

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

Construction Phase Monthly EM&A Report No. 81 (For September 2022)

October 2022

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# This Monthly EM&A Report No. 81 has been reviewed and certified by

## the Environmental Team Leader (ETL) in accordance with

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

Certified by:

Terence Kong

Environmental Team Leader (ETL) Mott MacDonald Hong Kong Limited

Date 14 October 2022



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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

14 October 2022

Dear Sir,

Contract No. 3102 **3RS Independent Environmental Checker Consultancy Services** 

## Submission of Monthly EM&A Report No. 81 (September 2022)

Reference is made to the Environmental Team's submission of the Monthly EM&A Report No. 81 under Condition 3.5 of the Environmental Permit No. EP-489/2014 certified by the ET Leader on 14 October 2022.

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 9376.

Yours faithfully, AECOM Asia Co. Ltd.

Jackel Law

Independent Environmental Checker

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# **Abbreviations**

3RS	Three-Runway System
AAHK	Airport Authority Hong Kong
AECOM	AECOM Asia Company Limited
AFCD	Agriculture, Fisheries and Conservation Department
AIS	Automatic Information System
ANI	Encounter Rate of Number of Dolphins
APM	Automated People Mover
AW	Airport West
BHS	Baggage Handling System
C&D	Construction and Demolition
CAP	Contamination Assessment Plan
CAR	Contamination Assessment Report
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 81<sup>st</sup> Construction Phase Monthly EM&A Report for the Project which summarises the monitoring results and audit findings of the EM&A programme during the reporting period from 1 to 30 September 2022.

## **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 works, 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	30
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**



Impact Air Quality Monitoring conducted by ET at Tin Sum Village House



Dump Truck with Mechanical Truck Cover checked by ET



On-site Checking of Monitoring Record of Wastewater Treatment Facility maintained by Contractor

## **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**

- Seawall construction; and
- Backfilling works.

## **Airfield Works**

## Contract 3302 Eastern Vehicular Tunnel Advance Works

- Construction of tunnel structure;
- Pipe and drainage diversion works;
- Excavation and lateral support systems installation; and
- Stockpiling.

## Contract 3303 Third Runway and Associated Works

- Architectural, builder's and finishing works;
- Footing and utilities work;
- Pavement work; and
- Cable laying and ducting works.

## Contract 3305 Airfield Ground Lighting System

- Enhanced vehicular warning light hardware installation; and
- Software development.

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

Equipment installation.

## **Contract 3307 Fire Training Facility**

- Architectural, builder's and finishing works;
- Drainage and utilities works; and
- Building construction.

## 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;
- Excavation works;
- Seawall construction;
- Construction of stormwater drainage;
- Construction of walls and slabs;
- Installation of pipe piles; and
- Backfilling works.

## **Third Runway Concourse:**

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

- Roofing installation and steel frame erection of covered walkway; and
- Alterations and additions works.

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

System maintenance.

## Contract 3405 Third Runway Concourse Foundation and Substructure Works

- Bored piling;
- Structure works;
- Excavation; and
- Road formation.

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

- Reinforced concrete works:
- Site setup works; and
- Excavation.

## **Terminal 2 Expansion:**

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

- Excavation and footing construction;
- Viaduct pier and temporary road construction;
- Pump station and electrical station construction;
- Demolition 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**

Laying and connection of water mains.

## **Contract 3723 Construction Support Facilities**

Clearance works.

## **Airport Support Infrastructure:**

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

- Ventilation ducts construction;
- Demolition works; and
- U-channel and tunnel construction.

## Contract 3802 APM and BHS Tunnels and Related Works

- Demolition works:
- Excavation and lateral supports; and
- Tunnel construction.

## **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 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^		$\checkmark$	No breach of Action Level was recorded.	Nil
Complaint Received		V	No construction activities-related complaint was received during the reporting period.	Nil
Notification of any summons and status of prosecutions		V	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:
^ 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 81<sup>st</sup> Construction Phase Monthly EM&A Report for the Project which summarises the key findings of the EM&A programme during the reporting period from 1 to 30 September 2022.

## 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
		Ken Wong	2828 5817
Independent Environmental Checker (IEC) (AECOM Asia Company Limited)	Independent Environmental Checker	Jackel Law	3922 9376
	Deputy Independent Environmental Checker	Roy Man	3922 9141
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 Works	Project Manager	Dickey Yau	5699 4503
(China Road and Bridge Corporation)	Environmental Officer	Dennis Ho	5645 0563
Contract 3303 Third Runway and Associated	Project Manager	Andrew Keung	6277 6628
Works (SAPR Joint Venture)	Environmental Officer	Gabriel Wong	6114 9590
Contract 3305 Airfield Ground Lighting System	Project Manager	Allam Al-Turk	2944 9725
(ADB Safegate Hong Kong Limited)	Environmental Officer	Calvin Sze	9205 9277
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	Albert Chan	9700 1083
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	Project Manager	Francis Choi	9423 3469
Substructure Works (China Road and Bridge Corporation – Bachy Soletanche Group Limited – LT Sambo Co., Ltd. Joint Venture)	Environmental Officer	Jacky Lai	9028 8975
Contract 3408 Third Runway Concourse and Apron Works (Beijing Urban	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	Project Director	Richard Ellis	6201 5637
(Gammon Engineering & Construction Company Limited)	Environmental Officer	Fanny Law	6184 4650

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

Party	Position	Name	Telephone
Contract 3601 New Automated People Mover 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	Project Manager	Kunihiro Tatecho	9755 0351
Works (Niigata Transys Co., Ltd.)	Environmental Officer	Y M Tong	5316 9801
Contract 3603 3RS Baggage Handling System	Project Manager	K C Ho	9272 9626
(VISH Consortium)	Environmental Officer	Richard Ng	9802 9577
onstruction Support (F	Facilities):		
Party	Position	Name	Telephone
Contract 3721 Construction Support Infrastructure Works (China State Construction	Site Agent	Thomas Lui	9011 5340
Engineering (Hong Kong) Ltd.)	Environmental Officer	John Mak	6273 8703
Contract 3723 Eastern Support Area – Construction Support	Deputy Project Director	Philip Kong	9337 8700
Facilities (Tapbo Construction Company Limited and Konwo Modular House Ltd. Joint Venture.)	Environmental Officer	Eddie Suen	6338 8862
Contract 3728 Minor Site Works (Shun Yuen Construction	Contract Manager	C K Liu	9194 8739
Company Limited)	Environmental Officer	Dan Leung	6856 5899
Contract 3733 Emergency Repair Service	Project Manager	Michael Kan	9206 0550
(Wing Hing Construction Co., Ltd.)	SHE Manager	Mike Leung	6625 2550
airport Support Infrastr	ucture:		
Party	Position	Name	Telephone
Contract 3801 APM and BHS Tunnels on Existing Airport Island	Project Manager	Kingsley Chiang	9424 8437
(China State Construction Engineering (Hong Kong) Ltd.)	Environmental Officer	Eunice Kwok	9243 1331
Contract 3802 APM and BHS Tunnels and Related Works	Project Director	John Adams	6111 6989
(Gammon Construction Limited)	Environmental Officer	Phoebe Ng	9869 1105

<b>Construction Support (Services / Licences):</b>
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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 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 ground improvement works, 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
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.

Parameters	EM&A Requirements	Status
Initial Intensive Deep Cement Mixing (DCM) Water Quality Monitoring	At least four weeks	The Initial Intensive DCM Monitoring Report was submitted and approved by EPD in accordance with the Detailed Plan on DCM.
Regular DCM Water Quality Monitoring	Three times per week until completion of DCM works.	Due to the completion of all marine-based DCM works within April 2022, regular DCM monitoring was ceased at all monitoring stations starting from 28 April 2022 and would be resumed if there are marine-based DCM works in the coming future.
Sewerage and Sewage Tr	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 has been started since June 2021.
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 details of the routine H₂S monitoring system will be prepared and submitted to EPD at least one year before commencement of operation of 3RS.
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.
Marine Ecology		
Pre-Construction Phase Coral Dive Survey	Prior to marine construction works	The Coral Translocation Plan was submitted and approved by EPD under EP Condition 2.12.
Coral Translocation	-	The coral translocation was completed.
Post-Translocation Coral Monitoring	As per an enhanced monitoring programme based on the Coral Translocation Plan	The post-translocation monitoring programme according to the Coral Translocation Plan was completed in April 2018.
Chinese White Dolphins (	CWD)	
Baseline Monitoring	6 months of baseline surveys before the commencement of land formation related construction works.  Vessel line transect surveys: Two full surveys per month;  Land-based theodolite tracking surveys:	Baseline CWD results were reported in the CWD Baseline Monitoring Report and submitted to EPD in accordance with EP Condition 3.4.
	Two days per month at the Sha Chau station and two days per month at the Lung Kwu Chau station; and	

Parameters	EM&A Requirements	Status
	Passive Acoustic Monitoring (PAM): For the whole duration of baseline period.	
Impact Monitoring	Vessel line transect surveys: Two full surveys per month; Land-based theodolite tracking surveys: One day per month at the Sha Chau station and one day per month at the Lung Kwu Chau station; and PAM: For the whole duration for land formation related construction works.	On-going
Landscape & Visual		
Landscape & Visual Plan	At least 3 months before the commencement of construction works on the formed land of the Project.	The Landscape & Visual Plan was submitted and approved by EPD under EP Condition 2.18
Baseline Monitoring	One-off survey within the Project site boundary prior to commencement of any construction works	The baseline landscape & visual monitoring result was reported in Baseline Monitoring Report and submitted to EPD under EP Condition 3.4.
Impact Monitoring	Weekly	On-going
<b>Environmental Auditing</b>		
Regular site inspection	Weekly	On-going
Marine Mammal Watching Plan (MMWP) implementation measures	Monitor and check	On-going
Dolphin Exclusion Zone (DEZ) Plan implementation measures	Monitor and check	On-going
SkyPier High Speed Ferries (HSF) implementation measures	Monitor and check	On-going
Construction and Associated Vessels Implementation measures	Monitor and check	On-going
Silt Curtain Deployment Plan implementation measures	Monitor and check	On-going
Spill Response Plan implementation measures	Monitor and check	On-going
Complaint Hotline and Email channel	Construction phase	On-going
Environmental Log Book	Construction phase	On-going

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: 1, 8, 9, 15, 16, 21, 22, 26, 27, 29 and 30 September 2022.

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

Monitoring Station	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-1 (Serial No. 597337)	11 May 2022	Monthly EM&A Report No. 77, Appendix D

## 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 involved in 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	20 - 55	306	500
AR2	21 - 135	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** 

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

#### Notes:

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

## 3.1 Action and Limit Levels

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

**Table 3.2: Action and Limit Levels for Noise Monitoring** 

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

#### Note:

 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)	22 Mar 2022	Monthly EM&A Report No. 75, Appendix D
Acoustic Calibrator	Castle GA607 (Serial No. 040162)	22 Mar 2022	Monthly EM&A Report No. 75, Appendix D

## 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:

- h. The microphone head of the sound level meter was cleaned with soft cloth at regular intervals.
- i. 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 involved in the reporting period is provided in **Appendix C**. The monitoring sessions for NM4 & NM6 were rescheduled from 30 September 2022 to 5 October 2022 due to the hoisting of Amber Rainstorm Signal.

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>	59 - 62	75	
NM4 <sup>(1) (3)</sup>	60 - 64	70 <sup>(2)</sup>	
NM5 <sup>(1) (3)</sup>	53 - 62	75	
NM6 <sup>(1) (3)</sup>	61 - 66	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	Coord	dinates	<b>Parameters</b>	
		Easting	Northing		
C1	Control Station	804247	815620	General Parameters	
C2	Control Station	806945	825682	DO, pH,	
C3 <sup>(2)</sup>	Control Station	817803	822109	<ul><li>Temperature,</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	DO in mg/l (Surface, Middle & Bottom)	Surface and Middle 4.5mg/l Bottom 3.4mg/l		Surface and Middle 4.1mg/l Bottom 2.7mg/l			
Monitoring							
	Suspended Solids (SS) in mg/l	23	or 120% of upstream control station at the same tide of the same day, whichever is higher	37	or 130% of upstream control		
	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 Limit Levels SR8							
SS (mg/l)		52		60			

## Notes:

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

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, pH, temperature, salinity and turbidity)	YSI ProDSS (Serial No. 21G105356)	28 Jul 2022	Monthly EM&A Report No. 79, Appendix D
	YSI ProDSS (Serial No. 15M100005)	28 Jul 2022	Monthly EM&A Report No. 79, Appendix D
	YSI ProDSS (Serial No. 16H104233)	16 Sep 2022	Appendix E
	YSI ProDSS (Serial No. 17E100747)	16 Sep 2022	Appendix E

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	<b>Brand and Model</b>
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	Analytical Method	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**. 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** 

		C&D Material Reused in the Project (m³)	Reused in other	Transferred to	Chemical Waste (kg)	Chemical Waste (I)	General Refuse (tonne)
September 2022 <sup>(2)</sup>	7,051	77,917	11,226	5,452	240	3,800	1,857

#### 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.

Only backfilling works for treated marine sediment was 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	
Running quarterly <sup>(1)</sup> STG < 1.86 & ANI < 9.35	
Two consecutive running quarterly <sup>(2)</sup> (3-month) STG < 1.86 & ANI < 9.35	

Notes: (referring to the baseline monitoring report)

Action Level<sup>(3)</sup> Limit Level<sup>(3)</sup>

- (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	L		
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	VL		
1S	804671	814577	5S	808504	821735
1N	804671	831404	5N	808504	828602
2Sb	805475	815457	6S	809490	822075
2Nb	805476	818571	6N	809490	825352
2Sa	805476	820770	7S	810499	822323
2Na	805476	830562	7N	810499	824613
3S	806464	821033	8S	811508	821839
3N	806464	829598	8N	811508	824254
4S	807518	821395	9S	812516	821356
4N	807518	829230	9N	812516	824254
		A	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	8W	800800	812450
2E	801750	806450	8E	802900	812450
3W	799600	807450	9W	801500	813550
3E	801500	807450	9E	803120	813550
4W	799400	808450	10W	801880	814500
4E	801430	808450	10E	803700	814500
5W	799500	809450	11W	802860	815500
5E	801300	809450	12S/11E	803750	815500
6W	799800	810450	12N	803750	818500
6E	801400	810450			2.3003
		SV	VL		
1S	802494	803961	6S	807467	801137
1N	802494	806174	6N	807467	808458
28	803489	803280	7S	808553	800329
2N	803489	806720	7N	808553	807377
3\$	804484	802509	8S	809547	800338
3N	804484	807048	8N	809547	807396
4S	805478	802105	9S	810542	800423
43 4N	805478	807556	9S 9N	810542	807462
5S	806473	801250	10S	811446	801335

#### 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 5, 6, 8, 9, 14, 19, 20 and 21 September 2022 covering all transects in NEL, NWL, AW, WL and SWL survey areas for twice.

A total of around 448.42 km of survey effort was collected from these surveys and 431.26 km of the 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, 10 sightings with 32 dolphins were sighted. All these sightings were on-effort records under favourable weather condition (i.e. Beaufort Sea State 3 or below with favourable visibility). Details of cetacean sightings are presented in **Appendix D**.

Distribution of all CWD sightings recorded in the current reporting period is illustrated in **Figure 6.3**. CWD groups in WL were recorded at waters near Tai O and Fan Lau. In SWL, CWD groups scattered at waters around the Soko Islands. In NWL, two CWD sightings were recorded near Lung Kwu Chau. There was no CWD sighting recorded in NEL survey area during the reporting period.

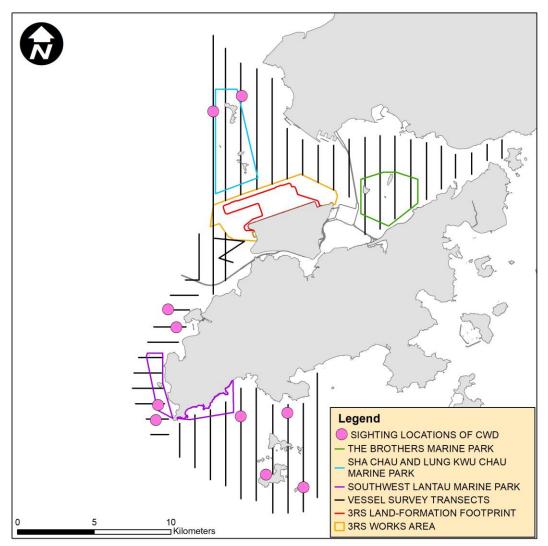


Figure 6.3: Sightings Distribution of Chinese White Dolphins

Remarks: (1) Please note that there are 10 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 431.26 km of survey effort were conducted under Beaufort Sea State 3 or below with favourable visibility, whilst a total number of 10 on-effort sightings with 32 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 July to September 2022), a total of around 1304.97 km of survey effort were conducted under Beaufort Sea State 3 or below with favourable visibility, whilst a total number of 57 on-effort sightings and a total number of 185 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. The running quarterly encounter rates STG and ANI remain above the Action Level, thus the Action Level is not triggered.

