	3RS ET	S
22-Feb-23	AW	3	3.970	WINTER	32166	3RS ET	Р
22-Feb-23	WL	3	15.367	WINTER	32166	3RS ET	Р
22-Feb-23	WL	4	1.380	WINTER	32166	3RS ET	Р
22-Feb-23	WL	3	7.158	WINTER	32166	3RS ET	S
22-Feb-23	WL	4	2.670	WINTER	32166	3RS ET	S
01-Mar-23	AW	2	4.970	SPRING	32166	3RS ET	Р
01-Mar-23	WL	2	11.695	SPRING	32166	3RS ET	Р
01-Mar-23	WL	2	6.491	SPRING	32166	3RS ET	S
02-Mar-23	AW	2	1.190	SPRING	32166	3RS ET	Р
02-Mar-23	AW	3	3.880	SPRING	32166	3RS ET	Р
02-Mar-23	WL	2	3.848	SPRING	32166	3RS ET	Р
02-Mar-23	WL	3	15.030	SPRING	32166	3RS ET	Р
02-Mar-23	WL	4	1.200	SPRING	32166	3RS ET	Р
02-Mar-23	WL	2	2.520	SPRING	32166	3RS ET	S

DATE	AREA	BEAU	KM SEARCHED	SEASON	VESSEL	TYPE	P/S
02-Mar-23	WL	3	6.430	SPRING	32166	3RS ET	S
02-Mar-23	WL	4	1.030	SPRING	32166	3RS ET	S
03-Mar-23	NWL	2	41.440	SPRING	32166	3RS ET	Р
03-Mar-23	NWL	3	21.770	SPRING	32166	3RS ET	Р
03-Mar-23	NWL	2	11.390	SPRING	32166	3RS ET	S
06-Mar-23	NEL	2	5.820	SPRING	32166	3RS ET	Р
06-Mar-23	NEL	3	31.280	SPRING	32166	3RS ET	Р
06-Mar-23	NEL	2	3.950	SPRING	32166	3RS ET	S
06-Mar-23	NEL	3	5.650	SPRING	32166	3RS ET	S
07-Mar-23	NWL	2	38.700	SPRING	32166	3RS ET	Р
07-Mar-23	NWL	3	23.095	SPRING	32166	3RS ET	Р
07-Mar-23	NWL	2	5.645	SPRING	32166	3RS ET	S
07-Mar-23	NWL	3	4.860	SPRING	32166	3RS ET	S
09-Mar-23	SWL	2	53.106	SPRING	32166	3RS ET	Р
09-Mar-23	SWL	2	15.716	SPRING	32166	3RS ET	S
10-Mar-23	SWL	2	6.340	SPRING	32166	3RS ET	Р
10-Mar-23	SWL	3	36.560	SPRING	32166	3RS ET	Р
10-Mar-23	SWL	4	10.900	SPRING	32166	3RS ET	Р
10-Mar-23	SWL	2	0.800	SPRING	32166	3RS ET	S
10-Mar-23	SWL	3	11.640	SPRING	32166	3RS ET	S
10-Mar-23	SWL	4	4.000	SPRING	32166	3RS ET	S
13-Mar-23	NEL	2	36.470	SPRING	32166	3RS ET	Р
13-Mar-23	NEL	2	10.830	SPRING	32166	3RS ET	S
11-Apr-23	NEL	2	26.630	SPRING	32167	3RS ET	Р
11-Apr-23	NEL	3	10.200	SPRING	32166	3RS ET	Р
11-Apr-23	NEL	2	7.570	SPRING	32166	3RS ET	S
11-Apr-23	NEL	3	2.300	SPRING	32166	3RS ET	S
12-Apr-23	SWL	1	22.368	SPRING	32166	3RS ET	Р
12-Apr-23	SWL	2	30.970	SPRING	32166	3RS ET	Р
12-Apr-23	SWL	1	10.270	SPRING	32166	3RS ET	S
12-Apr-23	SWL	2	5.460	SPRING	32166	3RS ET	S
13-Apr-23	WL	2	10.107	SPRING	32166	3RS ET	Р
13-Apr-23	WL	3	8.141	SPRING	32166	3RS ET	Р
13-Apr-23	WL	2	4.103	SPRING	32166	3RS ET	S
13-Apr-23	WL	3	6.578	SPRING	32166	3RS ET	S
13-Apr-23	AW	3	4.900	SPRING	32166	3RS ET	Р
14-Apr-23	SWL	2	44.965	SPRING	32166	3RS ET	Р
14-Apr-23	SWL	3	9.510	SPRING	32166	3RS ET	Р
14-Apr-23	SWL	2	13.425	SPRING	32166	3RS ET	S
14-Apr-23	SWL	3	2.000	SPRING	32166	3RS ET	S
18-Apr-23	AW	3	4.720	SPRING	32166	3RS ET	Р
18-Apr-23	WL	3	19.170	SPRING	32166	3RS ET	Р
18-Apr-23	WL	3	10.170	SPRING	32166	3RS ET	S
19-Apr-23	NEL	3	25.790	SPRING	32166	3RS ET	Р
19-Apr-23	NEL	3	8.980	SPRING	32166	3RS ET	S
20-Apr-23	NWL	2	61.800	SPRING	32166	3RS ET	Р
20-Apr-23	NWL	2	13.600	SPRING	32166	3RS ET	S
21-Apr-23	NWL	3	41.400	SPRING	32166	3RS ET	Р
		i	i -	1	1		