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

	Encounter Rate (STG)	Encounter Rate (ANI)
September 2022	2.32	7.42
Running Quarter from July to September 2022 <sup>(1)</sup>	4.37	14.18
Action Level	Running quarterly <sup>(1)</sup> ST	ΓG < 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, 10 groups of 32 dolphins in total were sighted, and the average group size of CWDs was 3.2 dolphins per group. The number of CWD sightings with small group size (i.e. 1-2 dolphins) and CWD sightings with medium group size (i.e. 3-9 dolphins) were the same, where each accounted for half of the total sightings. No CWD sighting with large group size (i.e. 10 or more dolphins) was recorded in the current reporting period.

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

There were three CWD sightings recorded engaging in foraging activities in the current reporting period in SWL and WL survey areas. No association with operating fishing boat was recorded.

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

In this reporting period, there was one CWD sighting recorded with mother-and-unspotted juvenile pair in WL survey area.

#### 6.4.2 Photo Identification

In the current reporting period, a total number of 17 different CWD individuals were identified for totally 19 times. A summary of photo identification works is presented in **Table 6.5**. Representative photos of these individuals are given in **Appendix D**.

Individual Date of

**Table 6.5: Summary of Photo Identification** 

Individual ID	Date of Sighting (dd-mmm- yy)	Sighting Group No.	Area
NLMM013	9-Sep-22	2	NWL
NLMM015	19-Sep-22	1	WL
NLMM028	9-Sep-22	2	NWL
SLMM002	19-Sep-22	3	WL
SLMM023	19-Sep-22	2	WL
SLMM029	19-Sep-22	3	WL
SLMM035	6-Sep-22	12	SWL
SLMM037	6-Sep-22	12	SWL
SLMM044	19-Sep-22	2	WL
		3	WL

ID	Sighting (dd-mmm- yy)	Group No.	
SLMM049	19-Sep-22	2	WL
WLMM007	19-Sep-22	3	WL
WLMM018	19-Sep-22	2	WL
WLMM043	20-Sep-22	1	WL
WLMM056	6-Sep-22	12	SWL
WLMM114	19-Sep-22	3	WL
WLMM131	6-Sep-22	12	SWL
		16	SWL
WLMM164	19-Sep-22	1	WL

Sighting

Area

#### 6.4.3 Land-based Theodolite Tracking Survey

#### **Survey Effort**

Land-based theodolite tracking surveys were conducted at LKC on 16 September 2022 and at SC on 21 September 2022, with a total of two days of land-based theodolite tracking survey effort accomplished in this reporting period. No CWD group was tracked off LKC or SC stations during the reporting period. Information of survey effort and CWD groups are presented in **Table 6.6**. Details of the survey effort are presented in **Appendix 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 11 August 2022 and the next retrieval is scheduled in mid-October. 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 contractors 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 prior to the aforementioned works, with a cumulative total of 704 individuals being trained and the training records kept by the ET. From the contractors' DEZ monitoring records, no dolphin or other marine mammals were observed within or around the silt curtain or DEZ 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, physically 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 Contractor's performance on the implementation of advanced hydroseeding works was observed and checked by the ET during weekly site inspection.

3303

# 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 a transplanted tree (CM9)



General view of advanced hydroseeding around taxiways and runways (CM10)

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. 36 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.			
Non-conformity on one occasion	Identify source.	Check report.	Notify Contractor.	Amend working methods to prevent		

Event Action Level		Action		
	ET	IEC	AAHK/PM	Contractor
	Inform IEC and AAHK / PM. Discuss remedial actions with IEC, AAHK / PM and Contractor. Monitor remedial	Check Contractor's working method.  Discuss with ET and Contractor on possible remedial measures.  Advise AAHK / PM	Ensure remedial measures are properly implemented.	recurrence of non- conformity. Rectify damage and undertake additional action necessary.
	actions until rectification has been completed.	on effectiveness of proposed remedial measures. Check implementation of remedial measures.		
Repeated Non-conformity	Identify source. Inform IEC and AAHK / PM. Increase monitoring frequency. Discuss remedial actions with IEC, AAHK / PM and Contractor. Monitor remedial actions until rectification has been completed. If non-conformity stops, cease additional monitoring.	Check monitoring report. Check Contractor's working method. Discuss with ET and Contractor on possible remedial measures. Advise AAHK / PM on effectiveness of proposed remedial measures. Supervise implementation of remedial measures.	Notify Contractor. Ensure remedial measures area properly implemented.	Amend working methods to prevent recurrence of non-conformity.  Rectify damage and undertake additional action necessary.

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

Existing				
Contract	Retain (nos.)	Transplant	ed (nos.)	To-be-transplanted
		Establishment Period	Maintenanc e Period	(nos.)
3302	9	0	0	0
3503	0	0	9	0
3508 <sup>(1)</sup>	24	0	12	0
3602	0	0	0	0
3801	3	0	5 <sup>(2)</sup>	0
Sub-total	36	0	26	0
Provisional				
Contract	Retain (nos.)	Transplant	ed (nos.)	To-be-transplanted (nos.)
3508 <sup>(1)</sup>	50	0		10
Sub-total	50	0		10
Grand Total	86	26	i	10

Notes:

<sup>(1)</sup> As some of the site areas have been handed over to Contract 3508, Contractor of Contract 3508 is currently managing the trees that are located within their site area. Existing trees to be managed by Contract 3508 is subject to change after initial tree surveys for each batch of site areas have been conducted by the Contractor.

(2) Three transplanted trees (CT1194, CT1794 and CT1795) were subsequently felled after transplantation. Please refer to **Table 7.6** for details.

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 2023. Photos	
CT1253	4 May 2018	Long Term Management period Jun 2019 – May 2028	Southern Landside Petrol Filling Station	<ul> <li>of the last inspection in February 2022 can be referred to Table 7.7 of the Construction Phase Monthly EM&amp;A Report No.74.</li> </ul>	
T835	22 Jan 2020	Long Term Management period Feb 2021 – Jan 2030	AAHK	Establishment Period w completed. Next inspection will conducted in February 2023. Phot	
T836	13 Dec 2019	Long Term Management period Feb 2021 – Jan 2030	AAHK	of the last inspection in February 2022 can be referred to Table 7.7 of the Construction Phase Monthly	
T838	22 Jan 2020	Long Term Management period Feb 2021 – Jan 2030	AAHK	EM&A Report No.74.	
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 2022.</li> <li>Photos of the last inspection in December 2021 can be referred to</li> </ul>	
T815	15 Dec 2020	Long Term Management period Jan 2022 – Dec 2031	AAHK	Table 7.7 of the Construction Pha Monthly EM&A Report No.72.	
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	AAHK	_	
T1493	6 Jul 2021	Long Term Management period Aug 2022 – Jul 2031	Contract 3508	Establishment Period was completed. Next inspection will be	
T1494	6 Jul 2021	Long Term Management period Aug 2022 – Jul 2031	Contract 3508	<ul> <li>conducted in July 2023. Photos of the last inspection in July 2022 can be referred to Table 7.7 of the</li> </ul>	
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	Contract 3508		

Tree ID	Transplant Date	Management Stage	Management Agency	Remarks
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 Aug 2022 – Jul 2031	Contract 3508	-
CT1194	4 May 2018	Long Term Management period Jun 2019 – May 2028	Southern Landside Petrol Filling Station	Establishment Period was completed. Uprooted and collapsed due to Typhoon Higos on 18 August 2020. Tree removal was conducted as recommended by tree specialist of the contractor of Southern Landside Petrol Filing Station.
CT1794	3 May 2018	Long Term Management period Jun 2019 – May 2028	AsiaWorld-Expo	Establishment Period was completed. The tree within the land parcel was acquired by the government for construction of emergency hospital to handle COVID19 pandemic at AsiaWorld-Expo. The tree was felled in late 2020.
CT1795	3 May 2018	Long Term Management period Jun 2019 – May 2028	AsiaWorld-Expo	Establishment Period was completed. The tree within the land parcel was acquired by the government for construction of emergency hospital to handle COVID19 pandemic at AsiaWorld-Expo. The tree was felled in late 2020.

#### 7.3 Land Contamination Assessment

The Supplementary CAP was submitted to EPD pursuant to EP Condition 2.20. The CARs for Golf Course and T2 Emergency Power Supply Systems (EPSS) were submitted to EPD in accordance with EP Condition 1.9 and the Supplementary CAP in which no land contamination issues were identified. EPD 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 COVID-19 pandemic, all SkyPier HSF services to/from Zhuhai and Macau have been suspended from 25 March 2020 until further notice. No ferry movement between HKIA SkyPier and Zhuhai and Macau was recorded in September 2022. Key audit findings for the SkyPier HSFs travelling to/from Zhuhai and Macau against the requirements of the SkyPier Plan during the reporting period are 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., 7 to 8 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.

As updated by CLP Power, the construction works of the Hong Kong Offshore LNG Terminal Project may affect the route diversion operation of the SkyPier HSFs from Q1 to Q3 2022. The captains were informed on the issue and ET will continue to closely monitor the implementation of the SkyPier Plan in the period.

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

Requirements in the SkyPier Plan	1 to 30 September 2022
Total number of ferry movements recorded and audited for HSF to/from Zhuhai and Macau	0
Use diverted route and enter / leave SCZ through Gate Access Points	0 deviation
A maximum daily cap of 125 movements for all SkyPier HSFs including those not using diverted route	7 to 8 daily movement

# 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 contractors' Environmental Officers. Competency tests were 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, 4 skippers were trained by contractor's Environmental Officers. In total, 1875 skippers were trained from August 2016 to September 2022.
- 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, entered no entry zone, and entering from non-designated gates were identified. All the concerned contractors were reminded to comply with the requirements of the MTRMP-CAV during the bi-weekly 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 were no dolphin sightings 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	Marine Travel Routes and Management Plan for Construction and Associated			
2.10	Marine Travel Routes and Management Plan for High Speed Ferries of SkyPier				
2.11	Marine Mammal Watching Plan	_			
2.12	Coral Translocation Plan	<ul> <li>Accepted / approved by EPD</li> </ul>			
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 F**.

# 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  ${\bf Appendix}~{\bf G}.$ 

# 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**

- Seawall construction; and
- Backfilling works.

#### **Airfield Works:**

#### Contract 3302 Eastern Vehicular Tunnel Advance Works

- Construction of tunnel structure;
- Pipe and drainage diversion works;
- Excavation and lateral support systems installation; and
- Stockpiling.

#### Contract 3303 Third Runway and Associated Works

- Architectural, builder's and finishing works;
- Footing and utilities work;
- Pavement work; and
- Cable laying and ducting works.

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

- Enhanced vehicular warning light hardware installation; and
- Software development.

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

Equipment installation.

# **Contract 3307 Fire Training Facility**

- Architectural, builder's and finishing works;
- Drainage and utilities works;
- Building construction.

# 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;
- Excavation works;
- Seawall construction;
- Construction of stormwater drainage;
- Construction of walls and slabs;
- Installation of pipe piles; and
- Backfilling works.

#### **Third Runway Concourse**

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

- Roofing installation and steel frame erection of covered walkway; and
- Alterations and additions works.

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

System maintenance.

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

- Bored piling;
- Structure works:
- Excavation; and
- Road formation.

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

- Reinforced concrete works;
- Site setup works; and
- Excavation.

# **Terminal 2 Expansion:**

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

- Excavation and footing construction;
- Viaduct Pier and temporary road construction;
- Pump station and electrical station construction;
- Demolition 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**

Laying and connection of water mains.

# **Contract 3723 Construction Support Facilities**

- Clearance works; and
- E&M installation.

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

# Contract 3801 APM and BHS Tunnels on Existing Airport Island

- Ventilation ducts construction;
- Demolition works; and
- U-channel and tunnel construction.

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

- Demolition works;
- Excavation and lateral supports; and
- Tunnel construction.

#### **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 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 works, 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, due to the COVID-19 pandemic, all SkyPier HSF services to/from Zhuhai and Macau have been suspended from 25 March 2020 until further notice. No HSF movement between HKIA SkyPier and Zhuhai and Macau was recorded during the reporting period. Therefore, no deviation was recorded in the HSF monitoring in the reporting period. The daily movements of all SkyPier HSFs in the reporting period, including those not using the diverted route, were in the range of 7 to 8 daily movements, which are within the maximum daily cap of 125 daily movements.

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. Trainings have been provided for the concerned skippers to facilitate them in familiarising with the requirements of the MTRMP-CAV. Deviations including speeding in the works area, 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**

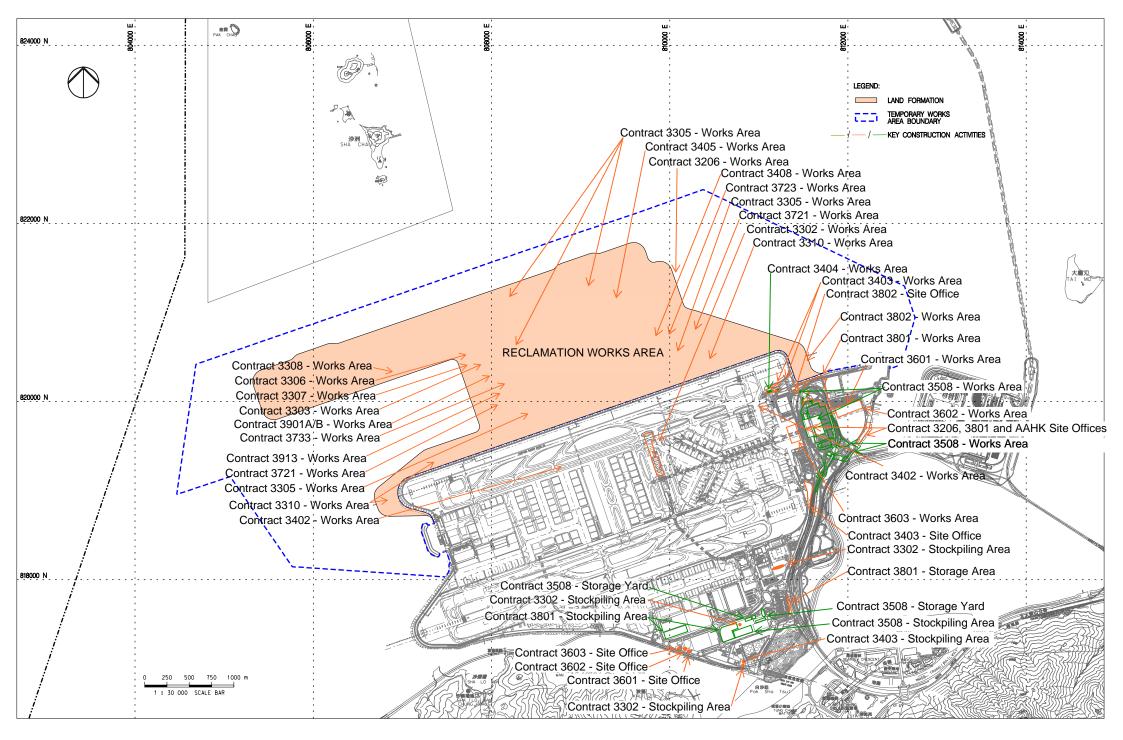
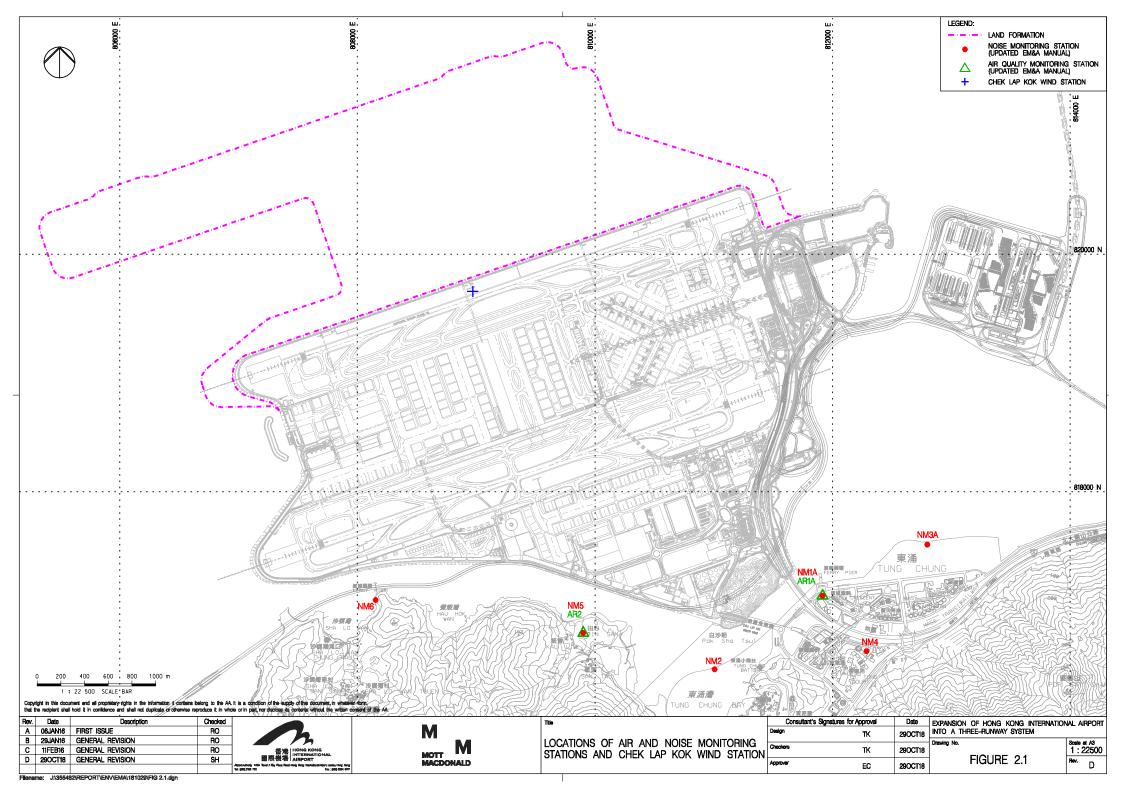
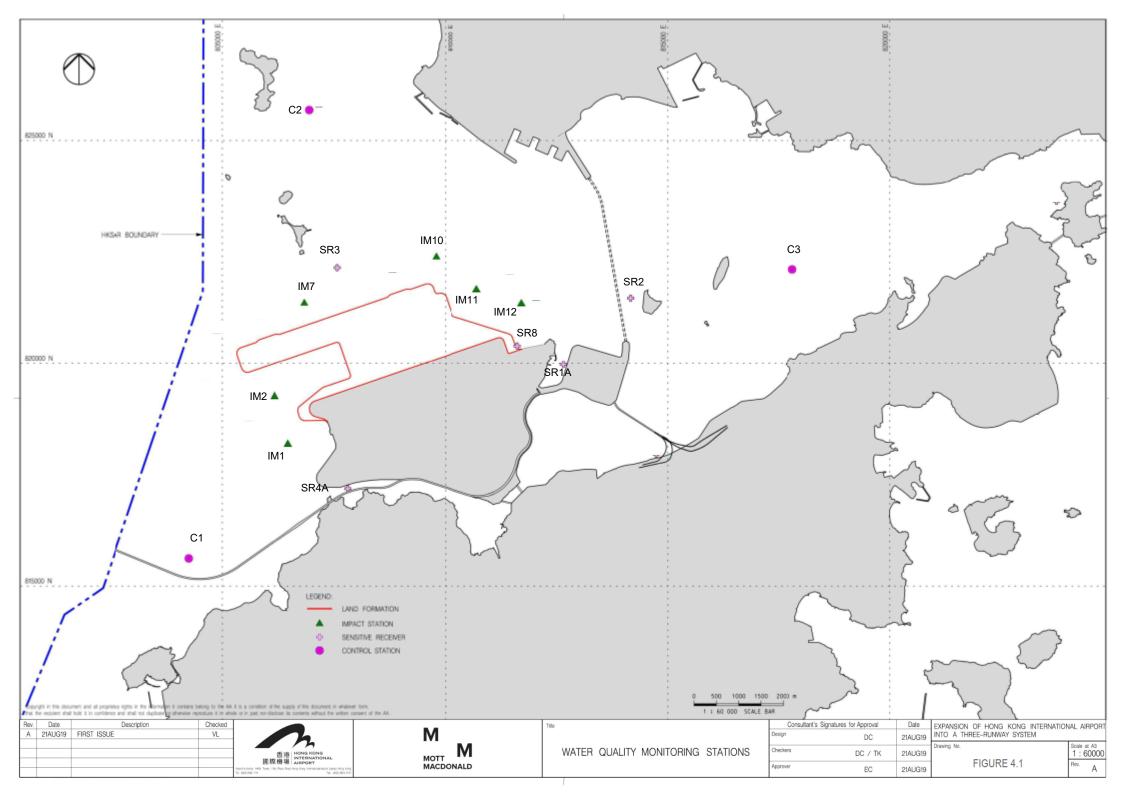
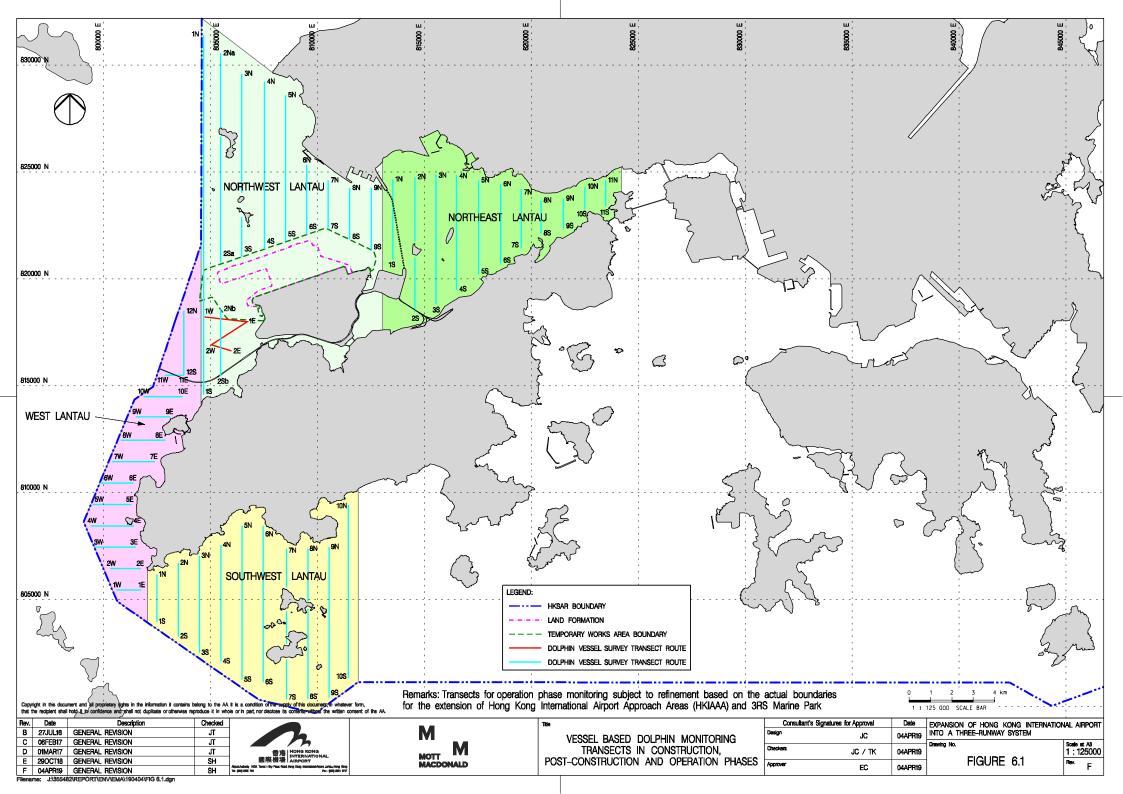
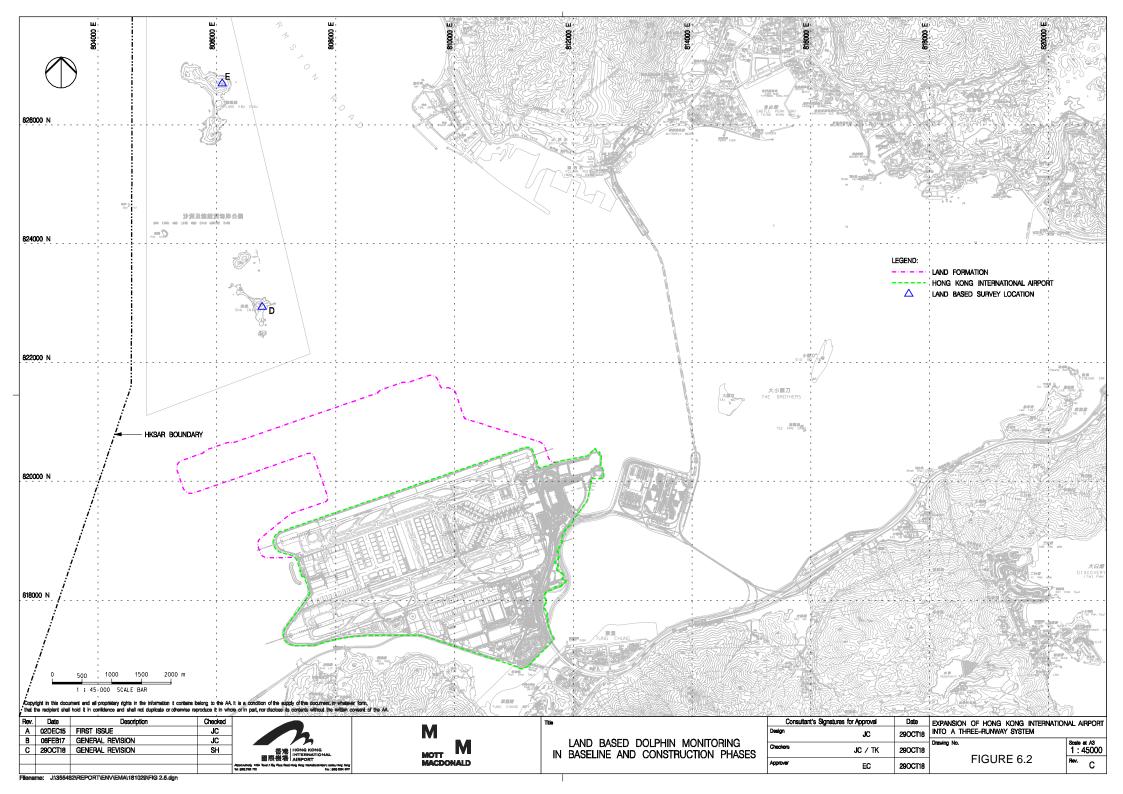


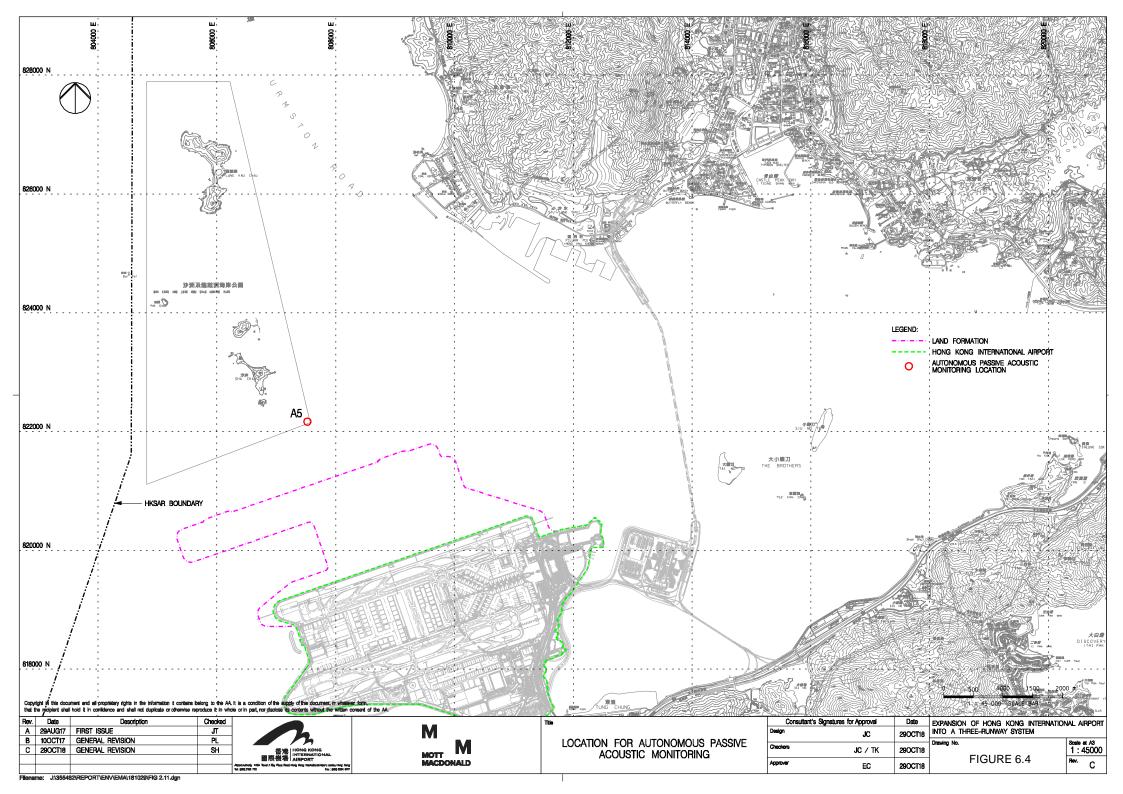
FIGURE 1.1 LOCATIONS OF KEY CONSTRUCTION ACTIVITIES











# **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.
3301	North Runway Crossover Taxiway	Fujita Corporation-China Harbour Engineering Company LtdZhen Hua Engineering Company Ltd. Joint Venture	The works covered by the Contract 3301 comprise the construction of a new dual taxiway across the existing north runway and utility services and cable ducting systems. The major construction activities include without limitation the following: <ul> <li>Construction of a new dual taxiway;</li> <li>Cable ducting works;</li> <li>Extension of existing portable water supply system; and</li> <li>All associated works.</li> </ul>
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.
3303	Third Runway and Associated Works	Sinohydro Corporation Limited, Powerchina Airport Construction Company Limited, Paul Y. Construction Company Limited, and Rock-One	The works covered by the Contract 3303 comprise all elements of permanent works and temporary works required for the completion, commissioning and operation of the new North Runway and existing South Runway following the closure of the existing North Runway. The major construction activities include without limitation the following:  • New runway, taxiways, and associated works;

Contract No.	Contract Title	Contractor	Key Construction Activities
		Engineering Company Limited Joint Venture	<ul> <li>Infrastructure works;</li> <li>Construction of ancillary buildings and facilities;</li> <li>Set up of various airport systems; and</li> <li>All associated testing and commissioning works.</li> </ul>
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;  • Fibre optic cables and data cables supply and connection;  • Set up Control and Communication system;  • Minor building work and accessories; and  • All associated testing and commissioning works.
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:

Contract No.	Contract Title	Contractor	Key Construction Activities
			<ul> <li>Excavation works;</li> <li>Construction of FOD sensor towers;</li> <li>Set up FOD detection system;</li> <li>Civil and structural works; and</li> </ul>
3310	North Runway Modification Works	China State Construction Engineering (Hong Kong) Ltd Fujita Corporation Joint Venture	<ul> <li>All associated electrical and mechanical works.</li> <li>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:         <ul> <li>Modification works for existing north runway;</li> <li>Connections works for new taxiways;</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 asphalt pavement work and earthwork.</li> </ul> </li> </ul>
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: <ul> <li>Site clearance and demolition;</li> <li>Building structure and envelope;</li> <li>Building Services and Airport Systems; and</li> <li>Utilities division and installations.</li> </ul>

Contract No.	Contract Title	Contractor	Key Construction Activities
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>
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.
3503	Terminal 2 Foundation and Substructure Works	Leighton - Chun Wo Joint Venture	The works covered by the Contract 3503 comprise the foundations for the new T2 terminal, two annex buildings and associated viaducts, construction of the new T2 basement and south annex building structures, diaphragm walls, utility services and other advance works.  The major construction activities include without limitation the following:  Re-configuration and demolition of existing utilities and structures;

Contract No.	Contract Title	Contractor	Key Construction Activities
			<ul> <li>Pile foundations for the expanded T2 Terminal Building, South Annex Building, and North Annex Building;</li> <li>Construction of new South Annex Building;</li> <li>Diversion and provisions of utilities; and</li> <li>All associated testing and commissioning works.</li> </ul>
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;  • APM associated sub-systems (communications, signalling, etc.)  • Associated civil works; and  • All associated testing, commissioning works.