DATE	AREA	BEAU	KM SEARCHED	SEASON	VESSEL	TYPE	P/S
11-Apr-23	NEL	2	26.630	SPRING	32167	3RS ET	Р
11-Apr-23	NEL	3	10.200	SPRING	32166	3RS ET	Р
11-Apr-23	NEL	2	7.570	SPRING	32166	3RS ET	S
11-Apr-23	NEL	3	2.300	SPRING	32166	3RS ET	S
12-Apr-23	SWL	1	22.368	SPRING	32166	3RS ET	Р
12-Apr-23	SWL	2	30.970	SPRING	32166	3RS ET	Р
12-Apr-23	SWL	1	10.270	SPRING	32166	3RS ET	S
12-Apr-23	SWL	2	5.460	SPRING	32166	3RS ET	S
13-Apr-23	WL	2	10.107	SPRING	32166	3RS ET	Р
13-Apr-23	WL	3	8.141	SPRING	32166	3RS ET	Р
13-Apr-23	WL	2	4.103	SPRING	32166	3RS ET	S
13-Apr-23	WL	3	6.578	SPRING	32166	3RS ET	S
13-Apr-23	AW	3	4.900	SPRING	32166	3RS ET	Р
14-Apr-23	SWL	2	44.965	SPRING	32166	3RS ET	Р
14-Apr-23	SWL	3	9.510	SPRING	32166	3RS ET	Р
14-Apr-23	SWL	2	13.425	SPRING	32166	3RS ET	S
14-Apr-23	SWL	3	2.000	SPRING	32166	3RS ET	S
18-Apr-23	AW	3	4.720	SPRING	32166	3RS ET	Р
18-Apr-23	WL	3	19.170	SPRING	32166	3RS ET	Р
18-Apr-23	WL	3	10.170	SPRING	32166	3RS ET	S
19-Apr-23	NEL	3	25.790	SPRING	32166	3RS ET	Р
19-Apr-23	NEL	3	8.980	SPRING	32166	3RS ET	S
20-Apr-23	NWL	2	61.800	SPRING	32166	3RS ET	Р
20-Apr-23	NWL	2	13.600	SPRING	32166	3RS ET	S
21-Apr-23	NWL	3	41.400	SPRING	32166	3RS ET	Р
21-Apr-23	NWL	3	9.300	SPRING	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
07-Feb-23	1	1109	FP	3	SWL	2	143	ON	3RS ET	22.1557	113.9258	WINTER	NONE	Р
07-Feb-23	2	1200	FP	3	SWL	2	76	ON	3RS ET	22.1520	113.9175	WINTER	NONE	Р
07-Feb-23	3	1209	FP	7	SWL	2	47	ON	3RS ET	22.1418	113.9107	WINTER	NONE	S
07-Feb-23	4	1232	FP	2	SWL	2	64	ON	3RS ET	22.1770	113.9058	WINTER	NONE	Р
07-Feb-23	5	1258	FP	6	SWL	2	39	ON	3RS ET	22.1976	113.8973	WINTER	NONE	Р
07-Feb-23	6	1307	FP	1	SWL	2	380	ON	3RS ET	22.1823	113.8972	WINTER	NONE	Р
13-Feb-23	1	1034	FP	1	SWL	2	14	ON	3RS ET	22.1841	113.9358	WINTER	NONE	Р
13-Feb-23	2	1036	FP	5	SWL	2	10	ON	3RS ET	22.1815	113.9359	WINTER	NONE	Р
13-Feb-23	3	1254	FP	2	SWL	2	74	ON	3RS ET	22.1731	113.8965	WINTER	NONE	Р
13-Feb-23	4	1321	FP	1	SWL	2	109	ON	3RS ET	22.1754	113.8879	WINTER	NONE	Р
13-Feb-23	5	1335	FP	2	SWL	2	60	ON	3RS ET	22.2072	113.8878	WINTER	NONE	Р
13-Feb-23	6	1417	FP	2	SWL	2	17	ON	3RS ET	22.1751	113.8690	WINTER	NONE	Р
16-Feb-23	1	1036	CWD	16	NWL	3	38	ON	3RS ET	22.2750	113.8697	WINTER	NONE	Р
16-Feb-23	2	1151	CWD	2	NWL	3	56	ON	3RS ET	22.3604	113.8777	WINTER	NONE	Р
16-Feb-23	3	1202	CWD	7	NWL	3	87	ON	3RS ET	22.3668	113.8776	WINTER	NONE	Р
16-Feb-23	4	1325	CWD	2	NWL	3	129	ON	3RS ET	22.3496	113.8975	WINTER	NONE	Р
20-Feb-23	1	1118	CWD	2	NWL	3	120	ON	3RS ET	22.3748	113.8775	WINTER	NONE	Р
21-Feb-23	1	1020	CWD	4	WL	3	52	ON	3RS ET	22.2804	113.8611	WINTER	NONE	Р
21-Feb-23	2	1027	CWD	1	WL	3	109	ON	3RS ET	22.2780	113.8581	WINTER	NONE	Р
21-Feb-23	3	1036	CWD	3	WL	3	493	ON	3RS ET	22.2724	113.8478	WINTER	NONE	S
21-Feb-23	4	1126	CWD	2	WL	2	37	ON	3RS ET	22.2319	113.8284	WINTER	NONE	Р
21-Feb-23	5	1206	CWD	1	WL	3	97	ON	3RS ET	22.2055	113.8383	WINTER	NONE	Р
22-Feb-23	1	0941	CWD	3	AW	3	42	ON	3RS ET	22.2947	113.8799	WINTER	NONE	Р
22-Feb-23	2	1031	CWD	3	WL	3	284	ON	3RS ET	22.2693	113.8469	WINTER	NONE	Р
22-Feb-23	3	1050	CWD	3	WL	3	48	ON	3RS ET	22.2599	113.8395	WINTER	NONE	Р
22-Feb-23	4	1125	CWD	2	WL	3	70	ON	3RS ET	22.2443	113.8493	WINTER	NONE	S
22-Feb-23	5	1137	CWD	1	WL	3	217	ON	3RS ET	22.2420	113.8461	WINTER	NONE	Р
22-Feb-23	6	1150	CWD	4	WL	3	313	ON	3RS ET	22.2415	113.8352	WINTER	NONE	Р
22-Feb-23	7	1206	CWD	7	WL	3	270	ON	3RS ET	22.2316	113.8277	WINTER	NONE	Р
22-Feb-23	8	1221	CWD	2	WL	3	29	ON	3RS ET	22.2236	113.8368	WINTER	PURSE SEINER	S
22-Feb-23	9	1236	CWD	3	WL	3	361	ON	3RS ET	22.2230	113.8298	WINTER	NONE	Р
22-Feb-23	10	1308	CWD	4	WL	3	55	ON	3RS ET	22.2054	113.8381	WINTER	NONE	Р