Contract No.	Contract Title	Contractor	Key Construction Activities
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.
3721	Construction Support Infrastructure Works	China State Construction Engineering (Hong Kong) Limited	The works covered by the Contract 3721 comprise the construction of the infrastructure works and building facilities on the reclaimed land formation. The major construction activities include without limitation the following:  • Project site road;  • Utilities;  • Cargo loading quays; and  • Security fencing and hoarding.
3722	Western Support Area – Construction Support Facilities	Tapbo Construction Company Limited and Konwo Modular House Limited Joint Venture	The works covered by the Contract 3722 comprise the design and construction of support facilities, including site office, Canteen, Safety Induction Centre and Medical Centre, Material Testing Laboratories and Typhoon Shelter, Vehicle Maintenance Facility and Fuel Storage Facility. The major construction activities include without limitation the following: <ul> <li>Construction of support facilities;</li> <li>Foundation and structural works; and</li> <li>Building services works.</li> </ul>
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> </ul>

Contract No.	Contract Title	Contractor	Key Construction Activities
			<ul> <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>
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:  • Construction of APM and BHS tunnels;  • Construction of ventilation building and associated infrastructure; and  • Construction, testing and commissioning of sewerage pumping station; and  • Civil and structural engineering works.
3802	APM and BHS Tunnels and Related Works	Gammon Construction Limited	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:  • Construction of APM/ BHS Tunnels;  • Construction of ancillary buildings/ facilities;  • Building services and airport systems;  • Infrastructure Works;  • Underground utilities and services; and  • All associated testing and commissioning works.

Contract No.	Contract Title	Contractor	Key Construction Activities
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 concrete products and the continual operation of the Facility.</li> </ul>
3901B Concrete Batching Facility Concrete  Supply of all equipment for the installation  Concrete products and the continual oper.  The works covered by the Contract 3901B comp operation and maintenance of a concrete batching and the supply of concrete products. The major of without limitation the following:  Supply of all equipment for the installation  Supply of all raw materials required for the		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	
3913	Asphalt Batching Plant	Sinohydro Corporation Limited, Paul Y. 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	I
5.2.6.4	2.1	-	Dust control practices as stipulated in the Air Pollution Control (Construction Dust) Regulation should be adopted. These practices include:  Good Site Management  Good site management is important to help reducing potential air quality impact down to an acceptable level. As a general guide, the Contractor should maintain high standard of housekeeping to prevent emission of fugitive dust. Loading, unloading, handling and storage of raw materials, wastes or byproducts should be carried out in a manner so as to minimise the release of visible dust emission. Any piles of materials accumulated on or around the work areas should be cleaned up regularly. Cleaning, repair and maintenance of all plant facilities within the work areas should be carried out in a manner minimising generation of fugitive dust emissions. The material should be handled properly to prevent fugitive dust emission before cleaning.	Within construction site / Duration of the construction phase	I
			Disturbed Parts of the Roads  Each and every main temporary access should be paved with concrete, bituminous hardcore materials or metal plates and kept clear of dusty materials; or  Unpaved parts of the road should be sprayed with water or a dust suppression chemical so as to keep the entire road surface wet.	Within construction site / Duration of the construction phase	I
			<ul> <li>Exposed Earth</li> <li>Exposed earth should be properly treated by compaction, hydroseeding, vegetation planting or seating with latex, vinyl, bitumen within six months after the last construction activity on the site or part of the site where the exposed earth lies.</li> </ul>	Within construction site / Duration of the construction phase	1



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			Loading, Unloading or Transfer of Dusty Materials  • All dusty materials should be sprayed with water immediately prior to any loading or transfer operation so as to keep the dusty material wet.	Within construction site / Duration of the construction phase	ı
			Debris Handling  • Any debris should be covered entirely by impervious sheeting or stored in a debris collection area sheltered on the top and the three sides; and	Within construction site / Duration of the construction phase	I
			<ul> <li>Before debris is dumped into a chute, water should be sprayed so that it remains wet when it is dumped.</li> <li>Transport of Dusty Materials</li> <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>	Within construction site / Duration of the construction phase	1
			Wheel washing  Vehicle wheel washing facilities should be provided at each construction site exit. Immediately before leaving the construction site, every vehicle should be washed to remove any dusty materials from its body and wheels.	Within construction site / Duration of the construction phase	ı
			Use of vehicles  The speed of the trucks within the site should be controlled to about 10km/hour in order to reduce adverse dust impacts and secure the safe movement around the site;	Within construction site / Duration of the construction phase	1
			<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> <li>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.</li> </ul>		
			Site hoarding  Where a site boundary adjoins a road, street, service lane or other area accessible to the public, hoarding of not less than 2.4m high from ground level should be provided along the entire length of that portion of the site boundary except for a site entrance or exit.	Within construction site / Duration of the construction phase	I
5.2.6.5	2.1	-	Best Practices for Concrete Batching Plant  The relevant best practices for dust control as stipulated in the Guidance Note on the Best Practicable Means for Cement Works (Concrete Batching Plant) BPM 3/2 as well as in the future Specified Process licence should be adopted. The best practices are recommended to be applied to both the land based and floating concrete batching plants. Best practices include:  Cement and other dusty materials	Within Concrete Batching Plant / Duration of the construction phase	ı



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



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			• The stockpile shall be enclosed at least on top and three sides and with flexible curtain to cover the entrance side;		
			<ul> <li>Aggregates with a nominal size greater than 5 mm should preferably be stored in a totally enclosed structure. If open stockpiling is used, the stockpile shall be enclosed on three sides with the enclosure wall sufficiently higher than the top of the stockpile to prevent wind whipping; and</li> </ul>		
			■ The opening between the storage bin and weighing scale of the materials shall be fully enclosed.		
			Loading of materials for batching	Within Concrete	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 construction phase	
			(a) Pre-mixing the materials in a totally enclosed concrete mixer before loading the materials into the concrete truck is recommended. All dust-laden air generated by the pre-mixing process as well as the loading process shall be totally vented to fabric filtering system to meet the required emission limit; and		
			(b) If truck mixing batching or other types of batching method is used, effective dust control measures acceptable to EPD shall be adopted. The dust control measures must have been demonstrated to EPD that they are capable to collect and vent all dust-laden air generated by the material loading/mixing to dust arrestment plant to meet the required emission limit.		
			The loading bay shall be totally enclosed during the loading process.		
			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	
			• All access and route roads within the premises shall be paved and adequately wetted.	construction phase	
			Housekeeping	Within Concrete	I
			A high standard of housekeeping shall be maintained. All spillages or deposits of materials on ground, support structures or roofs shall be cleaned up promptly by a cleaning method acceptable to EPD. Any dumping of materials at open area shall be prohibited.	Batching Plant / Duration of the construction phase	
5.2.6.6	2.1	-	Best Practices for Asphaltic Concrete Plant	Within Concrete	1
			The relevant best practices for dust control as stipulated in the Guidance Note on the Best Practicable Means for Tar and Bitumen Works (Asphaltic Concrete Plant) BPM 15 (94) as well as in the future Specified Process licence should be adopted. These include:	Batching Plant / Duration of the construction phase	
			Design of Chimney	i,	
			• 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	1
			<ul> <li>The aggregates with a nominal size less than or equal to 5 mm shall be stored in totally enclosed structure such as storage bin and shall not be handled in open area;</li> </ul>	Batching Plant / Duration of the	
			• 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;	construction phase	
			• 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;	Batching Plant / Duration of the construction phase	
			• The bucket elevator shall be totally enclosed and the air be extracted and ducted to a dust collection system to meet the required particulates limiting value;		
			<ul> <li>All vibratory screens shall be totally enclosed and dust tight with close-fitted access inspection opening.</li> <li>Gaskets shall be installed to seal off any cracks and edges of any inspection openings;</li> </ul>		
			<ul> <li>Chutes for carrying hot material shall be rigid and preferably fitted with abrasion resistant plate inside.</li> <li>They shall be inspected daily for leakages;</li> </ul>		
			• All hot bins shall be totally enclosed and dust tight with close-fitted access inspection opening. Gaskets shall be installed to seal off any cracks and edges of any inspection openings. The air shall be extracted and ducted to a dust collection system to meet the required particulates limiting value; and		



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures	Mitigation Measures Implemented?^
				Timing of completion of measures	implemented?**
			<ul> <li>Appropriate control measures shall be adopted in order to meet the required bitumen emission limit as well as the ambient odour level (2 odour units).</li> </ul>		
			Material transportation	Within Concrete	1
			• The loading, unloading, handling, transfer or storage of other raw materials which may generate airborne dust emissions such as crushed rocks, sands, stone aggregates, reject fines, shall be carried out in such a manner as to minimize dust emissions;	Batching Plant / Duration of the construction phase	
			<ul> <li>Roadways from the entrance of the plant to the product loading points and/or any other working areas where there are regular movements of vehicles shall be paved or hard surfaced; and</li> </ul>		
			<ul> <li>Haul roads inside the Works shall be adequately wetted with water and/or chemical suppressants by water trucks or water sprayers.</li> </ul>	Within Concrete Batching Plant / Duration of the	
			Control of emissions from bitumen decanting		1
			■ 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;		
			<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>		
			<ul> <li>The emission of bitumen fumes shall not exceed the required emission limit; and</li> </ul>		
			• 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	1
			A high standard of housekeeping shall be maintained. Waste material, spillage and scattered piles gathered beneath belt conveyors, inside and around enclosures shall be cleared frequently. The minimum clearing frequency is on a weekly basis.	Batching Plant / Duration of the construction phase	
5.2.6.7	2.1	-	Best Practices for Rock Crushing Plants	Within Concrete	N/A as there was
			The relevant best practices for dust control as stipulated in the Guidance Note on the Best Practicable Means for Mineral Works (Stone Crushing Plant) BPM 11/1 (95) as well as in the future Specified Process licence should be adopted. These include:	Batching Plant / Duration of the construction phase	no rock crushing plant at this stage
			Crushers		



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 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;</li> </ul>		
			<ul> <li>The inlet hopper of the primary crushers shall be enclosed on top and 3 sides to contain the emissions during dumping of rocks from trucks. The rock while still on the trucks shall be wetted before dumping;</li> </ul>		
			<ul> <li>Water sprayers shall be installed and operated in strategic locations at the feeding inlet of crushers; and</li> </ul>		
			<ul> <li>Crusher enclosures shall be rigid and be fitted with self-closing doors and close-fitting entrances and exits.</li> <li>Where conveyors pass through the crusher enclosures, flexible covers shall be installed at entries and exits of the conveyors to the enclosure.</li> </ul>		
			Vibratory screens and grizzlies	Within Concrete	N/A as there was
			• All vibratory screens shall be totally enclosed in a housing. Screenhouses shall be rigid and reasonably dust tight with self-closing doors or close-fitted entrances and exits for access. Where conveyors pass through the screenhouse, flexible covers shall be installed at entries and exits of the conveyors to the housing. Where containment of dust within the screenhouse structure is not successful then a dust extraction and collection system shall be provided; and	Batching Plant / Duration of the construction phase	no rock crushing plant at this stage
			<ul> <li>All grizzlies shall be enclosed on top and 3 sides and sufficient water sprayers shall be installed at their feeding and outlet areas.</li> </ul>		
			Belt conveyors	Within Concrete	N/A as there was
			<ul> <li>Except for those conveyors which are placed within a totally enclosed structure such as a screenhouse or those erected at the ground level, all conveyors shall be totally enclosed with windshield on top and 2 sides;</li> </ul>	Batching Plant / Duration of the construction phase	no rock crushing plant at this stage
			• Effective belt scraper such as the pre-cleaner blades made by hard wearing materials and provided with pneumatic tensioner, or equivalent device, shall be installed at the head pulley of designated conveyor as required to dislodge fine dust particles that may adhere to the belt surface and to reduce carry-back of fine materials on the return belt. Bottom plates shall also be provided for the conveyor unless it has been demonstrated that the corresponding belt scraper is effective and well maintained to prevent falling material from the return belt; and		
			Except for those transfer points which are placed within a totally enclosed structure such as a screenhouse, all transfer points to and from conveyors shall be enclosed. Where containment of dust within the enclosure is not successful, then water sprayers shall be provided. Openings for any enclosed structure for the passage of conveyors shall be fitted with flexible seals.		
			Storage piles and bins	Within Concrete	N/A as there was
			<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	Mitigation Measures
				Timing of completion of measures	Implemented?^
			<ul> <li>The surface of all surge piles and stockpiles of blasted rocks or aggregates shall be kept sufficiently wet by water spraying wherever practicable;</li> </ul>		
			<ul> <li>All open stockpiles for aggregates of size in excess of 5 mm shall be kept sufficiently wet by water spraying where practicable; or</li> </ul>		
			• The stockpiles of aggregates 5 mm in size or less shall be enclosed on 3 sides or suitably located to minimize wind-whipping. Save for fluctuations in stock or production, the average stockpile shall stay within the enclosure walls and in no case the height of the stockpile shall exceed twice the height of the enclosure walls; and		
			• Scattered piles gathered beneath belt conveyors, inside and around enclosures shall be cleared regularly.		
			Rock drilling equipment	Within Concrete	N/A as there was
			<ul> <li>Appropriate dust control equipment such as a dust extraction and collection system shall be used during rock drilling activities.</li> </ul>	Batching Plant / Duration of the construction phase	no rock crushing plant at this stage
			Hazard to Human Life – Construction Phase		
Table 6.40	3.2	-	<ul> <li>Precautionary measures should be established to request barges to move away during typhoons.</li> </ul>	Construction Site / Construction Period	1
Table 6.40	3.2	-	• An appropriate marine traffic management system should be established to minimize risk of ship collision.	Construction Site / Construction Period	1
Table 6.40	3.2	-	<ul> <li>Location of all existing hydrant networks should be clearly identified prior to any construction works.</li> </ul>	Construction Site / Construction Period	1
			Noise Impact – Construction Phase		
7.5.6	4.3	-	Good Site Practice Good site practice and noise management can significantly reduce the impact of construction site activities on nearby NSRs. The following package of measures should be followed during each phase of construction:	Within the Project site / During construction phase / Prior to	1
			<ul> <li>only well-maintained plant to be operated on-site and plant should be serviced regularly during the construction works;</li> </ul>	commencement of operation	
			<ul> <li>machines and plant that may be in intermittent use to be shut down between work periods or should be throttled down to a minimum;</li> </ul>		
			<ul> <li>plant known to emit noise strongly in one direction, should, where possible, be orientated to direct noise away from the NSRs;</li> </ul>		
			<ul> <li>mobile plant should be sited as far away from NSRs as possible; and</li> </ul>		
			<ul> <li>material stockpiles and other structures to be effectively utilised, where practicable, to screen noise from on-site construction activities.</li> </ul>		



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?
7.5.6	4.3	-	Adoption of QPME ■ QPME should be adopted as far as applicable.	Within the Project site / During construction phase / Prior to commencement of operation	I
7.5.6	4.3	-	<ul> <li>Use of Movable Noise Barriers</li> <li>Movable noise barriers should be placed along the active works area and mobile plants to block the direct line of sight between PME and the NSRs.</li> </ul>	Within the Project site / During construction phase / Prior to commencement of operation	I
7.5.6	4.3	-	<ul> <li>Use of Noise Enclosure/ Acoustic Shed</li> <li>Noise enclosure or acoustic shed should be used to cover stationary PME such as air compressor and generator.</li> </ul>	Within the Project site / During construction phase / Prior to commencement of operation	I
			Water Quality Impact – Construction Phase		
8.8.1.2 and 8.8.1.3	5.1	2.26	<ul> <li>Marine Construction Activities</li> <li>General Measures to be Applied to All Works Areas</li> <li>Barges or hoppers shall not be filled to a level which will cause overflow of materials or pollution of water during loading or transportation;</li> <li>Use of Lean Material Overboard (LMOB) systems shall be prohibited;</li> <li>Excess materials shall be cleaned from the decks and exposed fittings of barges and hopper dredgers</li> </ul>	Within construction site / Duration of the construction phase	1
			<ul> <li>Excess thaterials shall be cleaned from the decks and exposed fittings of barges and hopper dredgers before the vessels are moved;</li> <li>Plants should not be operated with leaking pipes and any pipe leakages shall be repaired quickly;</li> </ul>		
			<ul> <li>Adequate freeboard shall be maintained on barges to reduce the likelihood of decks being washed by wave action;</li> <li>All vessels shall be sized such that adequate clearance is maintained between vessels and the seabed at all states of the tide to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash;</li> </ul>		
			■ The works shall not cause foam, oil, grease, litter or other objectionable matter to be present in the water within and adjacent to the works site; and		
			• For ground improvement activities including DCM, the wash water from cleaning of the drilling shaft should be appropriately treated before discharge. The Contractor should ensure the wastewater meets the WPCO/TM requirements before discharge. No direct discharge of contaminated water is permitted.		



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			Specific Measures to be Applied to All Works Areas  The daily maximum production rates shall not exceed those assumed in the water quality assessment in the EIA report;	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
			• An advance seawall of at least 200m to be constructed (comprising either rows of contiguous permanent steel cells completed above high tide mark or partially completed seawalls with rock core to high tide mark and filter layer on the inner side) prior to commencement of marine filling activities;		C – Completed in May 2018
			■ Closed grab dredger shall be used to excavate marine sediment;		1
			<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.		I
			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)
			<ul> <li>The silt curtains and silt screens should be regularly checked and maintained.</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>Specific Measures to be Applied to Land Formation Activities during Marine Filling Works</li> <li>Double layer 'Type II' or 'Type III' silt curtains to be applied around the eastern openings between partially completed seawalls prior to commencement of marine filling activities. The silt curtains shall be configured to minimise SS release during ebb tides;</li> </ul>	Within construction site / Duration of the construction phase	*(The arrangement of silt curtain has been modified. The details can be referred to Silt Curtain Deployment Plan)
			<ul> <li>Double layer silt curtains to be applied at the south-western opening prior to commencement of marine filling activities;</li> </ul>		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 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> <li>Silt curtains surrounding the closed grab dredger to be deployed as a precautionary measure.</li> </ul>	site / Duration of the construction phase	joint excavation works for the submarine cable diversion will no longer be conducted anymore
8.8.1.4	5.1	-	Modification of the Existing Seawall	At the existing	- I
-	0.1		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	Mitigation Measures
				Timing of completion of measures	Implemented?^
8.8.1.5	5.1	-	<ul> <li>Construction of New Stormwater Outfalls and Modifications to Existing Outfalls</li> <li>During operation of the temporary drainage channel, runoff control measures such as bunding or silt fence shall be provided on both sides of the channel to prevent accumulation and release of SS via the temporary channel. Measures should also be taken to minimise the ingress of site drainage into the culvert excavations.</li> </ul>	Within construction site / Duration of the construction phase	I
8.8.1.6 8.8.1.7	5.1	2.27	Piling Activities for Construction of New Runway Approach Lights and HKIAAA Marker Beacons Silt curtains shall be deployed around the piling activities to completely enclose the piling works and care should be taken to avoid spillage of excavated materials into the surrounding marine environment.	Within construction site / Duration of the construction phase	C – For approach lights  N/A for marker beacons as HKIAAA Marker Beacons would be replaced by buoys
			<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:	Within construction site / Duration of the construction phase	
		ero pro sys are	• Install perimeter cut-off drains to direct off-site water around the site and implement internal drainage, erosion and sedimentation control facilities. Channels, earth bunds or sandbag barriers should be provided on site to direct storm water to silt removal facilities. The design of the temporary on-site drainage system should be undertaken by the Contractors prior to the commencement of construction (for works areas located on the existing Airport island) or as soon as the new land is completed (for works areas located on the new landform);		I
			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;		ı



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;	-	ı
			• 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	_	1
			• All vehicles and plant should be cleaned before leaving a construction site to ensure no earth, mud, debris and the like is deposited by them on roads. An adequately designed and sited wheel washing facility should be provided at construction site exits. Wash-water should have sand and silt settled out and removed regularly to ensure the continued efficiency of the process. The section of access road leading to, and exiting from, the wheel-wash bay to the public road should be paved with sufficient backfall toward the wheel-wash bay to prevent vehicle tracking of soil and silty water to public roads and drains. All washwater should be treated according to the requirements of the TM-DSS standards under the WPCO prior to discharge.		I
			<ul> <li>Open stockpiles of construction materials or construction wastes on-site should be covered with tarpaulin or similar fabric during rainstorms. Measures should be taken to prevent the construction materials, soil, silt or debris from washing away into the drainage system;</li> </ul>		1
			• Manholes (including newly constructed ones) should be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris being washed into the drainage system and to prevent stormwater runoff being directed into foul sewers; and		I
			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	Within construction	I
			Temporary sanitary facilities, such as portable chemical toilets, should be employed on-site where necessary to handle sewage from the workforce. A licensed contractor should be employed to provide appropriate and adequate portable toilets and be responsible for appropriate disposal and maintenance.	site / During construction phase	



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
8.8.1.10	5.1		General Construction Activities	Within construction	I
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 site / During construction phase	C – Completed in
8.8.1.13			To prevent potential water quality impacts at Sha Chau, the following measures shall be applied:		Jan 2019
			<ul> <li>A 'zero-discharge' policy shall be applied for all activities to be conducted at Sha Chau;</li> </ul>		
			<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>	•	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>Only non-dredged ground improvement methods should be adopted in order to completely avoid the need for dredging and disposal of marine sediment for the proposed land formation work;</li> </ul>		I
			<ul> <li>Excavation work for constructing the APM tunnels, BHS tunnels and airside tunnels will not be down to the CMPs beneath the fill materials in order to avoid excavating any sediments; and</li> </ul>	-	I
			■ For the marine sediments expected to be excavated from the piling works of TRC, APM & BHS tunnels, airside tunnels and other facilities on the proposed land formation area, piling work of marine sections of the approach lights and HKIAAA beacons, basement works for some of T2 expansion area and excavation works for the proposed APM depot should be treated and reused on-site as backfilling materials, although required treatment level / detail and the specific re-use mode are under development.	-	I
10.5.1.1	7.1	-	The following good site practices should be performed during the construction activities include:	Project Site Area /	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	
			<ul> <li>Training of site personnel in proper waste management and chemical waste handling procedures;</li> </ul>		
			<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>		
			<ul> <li>The speed of the trucks including dump trucks carrying C&amp;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</li> </ul>		
			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	I
10.5.1.16	7.1	-	The following mitigation measures are recommended during excavation and treatment of the sediments:  On-site remediation should be carried out in an enclosed area in order to minimise odour/dust emissions;	Project Site Area / Construction Phase	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>	•	I
			<ul> <li>All practical measures, including but not limited to speed control for vehicles, should be taken to minimise dust emission;</li> </ul>		I
			<ul> <li>Good housekeeping should be maintained at all times at the sediment treatment facility and storage area;</li> </ul>		1
			■ Treated and untreated sediment should be clearly separated and stored separately; and	-	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>		I



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
10.5.1.18	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>		anymore
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>		
			■ The contractor will use a licensed collector to transport and dispose of the chemical wastes at the approved Chemical Waste Treatment Centre or other licensed recycling facilities, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation.		
10.5.1.20	7.1	-	General refuse should be stored in enclosed bins or compaction units separated from inert C&D material. A reputable waste collector should be employed by the contractor to remove general refuse from the site for disposal at designated landfill sites. An enclosed and covered area should be provided to reduce the occurrence of 'windblown' light material.	Project Site Area / Construction Phase	I
10.5.1.21	7.1	-	The construction contractors will be required to regularly check and clean any refuse trapped or accumulated along the newly constructed seawall. Such refuse will then be stored and disposed of together with the general refuse.	Project Site Area / Construction Phase	I
			Land Contamination – Construction Phase		
11.10.1.2 to 11.10.1.3	8.1	2.32	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 Timing of completion of measures	Mitigation 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>		I *(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 Timing of completion of measures	Mitigation 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	9.1	2.30	Avoidance and Minimisation of Direct Impact to Egretry	During construction	C – Completed in
and 12.7.2.6			■ 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;	phase at Sheung Sha Chau Island	Jan 2019
			• In any event, controls such as demarcation of construction site boundary and confining the lighting within the site will be practised to minimise disturbance to off-site habitat at Sheung Sha Chau Island; and		
			The containment pit at the daylighting location shall be covered or camouflaged.		
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	9.1	2.30	Timing the Pipe Connection Works outside Ardeid's Breeding Season	During construction	C – Completed in Jan 2019
and 12.7.2.6			<ul> <li>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.</li> </ul>	phase at Sheung Sha Chau Island	
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	-	-	<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



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>Water quality mitigation measures during construction phases include consideration of alternative construction methods, deployment of silt curtain and good site practices;</li> </ul>	the construction phase	1	
		_		<ul> <li>Alternative construction methods including use of non-dredge methods for ground improvement (e.g. Deep Cement Mixing (DCM), prefabricated vertical drains (PVD), sand compaction piles, steel cells, stone columns and vertical sand drains);</li> </ul>		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	1	



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	Area between the	
			<ul> <li>The ET will audit various parameters including actual daily numbers of HSFs, compliance with the 15-knot speed limit in the speed control zone and diversion compliance for SkyPier HSFs operating to / from Zhuhai and Macau; and</li> </ul>	footprint and SCLKC Marine Park during construction phase	1
			■ The effectiveness of the CWD mitigation measures after implementation of initial six month SkyPier HSF diversion and speed restriction will be reviewed.		C – Completed in Sep 2016
13.11.5.14	10.3.1	2.31	Dolphin Exclusion Zone	Marine waters around	
to 13.11.5.18			<ul> <li>Establishment of a 24 hr Dolphin Exclusion Zone (DEZ) with a 250 m radius around the land formation works areas;</li> </ul>	land formation works area during construction phase	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>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.	<del>-</del>	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	I
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	1
			<ul> <li>A policy prohibiting dumping of wastes, chemicals, oil, trash, plastic, or any other substance that would potentially be harmful to dolphins and/or their habitat in the work area;</li> </ul>	the construction phase	
			<ul> <li>Mandatory educational programme of the no-dumpling policy be made available to all construction site personnel for all project-related works;</li> </ul>		
			<ul> <li>Fines for infractions should be implemented; and</li> </ul>		
			<ul><li>Unscheduled, on-site audits shall be implemented.</li></ul>		
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 to 14.9.1.18	-		Mitigation for Indirect Disturbance due to Deterioration of Water Quality  • Water quality mitigation measures during construction phases include consideration of alternative construction methods, deployment of silt curtain and good site practices;	All works area during the construction phase	1
			• 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 of measures	Mitigation Measures Implemented?^
			<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;	I
				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;	1
				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	-	<b>CM5</b> - 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	12.3	-	CM7 - Control of night-time lighting by hooding all lights and through minimisation of night working periods.	All works areas for duration of works;	1
				Upon handover and completion of works. – may be disassembled in phases.	
Table 15.6 12	12.3	•	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;	1
			necessary tree root and crown preparation periods shall be allowed in the project programme.	Upon handover and completion of works.	
Table 15.6	12.3	-	<b>CM10</b> - Land formation works shall be followed with advanced hydroseeding around taxiways and runways as soon as practical.	All affected existing grass areas around runways and verges/Duration of works;	I
				Upon handover and completion of works.	
			Cultural Heritage Impact – Construction Phase		
			Not applicable to the construction stage of this project.		
			Health Impact – Aircraft Emissions		
			Not applicable to the construction stage of this project.		



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			Health Impact – Aircraft 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

## Sep-22

		<del>-</del>	300 ZZ	71	E	0.4
Sunday	Monday	Tuesday	Wednesday	Thursday 1	Friday 2	Saturday 3
					Site Inspection	3
					NM4, NM6	
				WQ General		WQ General
				mid-ebb: 16:00		mid-ebb: 17:47
4	5	6	7	mid-flood: 09:52	9	mid-flood: 12:18 10
·	Site Inspection	Site Inspection	Site Inspection	Site Inspection	Site Inspection	
	CWD Survey (Vessel)	CWD Survey (Vessel)		CWD Survey (Vessel)	CWD Survey (Vessel)	
		AR1A, AR2				AR1A, AR2
		NM1A, NM5			NM4, NM6	
		WQ General		WQ General		WQ General
		mid-ebb: 09:15 mid-flood: 17:29		mid-ebb: 11:23 mid-flood: 18:48		mid-ebb: 12:59 mid-flood: 19:53
11	12	13	14	15	16	17
		Site Inspection	Site Inspection	Site Inspection	Site Inspection	
			CWD Survey (Vessel)		CWD Survey (Land-based)	
				NM4, NM6	AR1A, AR2 NM1A, NM5	
				INIVI4, INIVIO	NIVITA, NIVIS	
		WQ General		WQ General		WQ General
		mid-ebb: 14:51 mid-flood: 08:39		mid-ebb: 15:54 mid-flood: 10:12		mid-ebb: 17:07 mid-flood: 12:28
18	19	20	21	22	23	24
	Site Inspection	Site Inspection	Site Inspection	Site Inspection	Site Inspection	
	CWD Survey (Vessel)	CWD Survey (Vessel)	CWD Survey (Vessel, Land-based)			
				AR1A, AR2 NM1A, NM5	NM4, NM6	
				· ·	,	
		WQ General mid-ebb: 09:01	1	WQ General mid-ebb: 11:00		WQ General mid-ebb: 12:16
		mid-flood: 21:48	8	mid-flood: 18:17		mid-flood: 18:56
25	26	27	28	29	30	
	Site Inspection	Site Inspection	Site Inspection	Site Inspection	Site Inspection	
			AR1A, AR2 NM1A, NM5		NM4. NM6 <sup>[1]</sup>	
			,		THE THE	
		WQ General mid-ebb: 13:54		WQ General mid-ebb: 15:05		
		mid-flood: 07:39		mid-flood: 09:08		
		Notes:				
		Contract Number - Site Inspection CWD - Chinese White Dolphin				
			NM1A/AR1A - Man Tung Road Park			
		Air quality and Noise Monitoring Station	NM4 - Ching Chung Hau Po Woon Prima NM5/AR2 - Village House, Tin Sum	ary School		
			NM6 - House No. 1, Sha Lo Wan			
		WQ - Water Quality [1] Noise monitoring sessions for NM4 & N	VM6 were rescheduled from 30 September	2022 to 5 October 2022 due to the hoisting o	f Amher Rainstorm Signal	
		[1] . Tolog monitoring according for NIVI4 & I		2022 to 0 colors 2022 due to the holsting o		

## Tentative Monitoring Schedule of Next Reporting Period

## Oct-22

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Sunday	Moriday	luesuay	Wednesday	Thursday	Tilday	1
						WQ General
						mid-ebb: 16:40
2	3	4	5	6	7	mid-flood: 11:13 <b>8</b>
2	Site Inspection	4	Site Inspection	Site Inspection	Site Inspection	8
			·			
	CWD Survey (Vessel) AR1A, AR2			CWD Survey (Vessel)	CWD Survey (Vessel)	AR1A, AR2
	NM1A, NM5		NM4, NM6 <sup>[1]</sup>		NM4, NM6	
		WQ General		WQ General		WQ General
		mid-ebb: 07:23		mid-ebb:	10:12	mid-ebb: 11:54
		mid-flood: 20:21			17:42	mid-flood: 18:41
9	10 Site Inspection	11 Site Inspection	12 Site Inspection	13 Site Inspection	14 Site Inspection	15
		·	One inspection			
	CWD Survey (Vessel)	CWD Survey (Vessel)		CWD Survey (Vessel)	CWD Survey (Vessel) AR1A, AR2	
				NM4, NM6	NM1A, NM5	
		WQ General		WQ General		WQ General
		mid-ebb: 13:48		mid-ebb:	14:54	mid-ebb: 16:00
16	17	mid-flood: 07:48	19		09:19	mid-flood: 11:05 22
16	Site Inspection	18 Site Inspection	Site Inspection	20 Site Inspection	21 Site Inspection	22
					2 13 14 13 13	
	CWD Survey (Land-based)		CWD Survey (Vessel)	AR1A, AR2		
				NM1A, NM5	NM4, NM6	
		WQ General		WQ General		WQ General
		mid-ebb: 06:20		mid-ebb:	09:14	mid-ebb: 11:00
23	24	mid-flood: 19:11	26		17:10	mid-flood: 17:42 29
23	Site Inspection	25 Site Inspection	26 Site Inspection	27 Site Inspection	28 Site Inspection	29
			, , , , , , , , , , , , , , , , , , , ,		2 13 14 13 13	
	CWD Survey (Land-based)		AR1A, AR2			
			NM1A, NM5		NM4, NM6	
		WQ General		WQ General		WQ General
		mid-ebb: 12:52		mid-ebb:	14:13	mid-ebb: 15:44
20	24	mid-flood: 06:51 Notes:		mid-flood:	08:26	mid-flood: 10:20
30	31 Site Inspection	110163.				
		CWD - Chinese White Dolphin				
			NM1A/AR1A - Man Tung Road Park NM4 - Ching Chung Hau Po Woon Prim	pary School		
		Air quality and Noise Monitoring Station	NM5/AR2 - Village House, Tin Sum	iary concor		
		WQ - Water Quality	NM6 - House No. 1, Sha Lo Wan			
			IM6 were rescheduled from 30 September	er 2022 to 5 October 2022 due to the hoisting of	of Amber Rainstorm Signal.	
			•	•	•	