DATE	STG#	TIME	CWD/FP	GP SZ	AREA	BEAU	PSD	EFFORT	TYPE	DEC LAT	DEC LON	SEASON	BOAT ASSOC.	P/S
01-Mar-23	1	1116	CWD	1	AW	2	384	ON	3RS ET	22.3020	113.8820	SPRING	NONE	Р
01-Mar-23	2	1202	CWD	7	WL	2	79	ON	3RS ET	22.2721	113.8461	SPRING	NONE	Р
01-Mar-23	3	1258	CWD	2	WL	2	852	ON	3RS ET	22.2537	113.8347	SPRING	NONE	S
01-Mar-23	4	1315	CWD	6	WL	2	569	ON	3RS ET	22.2422	113.8338	SPRING	NONE	Р
01-Mar-23	5	1343	CWD	7	WL	2	84	ON	3RS ET	22.2280	113.8379	SPRING	NONE	S
01-Mar-23	6	1420	CWD	7	WL	2	249	ON	3RS ET	22.2056	113.8281	SPRING	NONE	Р
01-Mar-23	7	1447	CWD	3	WL	2	345	ON	3RS ET	22.1962	113.8339	SPRING	NONE	Р
02-Mar-23	1	1039	CWD	6	WL	2	116	ON	3RS ET	22.2294	113.8379	SPRING	NONE	S
02-Mar-23	2	1051	CWD	14	WL	2	296	ON	3RS ET	22.2234	113.8338	SPRING	NONE	Р
02-Mar-23	3	1153	CWD	7	WL	3	156	ON	3RS ET	22.1960	113.8395	SPRING	NONE	Р
03-Mar-23	1	1050	CWD	5	NWL	3	167	ON	3RS ET	22.2804	113.8782	SPRING	NONE	Р
07-Mar-23	1	1034	CWD	1	NWL	3	597	ON	3RS ET	22.2792	113.8700	SPRING	NONE	Р
07-Mar-23	2	1140	CWD	1	NWL	2	122	ON	3RS ET	22.4001	113.8778	SPRING	NONE	Р
09-Mar-23	1	1036	CWD	1	SWL	2	701	ON	3RS ET	22.2231	113.9365	SPRING	NONE	Р
09-Mar-23	2	1112	FP	1	SWL	2	138	ON	3RS ET	22.1655	113.9358	SPRING	NONE	Р
09-Mar-23	3	1116	FP	1	SWL	2	21	ON	3RS ET	22.1619	113.9356	SPRING	NONE	Р
09-Mar-23	4	1121	FP	1	SWL	2	8	ON	3RS ET	22.1544	113.9359	SPRING	NONE	Р
09-Mar-23	5	1124	FP	1	SWL	2	6	ON	3RS ET	22.1526	113.9363	SPRING	NONE	Р
09-Mar-23	6	1232	FP	2	SWL	2	252	ON	3RS ET	22.1416	113.9120	SPRING	NONE	S
09-Mar-23	7	1259	FP	1	SWL	2	122	ON	3RS ET	22.1798	113.9040	SPRING	NONE	S
09-Mar-23	8	1345	FP	1	SWL	2	74	ON	3RS ET	22.1521	113.8976	SPRING	NONE	Р
09-Mar-23	9	1513	CWD	5	SWL	2	389	ON	3RS ET	22.1930	113.8593	SPRING	NONE	Р
10-Mar-23	1	1416	FP	2	SWL	2	29	ON	3RS ET	22.1643	113.8681	SPRING	NONE	Р
10-Mar-23	2	1438	CWD	2	SWL	3	211	ON	3RS ET	22.1951	113.8583	SPRING	NONE	Р
12-Apr-23	1	1042	FP	5	SWL	2	366	ON	3RS ET	22.1836	113.9358	SPRING	NONE	Р
12-Apr-23	2	1047	FP	1	SWL	2	20	ON	3RS ET	22.1789	113.9355	SPRING	NONE	Р
12-Apr-23	3	1050	FP	2	SWL	1	205	ON	3RS ET	22.1732	113.9358	SPRING	NONE	Р
12-Apr-23	4	1055	FP	4	SWL	1	95	ON	3RS ET	22.1660	113.9362	SPRING	NONE	Р
12-Apr-23	5	1100	FP	4	SWL	1	47	ON	3RS ET	22.1591	113.9364	SPRING	NONE	Р
12-Apr-23	6	1103	FP	1	SWL	1	78	ON	3RS ET	22.1554	113.9362	SPRING	NONE	Р
12-Apr-23	7	1109	FP	2	SWL	1	149	ON	3RS ET	22.1469	113.9315	SPRING	NONE	S
12-Apr-23	8	1119	FP	1	SWL	1	22	ON	3RS ET	22.1586	113.9276	SPRING	NONE	Р
12-Apr-23	9	1124	FP	4	SWL	1	54	ON	3RS ET	22.1661	113.9276	SPRING	NONE	Р