## **Appendix D. Monitoring Results**

Mott MacDonald   Expansion of Hong Kong International Airport into a Three-Runway System
Air Quality Monitoring Results

#### 1-hour TSP Results

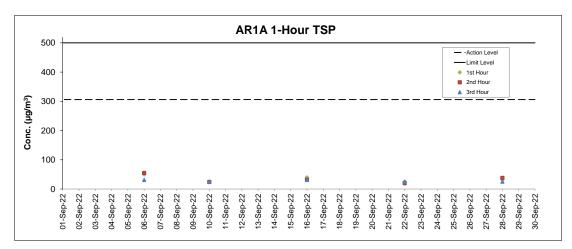
#### Station: AR1A- Man Tung Road Park

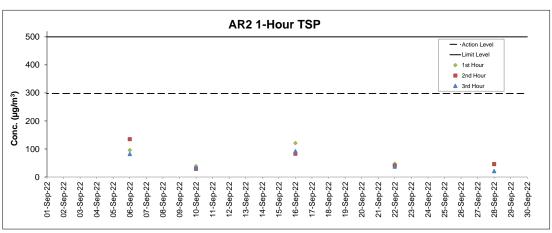
Date	Time	Weather	Wind Speed (m/s)	Wind Direction	1-hr TSP (μg/m³)	Action Level	Limit Level
			, , , , ,	(deg)	- :: : : : (   -   -   -   -   -   -   -   -   -	(μg/m³)	(μg/m³)
06-Sep-22	13:05	Sunny	3.3	273	50	306	500
06-Sep-22	14:05	Sunny	4.2	249	55	306	500
06-Sep-22	15:05	Sunny	4.7	102	31	306	500
10-Sep-22	13:19	Sunny	4.7	266	26	306	500
10-Sep-22	14:19	Sunny	5.0	241	24	306	500
10-Sep-22	15:19	Sunny	3.9	51	25	306	500
16-Sep-22	14:30	Sunny	3.3	334	40	306	500
16-Sep-22	15:30	Sunny	3.3	269	32	306	500
16-Sep-22	16:30	Sunny	4.7	243	31	306	500
22-Sep-22	15:32	Sunny	5.3	105	25	306	500
22-Sep-22	16:32	Sunny	6.4	99	20	306	500
22-Sep-22	17:32	Sunny	5.3	103	25	306	500
28-Sep-22	9:05	Sunny	8.6	86	32	306	500
28-Sep-22	10:05	Sunny	7.8	83	38	306	500
28-Sep-22	11:05	Sunny	8.9	77	25	306	500

#### 1-hour TSP Results

Station: AR2- Village House, Tin Sum

Station: ARZ- Village	e nouse, iiii s	buili					
Date	Time	Weather	Wind Speed (m/s)	Wind Direction	1-hr TSP (μg/m³)	Action Level	Limit Level
Date				(deg)		$(\mu g/m^3)$	(μg/m³)
06-Sep-22	8:38	Sunny	1.9	70	96	298	500
06-Sep-22	9:38	Sunny	2.8	51	135	298	500
06-Sep-22	11:04	Sunny	2.5	58	82	298	500
10-Sep-22	8:35	Sunny	1.4	Variable	39	298	500
10-Sep-22	9:35	Sunny	2.8	233	29	298	500
10-Sep-22	10:35	Sunny	3.3	267	33	298	500
16-Sep-22	10:50	Sunny	3.3	272	121	298	500
16-Sep-22	11:50	Sunny	3.6	265	83	298	500
16-Sep-22	12:50	Sunny	3.6	267	92	298	500
22-Sep-22	10:44	Sunny	5.8	105	47	298	500
22-Sep-22	11:44	Sunny	7.2	103	41	298	500
22-Sep-22	13:45	Sunny	4.4	102	37	298	500
28-Sep-22	13:07	Sunny	8.9	101	47	298	500
28-Sep-22	14:07	Sunny	10.0	104	46	298	500
28-Sep-22	15:07	Sunny	8.9	103	21	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.
- 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.

Noise Monitori	ing Results		

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

#### **Noise Measurement Results**

Station: NM1A- Man Tung Road Park

Date	Weather	Time	Measured	Measured	I 19(4) A
Date	weather	Time	<b>L</b> <sub>10</sub> dB(A)	$\mathbf{L}_{90}  \mathrm{dB(A)}$	L <sub>eq(30mins)</sub> dB(A) ^
06-Sep-22	Sunny	12:30	62.0	55.0	
06-Sep-22	Sunny	12:35	62.0	54.3	
06-Sep-22	Sunny	12:40	61.2	54.7	61
06-Sep-22	Sunny	12:45	60.3	54.8	01
06-Sep-22	Sunny	12:50	60.3	54.3	]
06-Sep-22	Sunny	12:55	59.5	54.4	]
16-Sep-22	Sunny	15:08	64.0	53.3	
16-Sep-22	Sunny	15:13	60.9	52.8	
16-Sep-22	Sunny	15:18	60.5	53.0	62
16-Sep-22	Sunny	15:23	60.1	52.6	62
16-Sep-22	Sunny	15:28	56.8	52.2	
16-Sep-22	Sunny	15:33	60.3	53.0	
22-Sep-22	Sunny	15:07	57.4	52.7	
22-Sep-22	Sunny	15:12	61.4	53.7	
22-Sep-22	Sunny	15:17	60.4	53.1	62
22-Sep-22	Sunny	15:22	61.6	53.4	02
22-Sep-22	Sunny	15:27	60.3	52.4	
22-Sep-22	Sunny	15:32	56.4	52.6	
28-Sep-22	Sunny	10:15	59.0	54.2	
28-Sep-22	Sunny	10:20	61.4	53.7	
28-Sep-22	Sunny	10:25	56.9	52.9	59
28-Sep-22	Sunny	10:30	59.0	52.6	39
28-Sep-22	Sunny	10:35	57.5	52.5	
28-Sep-22	Sunny	10:40	55.7	51.8	

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

### **Noise Measurement Results**

Station: NM4- Ching Chung Hau Po Woon Primary School

			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) ^
02-Sep-22	Sunny	09:21	64.9	60.9	
02-Sep-22	Sunny	09:26	66.4	62.2	
02-Sep-22	Sunny	09:31	63.8	60.7	60*
02-Sep-22	Sunny	09:36	66.3	61.0	60.
02-Sep-22	Sunny	09:41	67.0	61.8	
02-Sep-22	Sunny	09:46	65.6	61.9	
09-Sep-22	Sunny	08:21	63.4	60.7	
09-Sep-22	Sunny	08:26	69.4	59.3	
09-Sep-22	Sunny	08:31	71.7	58.9	64*
09-Sep-22	Sunny	08:36	63.2	58.8	04
09-Sep-22	Sunny	08:41	63.0	58.5	
09-Sep-22	Sunny	08:46	61.6	58.1	
15-Sep-22	Sunny	08:19	60.9	53.3	
15-Sep-22	Sunny	08:24	61.2	53.9	
15-Sep-22	Sunny	08:29	61.5	53.1	63
15-Sep-22	Sunny	08:34	61.7	52.7	03
15-Sep-22	Sunny	08:39	58.9	53.4	
15-Sep-22	Sunny	08:44	59.2	52.7	
23-Sep-22	Sunny	11:21	63.5	58.8	
23-Sep-22	Sunny	11:26	62.2	60.4	
23-Sep-22	Sunny	11:31	62.9	60.8	64*
23-Sep-22	Sunny	11:36	66.5	60.9	04*
23-Sep-22	Sunny	11:41	63.0	60.7	
23-Sep-22	Sunny	11:46	62.5	60.5	

(\*) +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	1 A
Date	weather	Time	<b>L</b> <sub>10</sub> dB(A)	<b>L</b> <sub>90</sub> dB(A)	L <sub>eq(30mins)</sub> dB(A) ^
06-Sep-22	Sunny	09:53	55.2	49.2	
06-Sep-22	Sunny	09:58	62.0	53.7	
06-Sep-22	Sunny	10:03	56.8	50.5	53*
06-Sep-22	Sunny	10:08	67.4	47.6	- 33
06-Sep-22	Sunny	10:13	52.1	47.6	
06-Sep-22	Sunny	10:18	52.1	47.4	
16-Sep-22	Sunny	09:41	53.1	45.2	
16-Sep-22	Sunny	09:46	59.5	49.1	
16-Sep-22	Sunny	09:51	51.9	46.5	62*
16-Sep-22	Sunny	09:56	50.4	45.7	62
16-Sep-22	Sunny	10:01	51.8	47.5	
16-Sep-22	Sunny	10:06	50.7	47.2	
22-Sep-22	Sunny	09:51	51.1	46.9	
22-Sep-22	Sunny	09:56	52.0	47.3	
22-Sep-22	Sunny	10:01	54.8	48.2	58
22-Sep-22	Sunny	10:06	50.1	46.5	36
22-Sep-22	Sunny	10:11	62.0	46.7	
22-Sep-22	Sunny	10:16	54.0	48.6	
28-Sep-22	Sunny	13:14	55.1	49.9	
28-Sep-22	Sunny	13:19	56.8	49.7	
28-Sep-22	Sunny	13:24	53.1	48.9	56
28-Sep-22	Sunny	13:29	52.9	49.2	] 30
28-Sep-22	Sunny	13:34	57.3	49.8	
28-Sep-22	Sunny	13:39	53.5	49.1	

### **Noise Measurement Results**

Station: NM6- House No.1 Sha Lo Wan

Date	Weather	Time	Measured	Measured	I 1971) A
Date	weather	Tille	$\mathbf{L}_{10}  dB(A)$	<b>L</b> <sub>90</sub> dB(A)	L <sub>eq(30mins)</sub> dB(A) ^
02-Sep-22	Sunny	10:52	64.4	54.2	
02-Sep-22	Sunny	10:57	65.7	58.2	
02-Sep-22	Sunny	11:02	66.3	58.8	- 66
02-Sep-22	Sunny	11:07	65.1	58.8	
02-Sep-22	Sunny	11:12	63.8	58.9	
02-Sep-22	Sunny	11:17	64.8	58.5	
09-Sep-22	Sunny	09:43	55.6	46.7	
09-Sep-22	Sunny	09:48	69.6	50.0	
09-Sep-22	Sunny	09:53	67.7	50.0	62*
09-Sep-22	Sunny	09:58	67.1	57.4	02
09-Sep-22	Sunny	10:03	70.1	50.6	
09-Sep-22	Sunny	10:08	72.0	51.4	
15-Sep-22	Sunny	09:39	66.0	53.8	
15-Sep-22	Sunny	09:44	65.5	52.8	
15-Sep-22	Sunny	09:49	63.9	52.7	65
15-Sep-22	Sunny	09:54	54.1	52.7	05
15-Sep-22	Sunny	09:59	60.7	52.9	
15-Sep-22	Sunny	10:04	59.8	53.8	
23-Sep-22	Sunny	13:51	59.9	58.6	
23-Sep-22	Sunny	13:56	59.4	52.0	
23-Sep-22	Sunny	14:01	59.6	51.9	61
23-Sep-22	Sunny	14:06	59.7	52.4	] 01
23-Sep-22	Sunny	14:11	58.9	52.2	
23-Sep-22	Sunny	14:16	58.4	52.7	

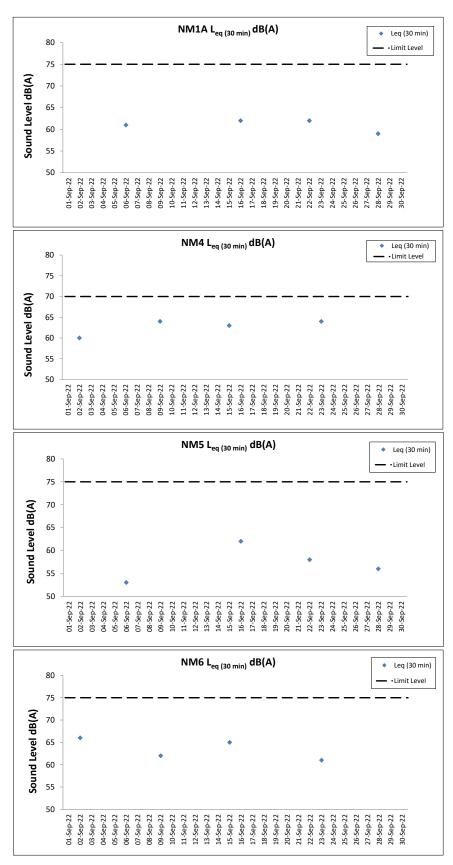
Remarks:

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.

<sup>(^) +3</sup>dB (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	sults	

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

Water Quality Monitoring Results on 01 September 22 during Mid-Ebb Tide

Monitoring	Weather	Sea	Sampling	Water	01 September 22	during wild-	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	th (m)	(m/s)	Direction	Value	Average	Value	Average	Value	Average		Average	Value		Value	DA	Value	DA	HK Grid (Northing)	HK Grid (Easting)
					Curtons	1.0	0.3	194	28.9	28.9	8.2	8.2	26.2	20.2	76.4	76.4	5.1		3.0		4			
					Surface	1.0	0.3	192	28.8	28.9	8.2	8.2	26.2 26.3	26.2	76.3	76.4	5.1	4.8	3.1		5			
C1	Cloudy	Madarata	15:22	8.5	Middle	4.3	0.2	189	27.9	27.9	8.2	8.2	30.8	30.8	68.7	68.7	4.5	4.8	4.3	5.3	4	4	815630	804257
CI	Cloudy	Moderate	13.22	0.5	ivildule	4.3	0.2	183	27.9	27.9	8.2	0.2	30.8	30.6	68.6	00.7	4.5		4.3	5.5	4	4	013030	004237
					Bottom	7.5	0.3	219	27.7	27.7	8.2	8.2	31.5	31.5	65.0	65.1	4.3	4.3	8.4		4			
					Dottom	7.5	0.3	217	27.7	21.1	8.2	0.2	31.5	31.3	65.2	03.1	4.3	4.5	8.6		3			
					Surface	1.0	0.1	162	29.3	29.3	8.1	8.1	23.8	23.8	75.2	75.2	5.1		5.0		2			
					Sullace	1.0	0.1	156	29.3	29.3	8.1	0.1	23.8	23.0	75.1	75.2	5.1	4.8	5.6		3			
C2	Cloudy	Moderate	14:17	11.3	Middle	5.7	0.1	173	28.5	28.5	8.1	8.1	27.9	27.9	67.5	67.5	4.5	4.0	10.8	9.3	3	4	825673	806932
02	Cloudy	Woderate	14.17	11.3	Wilddle	5.7	0.2	176	28.4	20.5	8.1	0.1	28.0	21.5	67.5	07.5	4.5		10.9	9.3	4	4	023073	000932
					Bottom	10.3	0.1	137	27.7	27.7	8.1	8.1	29.1	29.1	60.1	60.2	4.0	4.0	11.6		5			
					Dottom	10.3	0.1	134	27.7	21.1	8.1	0.1	29.1	25.1	60.3	00.2	4.0	4.0	11.7		4			
					Surface	1.0	0.4	69	27.5	27.6	8.1	8.1	26.4 26.4	26.4	60.6	60.6	4.1		3.6		7			
					Sullace	1.0	0.4	72	27.6	27.0	8.1	0.1	26.4	20.4	60.6	00.0	4.1	4.1	3.6		6			
С3	Misty	Moderate	15:38	7.6	Middle	3.8	0.4	75	27.6	27.6	8.1	8.1	26.4 26.4	26.4	60.1	60.2	4.1	7.1	4.7	4.6	6	7	822127	817811
03	iviisty	Woderate	13.30	7.0	Middle	3.8	0.4	78	27.6	27.0	8.1	0.1	26.4	20.4	60.2	00.2	4.1		4.6	4.0	6	,	022121	017011
					Bottom	6.6	0.4	63	27.6	27.6	8.1	8.1	26.4 26.3	26.4	60.9	62.7	4.2	4.3	5.5		7			
					Dottom	6.6	0.3	67	27.6	21.0	8.1	0.1		20.4	64.5	02.7	4.4	4.5	5.5		7			
					Surface	1.0	0.1	186	28.9	28.9	8.2	8.2	27.3 27.4	27.3	75.6	75.6	5.0		2.4		6			
					Carrace	1.0	0.1	185	28.9	20.0	8.2	0.2		27.0	75.5	70.0	5.0	4.7	2.5		5			
IM1	Cloudy	Moderate	15:05	7.0	Middle	3.5	0.1	200	28.5	28.5	8.2	8.2	28.4	28.5	67.0	67.0	4.4		3.1	6.3	5	5	818360	806468
	Cioday	Woderate	10.00	7.0	Wildaio	3.5	0.2	204	28.5	20.0	8.2	0.2	28.5	20.0	67.0	07.0	4.4		3.2	0.0	6	Ü	010000	000400
					Bottom	6.0	0.2	200	28.3	28.3	8.1	8.1	29.1	29.1	67.9	67.9	4.5	4.5	13.5		4			
					Bottom	6.0	0.2	198	28.3	20.0	8.1	0.1	29.1	20.1	67.9	07.0	4.5	4.0	13.5		5			
					Surface	1.0	0.1	180	29.1	29.1	8.2	8.2	25.9 25.9	25.9	76.4	76.3	5.1		2.2		6			
					Curiaco	1.0	0.1	174	29.0	20.1	8.2	0.2		20.0	76.2	70.0	5.1	4.9	2.3		8			
IM2	Cloudy	Moderate	15:00	7.4	Middle	3.7	0.2	157	28.5	28.5	8.2	8.2	28.3	28.3	70.2	69.9	4.7	4.0	5.4	4.9	7	7	819163	806230
IIVIZ	Cioday	Woderate	10.00	,,,	Wildaio	3.7	0.1	162	28.5	20.0	8.2	0.2		20.0	69.6	00.0	4.6		5.6	4.0	6	•	010100	000200
					Bottom	6.4	0.1	184	28.5	28.5	8.2	8.2	28.6 28.6	28.6	66.3	66.6	4.4	4.4	7.0		6			
					Dottom	6.4	0.2	180	28.5	20.0	8.2	0.2		20.0	66.8	00.0	4.4	-11	6.8		6			
					Surface	1.0	0.1	110	29.3	29.3	8.2	8.2	24.3	24.3	73.9	74.0	4.9		2.5		5			
					Odilado	1.0	0.2	105	29.3	20.0	8.2	0.2		24.0	74.0	7 7.0	5.0	4.7	2.7		4			
IM7	Cloudy	Moderate	14:41	8.1	Middle	4.1	0.2	95	28.7	28.7	8.2	8.2	27.7	27.7	68.2	68.2	4.5		6.9	6.6	5	5	821327	806851
11417	Siduay	.nodorate	17.71	0.1	IVIIGGIO	4.1	0.2	93	28.7	20.7	8.2	0.2	27.7	21.1	68.2	00.2	4.5		7.3	0.5	4	0	021027	000001
					Bottom	7.1	0.2	103	28.6	28.6	8.1	8.1	28.1	28.1	69.0	69.1	4.6	4.6	9.9		5			
DA: Denth-Aver					Dottom	7.1	0.2	95	28.6	20.0	8.1	0.1	28.1	20.1	69.1	00.1	4.6	4.0	10.0		5			

DA: Depth-Averaged

Water Quality Monitoring Results on 01 September 22 during Mid-Ebb Tide

water Quar		orning recou			or September 22	adming wild																		
Monitoring	Weather	Sea	Sampling	Water	Compling Desi	h (m)	Current Speed	Current	Water Te	emperature (°C)		pН	Salin	ity (ppt)		aturation (%)	Disso Oxy	olved ⁄gen	Turbidity	(NTU)	Suspende (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling Depi	11 (111)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.2	95	28.5	28.5	8.2	8.2	22.5	22.6	71.3	71.0	4.9		6.2		7			
j					Surrace	1.0	0.2	92	28.4	28.5	8.2	δ.∠	22.6	22.0	70.7	/1.0	4.9	4.6	6.3	]	6			
IM10	Misty	Moderate	14:19	9.0	Middle	4.5	0.2	100	27.8	27.8	8.2	8.2	25.7	25.7	62.5	62.5	4.3	4.0	7.7	7.4	5	6	822232	809816
IIVITO	iviioty	woudiate	14.13	3.0	Middle	4.5	0.3	96	27.8	21.0	8.2	0.2	25.7	23.1	62.5	02.5	4.3		7.8	7.4	6	U	022232	003010
					Bottom	8.0	0.2	93	28.0	28.1	8.1	8.1	25.3	25.2	70.0	70.7	4.8	4.8	8.2		4			
					Dottom	8.0	0.1	86	28.1	20.1	8.1	0.1	25.0	20.2	71.3	70.7	4.8	7.0	8.2		5			
					Surface	1.0	0.3	105	28.0	28.0	8.2	8.2	25.0	25.1	63.9	63.9	4.5		5.2	_	5			
j						1.0	0.3	100	27.9		8.2		25.2		63.9		4.5	4.5	5.2	1	6			
IM11	Misty	Moderate	14:36	8.8	Middle	4.4	0.3	83	27.7	27.7	8.2	8.2	25.9	25.9	64.2	64.2	4.5		6.8	6.4	7	7	821491	810533
j						4.4	0.3	77	27.6		8.2		26.0		64.2		4.6		6.8	4	8			
j					Bottom	7.8	0.3	102	27.8	27.9	8.2	8.2	26.0	26.0	65.1	65.3	4.4	4.4	7.1	-	8			
			1			7.8	0.3	95	27.9		8.2		26.0		65.4		4.4		7.0	1	8			
j					Surface	1.0	0.3	95	28.2	28.2	8.1	8.1	24.6	24.6	67.9	67.9	4.6	l	4.7	-	5			
j						1.0 3.4	0.3	94	28.2 28.2		8.1				67.9	<del>                                     </del>	4.6 4.6	4.6	4.8	1	6			
IM12	Misty	Moderate	14:40	6.8	Middle	3.4	0.3	85	28.2	28.2	8.1 8.1	8.1	24.8	24.8	67.9 68.1	68.0	4.6	l	5.8 5.7	5.8	6 7	7	821142	811499
						5.8	0.3	86 98	28.3		8.1		24.9		70.3		4.8		6.8	-	7			
					Bottom	5.8	0.3	93	28.4	28.4	8.1	8.1	24.9	24.9	72.0	71.2	4.0	4.9	6.8	-	8			
						1.0	0.0	30	28.7		8.1		24.0		77.0		5.2		3.9	1	7			
					Surface	1.0	0.0	36	28.6	28.7	8.1	8.1	24.1	24.0	78.0	77.5	5.3		3.9	1	6			
						2.6	0.0	34	20.0		-		-		70.0	1	-	5.3	- 3.9	1	-			
SR1A	Misty	Moderate	15:00	5.2	Middle	2.6	0.0	41	-	-		-		-	-	-	-	1		4.4		6	819977	812657
					5	4.2	-	32	28.2	05 :	8.1		24.7		84.8	05.7	5.7		4.9	1	5			
j					Bottom	4.2	-	32	28.6	28.4	8.1	8.1	23.7	24.2	88.3	86.6	6.0	5.9	5.0	1	6			
				Ì	Curtana	1.0	0.2	62	27.5	27.5	8.1	0.4	26.4	20.4	66.3	CC F	4.5		5.8		5			
j					Surface	1.0	0.2	66	27.5	27.5	8.1	8.1	26.5	26.4	66.7	66.5	4.5	1,,	5.7	1	6			
SR2	Mich	Moderate	15:17	5.6	Middle	-	0.3	36	-		-		-		-		-	4.5	-	6.0	-	e	821482	814178
SK2	Misty	Moderate	15:17	0.0	iviidale	-	0.3	28	-		-		-		-		-	<u> </u>	-	0.0	-	6	821482	814178
j					Bottom	4.6	0.3	43	27.5	27.5	8.0	8.0	26.6	26.6	75.6	76.7	5.2	5.3	6.1		6			
					DULLUITI	4.6	0.3	41	27.5	27.3	8.0	0.0	26.5	20.0	77.7	10.1	5.3	J.3	6.2		6			
					Surface	1.0	0.1	118	29.1	29.1	8.1	8.1	24.7	24.7	70.4	70.7	4.7		5.0		5			
					Ouriace	1.0	0.1	111	29.1	23.1	8.1	0.1	24.7	27.1	70.9	70.7	4.8	4.7	5.3	1	4			
SR3	Cloudy	Moderate	14:36	8.8	Middle	4.4	0.1	133	28.8	28.8	8.1	8.1	26.9	26.9	68.3	68.4	4.5	٠.,	8.8	7.8	4	4	822152	807587
0.10	Jioudy	Moderate	14.00	0.0	Wildalo	4.4	0.1	137	28.8	20.0	8.1	0.1	27.0	20.0	68.4	55.∓	4.6		8.9	1	5	7	022102	007007
j					Bottom	7.8	0.1	102	28.8	28.8	8.1	8.1	27.2	27.2	74.3	74.4	4.9	5.0	9.4	1	3			
						7.8	0.1	97	28.8		8.1		27.2		74.5		5.0		9.4	<u> </u>	4			
j					Surface	1.0	0.0	64	29.3	29.3	8.2	8.2	26.5	26.6	80.0	79.9	5.3	1	4.5	4	4			
						1.0	0.0	64	29.2		8.2		26.7		79.7		5.3	4.9	5.1	4	4			
SR4A	Cloudy	Moderate	15:49	8.8	Middle	4.4	0.0	75	28.8	28.8	8.1	8.1	27.8	27.8	68.0	68.0	4.5		10.5	8.8	4	5	817201	807799
ľ	•					4.4	0.1	81	28.8		8.1		27.8		67.9		4.5	-	10.5	-	5			
ľ					Bottom	7.8 7.8	0.0	91	28.9	28.9	8.1 8.1	8.1	27.9	27.9	68.7 68.9	68.8	4.5 4.6	4.6	11.0 11.0	-	5 5			
			1	<u> </u>				86	28.9									<u> </u>		<u> </u>				
ľ					Surface	1.0	-	-	28.8 28.7	28.8	8.1 8.1	8.1	24.7	24.7	75.7 75.9	75.8	5.1 5.1	1	3.4	1	<u>8</u> 9			
ľ						1.0	-	-	28.7		8.1		24.7		75.9		5.1	5.1	3.4	1	- 9			
SR8	Misty	Moderate	14:45	4.6	Middle	-	-	-	-	-	-	-	-	-	<u> </u>	-	-	l	-	4.0	-	9	820375	811639
ľ						3.6	-	-	28.6		8.1		24.8		81.2		5.5	<u> </u>	4.7	1	10			
j					Bottom	3.6	-	-	28.7	28.7	8.1	8.1	24.8	24.7	83.8	82.5	5.7	5.6	4.7	1	9			
į.			i	i	l	3.0		-	20.1		0.1		24.0		05.0	l	J.1		4.7		J			

Water Quality Monitoring Results on 01 September 22 during Mid-Flood Tide

Water Quar	,	ornig ittoca			01 September 22	during wid-		u 0																
Monitoring	Weather	Sea	Sampling	Water	Sampling Dept	h (m)	Current Speed	Current	Water To	emperature (°C)		pН	Salin	ity (ppt)		aturation (%)	Disso Oxy	olved /gen	Turbidity	(NTU)	Suspende (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Campling 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	44	28.7	28.7	8.0	8.0	25.7	25.7	74.8	74.8	5.0		2.5		5			
					Surface	1.0	0.4	47	28.7	20.7	8.0	0.0	25.7 25.7	23.7	74.7	74.0	5.0	4.9	2.6	1	5			
C1	Cloudy	Moderate	09:57	8.3	Middle	4.2	0.4	43	28.0	28.0	8.0	8.0	30.1	30.1	71.6	71.8	4.7	4.9	10.3	8.1	6	6	815626	804249
O1	Cloudy	Moderate	09.57	0.5	Wildale	4.2	0.4	40	28.0	20.0	8.0	0.0	30.1	30.1	72.0	71.0	4.8		10.3	0.1	6	O	013020	004243
					Bottom	7.3	0.4	43	28.0	28.0	8.0	8.0	30.4	30.4	74.1	74.3	4.9	4.9	11.8		7			
					DOLLOITI	7.3	0.4	48	28.0	20.0	8.0	0.0	30.4	30.4	74.4	74.3	4.9	4.5	11.1		6			
					Surface	1.0	0.4	341	28.9	28.9	8.0	8.0	24.7	24.7	66.9	66.8	4.5		2.9		8			
					Odnace	1.0	0.4	345	28.9	20.5	8.0	0.0	24.8	24.7	66.7	00.0	4.5	4.5	2.9		9			
C2	Cloudy	Moderate	11:01	11.7	Middle	5.9	0.4	357	28.9	28.9	8.0	8.0	25.3	25.3	65.4	65.4	4.4		3.7	5.1	10	9	825692	806954
02	Cidady	moderate			madio	5.9	0.4	351	28.9	20.0	8.0	0.0	25.3	20.0	65.3	00	4.4		3.7	0	9	ŭ	020002	000001
					Bottom	10.7	0.4	329	28.8	28.8	8.0	8.0	25.6 25.6	25.6	60.9	60.8	4.1	4.1	8.9		10			
						10.7	0.4	327	28.8		8.0				60.6		4.1		8.6		10			
					Surface	1.0	0.3	263	28.6	28.6	8.2	8.2	22.4	22.5	71.4	71.2	4.9		1.8	4	4			
						1.0	0.3	256	28.5		8.2				70.9		4.9	4.6	1.7	_	3			
C3	Misty	Moderate	08:40	9.4	Middle	4.7	0.3	269 273	27.9 27.8	27.9	8.2 8.2	8.2	25.5 25.6	25.5	61.5 61.6	61.6	4.2		2.7	2.8	3	3	822131	817791
						8.4	0.3	279	27.7		8.2				65.2		4.4		3.9	1	2			
					Bottom	8.4	0.4	276	27.7	27.7	8.2	8.2	26.1 26.1	26.1	65.2	65.2	4.4	4.4	3.9	1	3			
						1.0	0.3	14	28.9		8.1		26.6		77.1		5.1		1.2	1	3			
					Surface	1.0	0.3	7	28.8	28.9	8.1	8.1	26.6	26.6	77.0	77.1	5.1		1.2	1	3			
	O					3.5	0.2	31	28.5	00.5	8.0		28.0		67.3		4.5	4.8	7.4		4		0.4.0070	
IM1	Cloudy	Moderate	10:12	6.9	Middle	3.5	0.2	32	28.5	28.5	8.0	8.0	28.1	28.0	67.0	67.2	4.5		7.4	5.7	4	4	818372	806437
					Bottom	5.9	0.3	36	28.4	28.4	8.0	8.0	28.8	28.8	64.0	64.0	4.2	4.2	8.7	1	4			
					Bollom	5.9	0.3	34	28.4	28.4	8.0	8.0	28.8	28.8	63.9	64.0	4.2	4.2	8.3		4			
					Surface	1.0	0.3	4	28.9	28.9	8.1	8.1	26.9	26.9	73.1	73.0	4.9		3.5		4			
					Odnace	1.0	0.3	6	28.8	20.5	8.1	0.1	26.9	20.3	72.9	75.0	4.8	4.7	3.5		5			
IM2	Cloudy	Moderate	10:19	7.4	Middle	3.7	0.3	26	28.6	28.6	8.0	8.0	27.6	27.6	69.9	69.8	4.6		5.8	5.3	6	6	819187	806256
	Cicacy	moderate	10.10	***		3.7	0.3	22	28.6	20.0	8.0	0.0		21.0	69.7	00.0	4.6		5.6	0.0	5	Ŭ	0.0.0.	000200
					Bottom	6.4	0.3	356	28.5	28.5	8.0	8.0	28.1	28.1	69.2	69.3	4.6	4.6	6.6		6			
						6.4	0.4	354	28.5		8.0				69.4		4.6		6.6		7			
					Surface	1.0	0.2	2	29.2	29.2	8.0	8.0	24.0	24.1	71.1	71.0	4.8		1.9	4	4			
						1.0	0.2	359	29.1		8.0				70.8	-	4.8	4.7	2.0	-	4			
IM7	Cloudy	Moderate	10:36	8.4	Middle	4.2	0.3	13 14	28.8 28.8	28.8	8.0	8.0	24.9	24.9	68.1 68.0	68.1	4.6 4.6		5.1 5.4	5.4	4	5	821330	806838
						7.4	0.3	359	28.8		8.0				67.6		4.6		8.9	1	5 5			
					Bottom	7.4	0.2	355	28.7	28.7	8.0	8.0	27.4	27.3	67.8	67.7	4.5	4.5	8.9	1	6			
			1			1.4	0.5	ააა	20.1		0.0	<u> </u>	21.3		07.8	l	4.0		0.9	1	U			l