DATE	STG#	TIME	CWD/FP	GP SZ	AREA	BEAU	PSD	EFFORT	TYPE	DEC LAT	DEC LON	SEASON	BOAT ASSOC.	P/S
12-Apr-23	10	1218	FP	1	SWL	1	157	ON	3RS ET	22.1444	113.9080	SPRING	NONE	Р
12-Apr-23	11	1226	FP	4	SWL	1	205	ON	3RS ET	22.1563	113.9008	SPRING	NONE	S
12-Apr-23	12	1311	FP	3	SWL	1	53	ON	3RS ET	22.1824	113.8971	SPRING	NONE	Р
13-Apr-23	1	1057	CWD	10	WL	3	623	ON	3RS ET	22.2416	113.8409	SPRING	PURSE SEINER	Р
13-Apr-23	2	1127	CWD	9	WL	2	11	ON	3RS ET	22.2324	113.8294	SPRING	PURSE SEINER	Р
13-Apr-23	3	1146	CWD	2	WL	2	268	ON	3RS ET	22.2237	113.8286	SPRING	NONE	Р
13-Apr-23	4	1156	CWD	3	WL	3	11	ON	3RS ET	22.2188	113.8195	SPRING	NONE	S
13-Apr-23	5	1213	CWD	8	WL	3	355	ON	3RS ET	22.2148	113.8322	SPRING	NONE	Р
14-Apr-23	1	1400	FP	1	SWL	2	9	ON	3RS ET	22.1593	113.8730	SPRING	NONE	S
18-Apr-23	1	1049	CWD	7	WL	3	26	ON	3RS ET	22.2459	113.8496	SPRING	NONE	S
18-Apr-23	2	1148	CWD	3	WL	3	296	ON	3RS ET	22.2141	113.8340	SPRING	NONE	Р
18-Apr-23	3	1226	CWD	4	WL	3	282	ON	3RS ET	22.1962	113.8412	SPRING	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 414.427 km of survey effort was collected under Beaufort Sea State 3 or below with favourable visibility; total no. of 8 on-effort sightings and total number of 46 dolphins from on-effort sightings were collected under such condition. Calculation of the encounter rates in April 2023 are shown as below:

Encounter Rate by Number of Dolphin Sightings (STG) in April 2023  $STG = \frac{8}{414.427} \times 100 = 1.93$ 

$$STG = \frac{8}{414427} \times 100 = 1.93$$

Encounter Rate by Number of Dolphins (ANI) in April 2023 
$$ANI = \frac{46}{414.427} \times 100 = 11.10$$

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

A total of 1270.452 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 193 dolphins from on-effort sightings were collected under such condition. Calculation of the running quarterly encounter rates are shown as below:

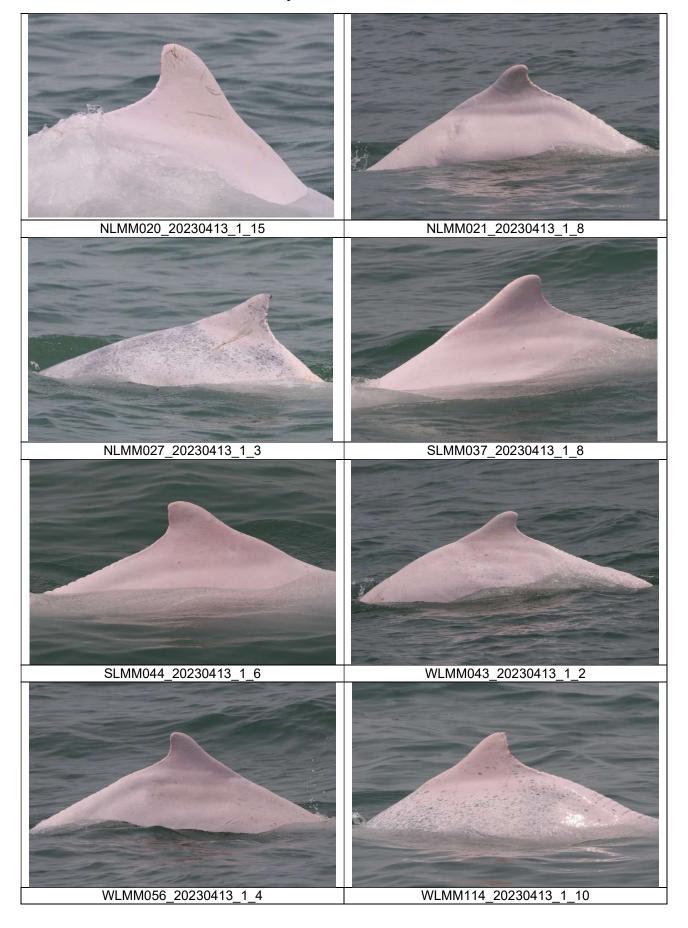
Running Quarterly Encounter Rate by Number of Dolphin Sightings (STG)

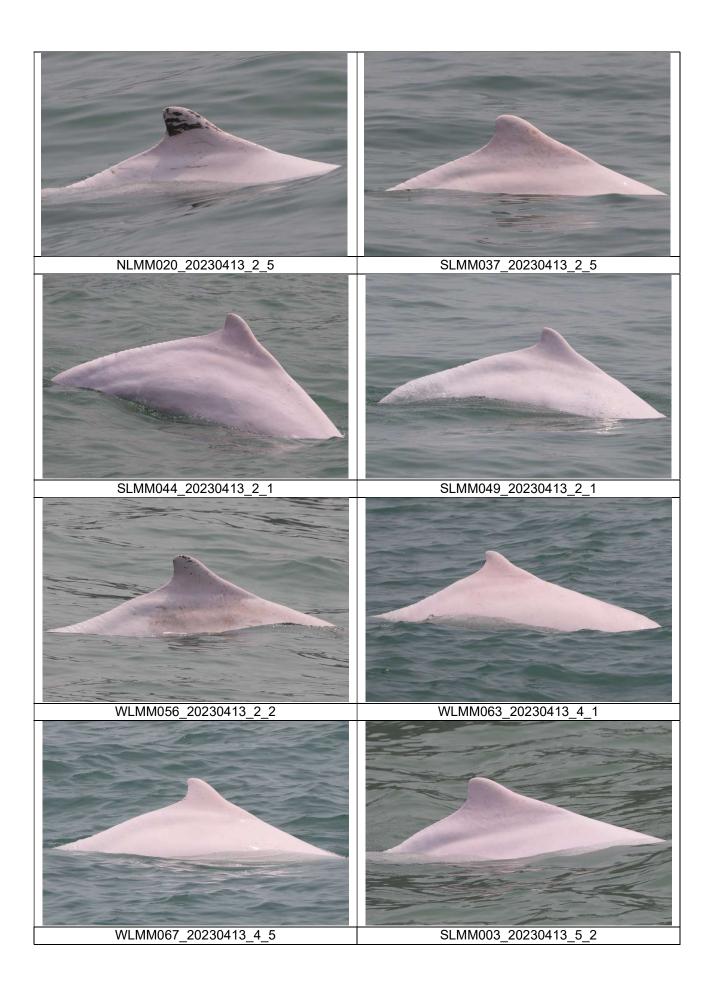
$$STG = \frac{44}{1270.452} \times 100 = 3.46$$

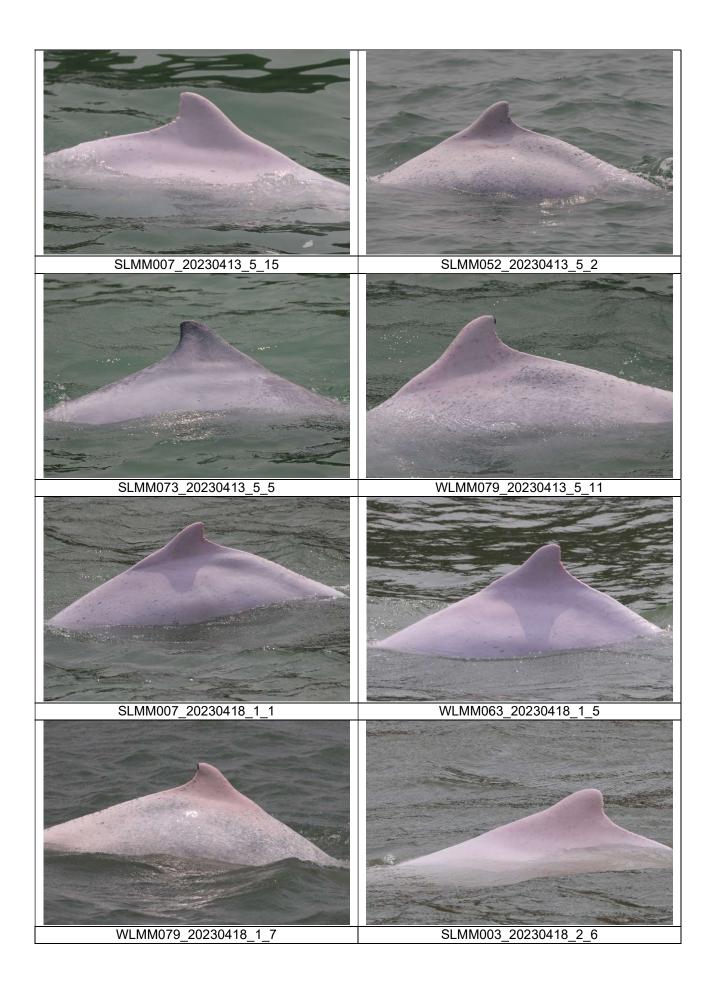
Running Quarterly Encounter Rate by Number of Dolphins (ANI) 
$$ANI = \frac{193}{1270.452} \times 100 = 15.19$$

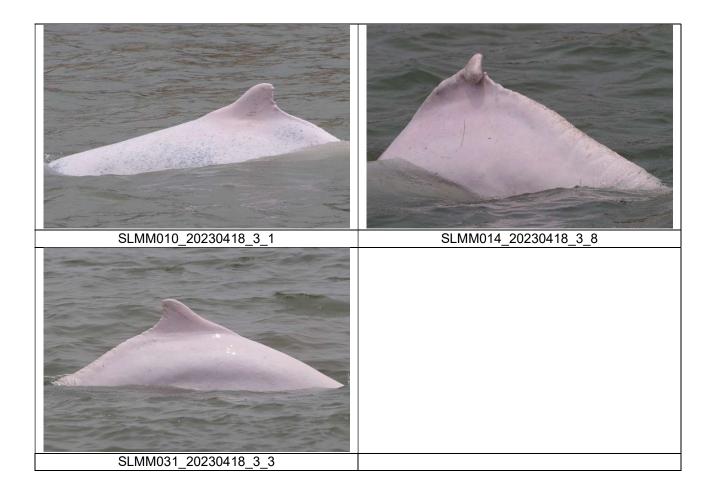
### **CWD Small Vessel Line-transect Survey**

### **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
24/Apr/23	Lung Kwu Chau	8:51	14:51	6:00	2-3	2-3	0	NA
25/Apr/23	Sha Chau	10:45	16:45	6:00	3	4	0	NA

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

## **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	Notification of Construction Work under APCO	Works area of 3206	470044	Receipt acknowledged by EPD on 29 Jul 2021
	Registration as Chemical	Site office of 3206	WPN 5213- 951-Z4035-01	Completion of Registration on 18 Nov 2016
	Waste Producer	Works area of 3206	WPN 5213- 951-Z4035-02	Completion of Registration on 18 Nov 2016
	Construction Noise Permit (General Works)	Works Area of 3206	GW-RS0045- 23	Valid from 30 Jan 2023 to 20 Jul 2023
	Bill Account for disposal	Works area of 3206	A/C 7026398	Approval granted from EPD on 16 Nov 2016
3302	Notification of Construction	Works area of 3302	490404	Receipt acknowledged by EPD on 10 Mar 2023
	Work under APCO	Staging area of 3302	490407	Receipt acknowledged by EPD on 10 Mar 2023
			490408	Receipt acknowledged by EPD on 10 Mar 2023
			490409	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
	WPCO	Works area of 3302	WT00034541- 2019	Valid from 14 Oct 2019 to 31 Oct 2024
	Bill Account for disposal	Works area of 3302	A/C 7032881	Approval granted from EPD on 8 Jan 2019
	Construction Noise Permit	Works area of 3302	GW-RS0841-22	Valid from 20 Oct 2022 to 19 Apr 2023
	(General Works)		GW-RS0887-22	Valid from 3 Nov 2022 to 2 May 2023
			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 Oc 2020
	Registration as Chemical Waste Producer	Works area of 3305	5213-951- A3024-01	Completion of Registration on 13 No 2020

Contract No.	Description	Location	Permit/ Reference No.	Status
	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-RS0965-22	Valid from 1 Dec 2022 to 31 May 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	Notification of Construction Work under APCO	Works area of 3307	489966	Receipt acknowledged by EPD on 28 Feb 2023
	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
	Construction Noise Permit (General Works)	Works area of 3307	GW-RS0066-23	Valid from 6 Feb 2023 to 5 Aug 2023
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 10 Dec 2021
	Registration as Chemical Waste Producer	Works area of 3310	5213-951- C4682-01	Completion of Registration on 21 Dec 2021
	- Toducei	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-RS0281-23	Valid from 06 Apr 2023 to 03 Oct 2023
		Works area of 3310 (Reclamation area)	GW-RS0294-23	Valid from 13 Apr 2023 to 10 Oct 2023
		Tsing Chau Wan	GW-RW0703-22	Valid from 26 Nov 2022 to 25 May 2023
3402	Bill Account for disposal	Works area of 3402	A/C 7032577	Approval granted from EPD on 27 Nov 2018
3403	Notification of Construction	Works area of 3403	485039	Receipt acknowledged by EPD on 06 Oct 2022
	Work under APCO	Works area of 3403 (with Area 17 and Area 15)	475369	Receipt acknowledged by EPD on 28 Dec 2021
	Registration as Chemical Waste Producer	Works area of 3403	WPN 5213-951- S4218-01	Completion of Registration on 9 Jan 2020

		Works area of 3508	WT00037209- 2020	Valid from 28 Jan 2022 to 31 Mar 2026
	Registration as Chemical Waste Producer	Works area of 3508	WPN-5218-951- G2898-01	Completion of Registration on 28 Se 2020
		Works area of 3508 (Area J)	467132	Receipt acknowledged by EPD on 3 May 2021
	Work under APCO		459469	Receipt acknowledged by EPD on 4 Se 2020
3508	Notification of Construction	Works area of 3508	459017	Receipt acknowledged by EPD on 19 Aug 2020
			GW-RS0332-23	Valid from 23 Apr 2023 to 16 Oct 2023
	Construction Noise Permit (Special Case)	Works area of 3408	GW-RS0221-23	Valid from 16 Mar 2023 to 13 Sep 2023 Cancelled on 23 Apr 2023
	Construction Noise Permit (General Works)	Works area of 3408	GW-RS0107-23	Valid from 16 Feb 2023 to 31 Jul 2023
	Bill Account for disposal	Works area of 3408	A/C 7039063	Approval granted from EPD on 2 De 2020
	Discharge License under WPCO	Works area of 3408	WT00038836- 2021	Valid from 27 Sep 2021 to 30 Sep 2026
	Registration as Chemical Waste Producer	Works area of 3408	WPN 5218-951- B2621-01	Completion of Registration on 16 Ju 2021
3408	Notification of Construction Work under APCO	Works area of 3408	461958	Receipt acknowledged by EPD on 1' Nov 2020
	Noise Permit (General Works)	3405	GW 100104 23	Valid Holli 2 Mai 2020 to 27 Aug 2020
	Bill Account for disposal  Construction	Works area of 3405 Works area of	A/C 7036796 GW-RS0154-23	Approval granted from EPD on 20 Ma 2020 Valid from 2 Mar 2023 to 27 Aug 2023
	Discharge License under WPCO	Works area of 3405	WT00037084- 2020	Valid from 17 Mar 2021 to 31 Mar 2026
	Registration as Chemical Waste Producer	Works area of 3405	WPN 5218-951- C4431-01	Completion of Registration on 12 Ma 2020
3405	Notification of Construction Work under APCO	Works area of 3405	484926	Receipt acknowledged by EPD on 3 Sep 2022
3404	Bill Account for disposal	Works area of 3404	A/C 7035158	Approval granted from EPD on 12 Se 2019
	Construction Noise Permit (Special Case)	Works area of 3403	GW-RS0137-23	Valid from 1 Mar 2023 to 31 May 2023
	Construction Noise Permit (General Works)	Works area of 3403	GW-RS0136-23	Valid from 1 Mar 2023 to 31 Aug 2023
	Bill Account for disposal	Works area of 3403	A/C 7035267	Approval granted from EPD on 30 Se 2019
	Discharge License under WPCO	Works area of 3403	WT00035841- 2020	Valid from 5 Jun 2020 to 30 Jun 2025 Approved variation on 9 Jun 2022
Contract No.	Description	Location	Permit/ Reference No.	Status

Contract No.	Description	Location	Permit/ Reference No.	Status
	Discharge License under		WT00037523- 2021	Valid from 24 Aug 2022 to 30 Apr 2026
	WPCO		WT00037225- 2020	Valid from 11 Jan 2022 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-RS1127-22	Valid from 2 Jan 2023 to 27 Jun 2023
	(General Works)	Works area of 3508	GW-RS1133-22	Valid from 6 Jan 2023 to 5 Jun 2023
	Construction Noise Permit	Works area of 3508	GW-RS0229-23	Valid from 24 Mar 2023 to 21 Sep 2023
	(Special Case)	Works area of 3508	GW-RS0034-23	Valid from 22 Jan 2023 to 20 Apr 2023
		Works area of 3508	GW-RS0831-22	Valid from 12 Oct 2022 to 9 Apr 2023
		Works area of 3508	GW-RS0069-23	Valid from 1 Feb 2023 to 1 May 2023
		Works area of 3508	GW-RS0286-23	Valid from 8 Apr 2023 to 30 Jun 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-RS1059-22	Valid from 8 Dec 2022 to 7 May 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	Site office of 3603	5296-951- S4069-01	Completion of Registration on 22 Jan 2018
	Producer	Test Loop Site of 3603	8334-512- S4273-01	Completion of Registration on 17 Sep 2020
	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-RS0922-22	Valid from 24 Nov 2022 to 23 May 2023
3721	Notification of Construction Work under APCO	Works area of 3721	448657	Receipt acknowledged by EPD on 02 Sep 2019
	Registration as Chemical Waste Producer	Works area of 3721	WPN 5218-951- C4412-01	Completion of Registration on 9 Dec 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-RS0048-23	Valid from 30 Jan 2023 to 30 Jun 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-RS1028-22	Valid from 25 Nov 2022 to 22 May 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 (General Works)	Works area of 3801	GW-RS0096-23	Valid from 5 Feb 2023 to 2 Aug 2023
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	Works area of 3802	A/C 7037575	Approval granted from EPD on 15 Jun 2020
	Construction Noise Permit (General Works)	Works area of 3802	GW-RS0253-23	Valid from 30 Mar 2023 to 27 Sep 2023
	(Conordi Tromo)	Works area of 3802 (Existing airport)	GW-RS1061-22	Valid from 5 Dec 2022 to 4 Jun 2023
		Works area of 3802 (Ventilation building)	GW-RS0072-23	Valid from 1 Feb 2023 to 26 Jul 2023
3804	Notification of Construction Work under APCO	Works area of 3804	487452	Receipt acknowledged by EPD on 14 Dec 2022
	Construction Noise Permit	Works area of 3804 (3804/1A)	GW-RS0102-23	Valid from 15 Feb 2023 to 14 Aug 2023
	(General Works)	3004 (3004/17A)	GW-RS0208-23	Valid from 16 Mar 2023 to 14 Sep 2023
	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
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
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/0000443 053	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

Contract No.	Description	Location	Permit/ Reference No.	Status
	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-RS0050-23	Valid from 5 Feb 2023 to 4 Aug 2023
3901B	Notification of Construction Work under APCO	Works area of 3901B	466885	Receipt acknowledged by EPD on 26 Apr 2021
	Air Pollution Control (Furnaces, Ovens and Chimneys) (Installation and Alteration) Regulations	Works area of 3901B	EP/RS/0000438 488	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-RS0070-23	Valid from 5 Feb 2023 to 4 Aug 2023
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
	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-RS0181-23	Valid from 20 Mar 2023 to 19 Sep 2023

# 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	58	2	2			

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

### Data of SkyPier HSF Movements to/from Macau (between 1 and 30 April 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)
4-Apr	12:00	8S912	YFT	Arrival	11	-	-
4-Apr	12:47	8S193	YFT	Departure	11.8	-	-
5-Apr	12:10	8S912	YFT	Arrival	13.3	-	-
5-Apr	12:41	8S193	YFT	Departure	12.8	-	-
7-Apr	12:02	8S912	YFT	Arrival	11	-	-
7-Apr	12:45	8S193	YFT	Departure	11.7	-	-
11-Apr	11:56	8S912	YFT	Arrival	12.9	-	-
11-Apr	12:41	8S193	YFT	Departure	12.1	-	-
12-Apr	11:58	8S912	YFT	Arrival	12.4	-	-
12-Apr	12:41	8S193	YFT	Departure	12.4	-	-
14-Apr	12:01	8S912	YFT	Arrival	11.4	-	-
14-Apr	12:44	8S193	YFT	Departure	11.8	-	-
18-Apr	12:03	8S912	YFT	Arrival	12.6	-	-
18-Apr	12:42	8S193	YFT	Departure	11.2	-	-
19-Apr	11:59	8S912	YFT	Arrival	13.1	-	-
19-Apr	12:40	8S193	YFT	Departure	12.2	-	-
21-Apr	11:59	8S912	YFT	Arrival	12.6	-	-
21-Apr	12:41	8S193	YFT	Departure	12.2	-	-
25-Apr	11:58	8S912	YFT	Arrival	12.4	-	-
25-Apr	12:51	8S193	YFT	Departure	11.3	-	-
26-Apr	12:04	8S912	YFT	Arrival	12.3	-	-
26-Apr	12:48	8S193	YFT	Departure	12.5	-	-
28-Apr	12:05	8S912	YFT	Arrival	12.3	-	-
28-Apr	12:48	8S193	YFT	Departure	11.9	-	-

### Follow-up on instantaneous speeding

Referring to the data of SkyPier HSF movements in April 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.