DA: Depth-Averaged

Water Quality Monitoring Results on 01 September 22 during Mid-Flood Tide

		lorning ixeou			OT OCPICITION ZE	during ima	Current	1			1				DO S	aturation	Disso	lved			Suspende	d Solids	l	
Monitoring	Weather	Sea	Sampling	Water			Speed	Current	Water Te	emperature (°C)		pН	Salin	ity (ppt)		(%)	Oxy		Turbidity	(NTU)	(mg/		Coordinate	Coordinate
Station	Condition	Condition	Time	Depth (m)	Sampling Dep	th (m)	(m/s)	Direction	Value	Average	Value	Average	Value	Average		Average	Value	_	Value	DA	Value	DA	HK Grid (Northing)	HK Grid (Easting)
					0	1.0	0.3	281	28.4	00.4	8.0	0.0	23.3	00.0	70.9	70.0	4.8		5.3		4			
					Surface	1.0	0.3	287	28.4	28.4	8.0	8.0	23.4	23.3	70.8	70.9	4.8	4.0	5.2		3			
IMAO	Minter	Madazata	00.20	0.4	Middle	4.2	0.3	289	28.3	28.3	8.0	0.0	23.6	22.0	70.8	70.0	4.8	4.8	6.0	C 4	4	4	822245	000004
IM10	Misty	Moderate	09:36	8.4	ivildale	4.2	0.4	281	28.3	28.3	8.0	8.0	23.6	23.6	71.0	70.9	4.9		6.1	6.1	4	4	822245	809834
					Bottom	7.4	0.3	289	28.3	28.3	8.0	8.0	23.7	23.7	74.8	75.7	5.1	5.2	7.1		5			
					DOLLOTTI	7.4	0.3	293	28.3	20.3	8.0	6.0	23.7	23.7	76.6	75.7	5.2	5.2	7.1		4			
					Surface	1.0	0.4	262	28.5	28.5	8.0	8.0	23.1	23.2	71.9	71.9	4.9		2.0		4			
					Sulface	1.0	0.4	259	28.5	20.5	8.0	0.0	23.2	25.2	71.8	71.9	4.9	4.9	2.1		3			
IM11	Misty	Moderate	09:31	9.4	Middle	4.7	0.4	292	28.3	28.3	8.0	8.0	23.7	23.7	71.8	71.8	4.9	4.5	2.8	2.9	4	5	821511	810562
	Wiloty	Wioderate	00.01	0.4	Iviidalo	4.7	0.4	289	28.3	20.0	8.0	0.0	23.7	20.7	71.8	71.0	4.9		2.8	2.0	5	o	021011	010002
					Bottom	8.4	0.4	276	28.2	28.2	8.0	8.0	24.3	24.3	77.5	78.9	5.3	5.4	4.0		6			
					Bottom	8.4	0.4	275	28.2	20.2	8.0	0.0	24.3	24.0	80.2	70.0	5.5	0.4	4.0		5			
					Surface	1.0	0.4	286	28.2	28.2	8.0	8.0	24.3	24.3	68.7	68.8	4.7		5.5		6			
						1.0	0.4	278	28.2		8.0		24.3		68.8		4.7	4.8	5.5		5			
IM12	Misty	Moderate	09:26	8.0	Middle	4.0	0.4	300	28.1	28.1	8.0	8.0	24.6	24.6	70.2	70.2	4.8		6.6	6.6	5	5	821175	811523
						4.0	0.5	296	28.1		8.0		24.6		70.2		4.8		6.5		5			
					Bottom	7.0	0.4	271	28.1	28.1	8.0	8.0	24.6	24.6	73.4	74.7	5.0	5.1	7.9		5			
					<u> </u>	7.0	0.4	278	28.1		8.0		24.5		76.0		5.2		7.9		4			
					Surface	1.0	0.0	199	28.0	28.0	8.0	8.0	23.4	23.4	75.9	76.3	5.2		2.0		5			
						1.0	0.0	192	27.9		8.0		23.5		76.6		5.3	5.3	2.1		4			
SR1A	Misty	Moderate	09:07	4.0	Middle	2.0	0.0	188	-	-	_	-	-	-	-	-	-		-	2.5	-	4	819982	812653
						2.0	0.0	193	-		-		-		-		-		-		-			
					Bottom	3.0	0.1	184	27.6	27.6	8.0	8.0	23.6	23.6	84.7	85.5	5.9 6.0	6.0	3.0		3			
		1				3.0	0.1	190	27.5						86.3									
					Surface	1.0	0.2	219 221	28.5 28.6	28.6	7.9	7.9	23.6	23.6	70.1 70.4	70.3	4.8		7.2 7.1		3 4			
						1.0	0.1	239	-		7.9		- 23.1		70.4		4.0	4.8	-		-			
SR2	Misty	Moderate	08:55	5.0	Middle	-	0.1	245	-	-	<del>-</del>	-		-	-	-	-			7.6		5	821477	814149
						4.0	0.1	225	28.8		7.9		23.8		73.3		5.0		8.1		6			
					Bottom	4.0	0.2	220	28.8	28.8	7.9	7.9	23.8	23.8	74.5	73.9	5.0	5.0	8.0		5			
						1.0	0.4	334	29.3		8.0		23.8		71.5		4.8		1.4		9			
					Surface	1.0	0.4	335	29.3	29.3	8.0	8.0	23.8	23.8	71.5	71.5	4.8		1.4		8			
						4.8	0.4	350	28.9		8.0		25.0		67.1		4.5	4.7	7.4		6			
SR3	Cloudy	Moderate	10:42	9.6	Middle	4.8	0.4	353	28.9	28.9	8.0	8.0	25.1	25.1	67.2	67.2	4.5		7.7	5.9	5	6	822164	807558
					_	8.6	0.3	322	28.9		8.0		25.3		67.7		4.5		8.7		5			
					Bottom	8.6	0.3	320	28.9	28.9	7.9	7.9	25.2	25.3	67.8	67.8	4.6	4.6	8.7		5			
						1.0	0.0	176	29.0		8.0		25.5		69.3		4.6		5.3		4			
					Surface	1.0	0.0	170	29.0	29.0	8.0	8.0	25.5	25.5	69.3	69.3	4.6		5.3		4			
SR4A	Oleverte	NA - da	00.07	0.4	N.C. L.U.	4.6	-	201	28.9	20.0	7.9	7.0	25.8	05.0	68.1	00.4	4.6	4.6	8.7	0.4	5	-	047400	007000
SR4A	Cloudy	Moderate	09:37	9.1	Middle	4.6	-	202	28.9	28.9	7.9	7.9	25.8	25.8	68.0	68.1	4.5		8.7	8.4	4	5	817182	807826
					Detter	8.1	0.0	177	28.5	20.0	7.9	7.0	27.9	27.8	67.0	C7.4	4.5	4.5	11.2		6			
					Bottom	8.1	0.1	170	28.6	28.6	7.9	7.9	27.8	21.8	67.1	67.1	4.5	4.5	11.2		6			
					Surface	1.0	-	-	28.6	28.6	8.0	8.0	23.0	23.0	75.9	76.0	5.2		4.2		6	_		
					Sullace	1.0	-	-	28.6	20.0	8.0	0.0	23.0	23.0	76.0	76.0	5.2	5.2	4.1		5			
SR8	Misty	Moderate	09:22	5.4	Middle	-	-	-	-		-		-		-		-	5.2	-	5.1	-	5	820391	811619
ONO	iviioty	iviouerate	03.22	5.4	iviidale	-	-	-	-		-		-		-		-		-	J. I	-	J	020331	011019
					Bottom	4.4	-	-	28.4	28.4	8.0	8.0	23.2	23.1	82.9	83.9	5.7	5.8	5.9		5			
					Dottom	4.4	-	-	28.4	20.4	8.0	0.0	23.1	20.1	84.8	00.0	5.8	5.0	6.0		5			

DA: Depth-Averaged

Water Quality Monitoring Results on 03 September 22 during Mid-Ebb Tide

Monitoring	Weather	Sea	Sampling	Water	Sampling Depti		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)	Gampling 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	0.1	217	27.8	27.8	8.1	8.1	29.2	29.3	84.7	84.3	5.7		4.0		3			
						1.0	0.1	224	27.8		8.1		29.3		83.8		5.6	5.3	4.1	_	2			
C1	Misty	Calm	17:20	8.4	Middle	4.2	0.1	216	27.7	27.7	8.1	8.1	29.6	29.6	78.0	75.2	5.2		5.4	5.5	<2	2	815634	804225
	,					4.2	0.1	209	27.6		8.1		29.7		72.4		4.8		5.4	1	<2			
					Bottom	7.4	0.1	210	27.7	27.8	8.1	8.1	31.5	31.4	75.2	77.3	5.0	5.1	7.0	4	<2			
						7.4	0.1	216	27.8		8.1		31.3		79.4		5.2		7.0		<2			
					Surface	1.0	0.1	<u>6</u> 8	28.0 28.0	28.0	8.0	8.0	28.4	28.4	77.2 77.0	77.1	5.2 5.2		1.8	4	5 5			
						5.5	0.1	358	27.9						68.1		4.6	4.9	2.5	1	4			
C2	Misty	Calm	16:07	11.0	Middle	5.5	0.1	356	27.9	27.9	8.0	8.0	28.8	28.8	68.0	68.1	4.6		2.5	2.6		4	825675	806932
						10.0	0.1	0	27.9		8.0		28.7		69.1		4.6		3.6	-	2			
					Bottom	10.0	0.1	4	27.9	27.9	8.0	8.0	28.6	28.7	70.0	69.6	4.7	4.7	3.6	1	2			
						1.0	0.1	73	26.5		8.0		29.4		67.2		4.6		1.2		2			
					Surface	1.0	0.2	73	26.5	26.5	8.0	8.0	29.3	29.3	67.3	67.3	4.6		1.2	1	3			
						6.0	0.1	78	26.4		8.0		29.5		66.3		4.5	4.6	1.4	1	4			
C3	Sunny	Rough	17:57	11.9	Middle	6.0	0.1	77	26.4	26.4	8.0	8.0	29.5	29.5	66.2	66.3	4.5		1.4	1.8	3	3	822107	817779
						10.9	0.1	93	25.9		8.0		30.1		61.2		4.2		2.8	1	4			
					Bottom	10.9	0.1	99	25.9	25.9	8.0	8.0	30.1	30.1	61.3	61.3	4.2	4.2	2.8	1	4			
					0	1.0	0.0	186	28.0	00.0	8.1	0.4	29.6	00.0	87.1	00.0	5.8		6.4		3			
					Surface	1.0	0.1	192	27.9	28.0	8.1	8.1	29.7	29.6	86.4	86.8	5.7	5.6	6.3	1	4			
IM1	Misty	Calm	17:11	6.8	Middle	3.4	0.1	192	27.9	27.9	8.1	8.1	29.8	29.9	82.3	80.4	5.5	0.0	7.0	7.5	3	3	818374	806460
IIVI I	iviisty	Caim	17:11	0.8	Middle	3.4	0.1	187	27.8	27.9	8.1	8.1	29.9	29.9	78.5	80.4	5.2		7.0	7.5	2	3	818374	806460
					Bottom	5.8	0.1	206	27.8	27.8	8.1	8.1	30.0	30.0	78.5	79.1	5.2	5.3	9.0		2			
					Bottom	5.8	0.0	200	27.8	27.0	8.1	0.1	30.0	30.0	79.6	79.1	5.3	5.5	9.0		2			
					Surface	1.0	0.1	179	28.1	28.1	8.1	8.1	29.5 29.6	29.6	95.2	95.0	6.3		2.1		<2			
					Gundoo	1.0	0.1	180	28.1	20.1	8.1	0.1		20.0	94.7	50.0	6.3	6.0	2.2		<2			
IM2	Misty	Calm	17:04	7.0	Middle	3.5	0.1	165	27.9	27.9	8.1	8.1	29.8	29.8	87.3	84.7	5.8	0.0	4.0	3.6	2	2	819168	806238
11412	Wiloty	Odim	17.04	7.0	Wildale	3.5	0.0	166	27.9	27.0	8.1	0.1	29.9	20.0	82.0	04.7	5.5		4.0	0.0	2	-	010100	000200
					Bottom	6.0	0.0	171	27.9	28.0	8.0	8.0	29.8	29.7	86.5	88.0	5.7	5.9	4.7		3			
					20110111	6.0	0.0	167	28.0	20.0	8.0	0.0	29.6	20	89.5	00.0	6.0	0.0	4.6		2			
					Surface	1.0	0.1	133	28.2	28.2	8.0	8.0	28.4	28.5	81.6	81.5	5.4		4.5	1	2			
						1.0	0.1	136	28.1		8.0		28.6		81.4		5.4	5.3	4.6	1	4			
IM7	Misty	Calm	16:43	9.2	Middle	4.6	0.0	154	28.0	28.0	8.0	8.0	29.1	29.1	76.6	76.4	5.1		5.1	5.3	3	3	821357	806817
						4.6	0.0	155	28.0		8.0		29.1	-	76.1		5.1		5.1	1	4			
					Bottom	8.2	0.1	124	28.0	28.0	8.0	8.0	29.6	29.5	80.3	83.0	5.3	5.5	6.1	4	2			
DA: Donth Avor			<u> </u>		1	8.2	0.1	131	28.0		8.0		29.4		85.7		5.7		6.2		2			

DA: Depth-Averaged

Water Quality Monitoring Results on 03 September 22 during Mid-Ebb Tide

	Weather	Sea	Sampling	Water	CO Coptember 22	auring ima	Current		Water Te	emperature (°C)		рН	Salin	ity (ppt)	DO S	aturation	Disso		Turbidity	(NITLI)	Suspende		Coordinate	Coordinate
Monitoring	Weather	Sea	Sampling	vvalei	Sampling Dep	th (m)	Speed	Current	water re	sinperature ( C)		pri	Jaiii	ity (ppt)		(%)	Оху	gen	Turblaity	(1410)	(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	0.1	288	27.4	27.4	8.1	0.4	27.0	27.0	71.3	71.3	4.9		3.1		<2			
					Surface	1.0	0.1	293	27.4	27.4	8.1	8.1	27.0	27.0	71.2	71.3	4.9	4.6	3.2		<2			
IM10	Sunny	Rough	16:05	9.2	Middle	4.6	0.1	302	27.0	27.0	8.1	8.1	27.3	27.3	63.3	63.3	4.3	4.0	6.4	6.3	2	3	822254	809857
IIVITO	Outliny	rtougn	10.00	3.2	Wildale	4.6	0.1	299	27.0	27.0	8.1	0.1	27.3	21.5	63.2	00.0	4.3		6.5	0.5	3	3	022254	003037
					Bottom	8.2	0.0	316	26.9	26.9	8.1	8.1	27.4	27.4	61.1	61.1	4.2	4.2	9.3		3			
						8.2	0.0	310	26.9		8.1	•	27.4		61.0	•	4.2		9.3		4			
					Surface	1.0	0.0	286	27.5	27.5	8.0	8.0	27.0	27.0	74.7	74.7	5.1		2.4		6			
						1.0	0.0	286	27.5		8.0		27.0		74.6		5.1	4.7	2.4		5			
IM11	Sunny	Rough	16:13	8.7	Middle	4.4	0.0	285	27.3	27.3	8.0	8.0	27.1	27.1	61.5 61.6	61.6	4.2		3.0	3.6	4	4	821504	810530
						7.7	0.0	291 298	27.3 27.0		8.0		_				4.2		5.4		4			
					Bottom	7.7	0.1	302	27.0	27.0	8.0	8.0	27.5	27.5	65.0 65.1	65.1	4.4	4.5	5.4		3			
						1.0	0.0	78	27.3		8.0		27.2		70.6		4.8		3.0		5			
					Surface	1.0	0.0	73	27.3	27.3	8.0	8.0	27.2	27.2	70.6	70.6	4.8		3.1		5			
	_					4.5	0.0	105	26.9		8.0		27.8		69.7		4.8	4.8	5.8		6			
IM12	Sunny	Rough	16:23	8.9	Middle	4.5	0.1	106	26.9	26.9	8.0	8.0	27.8	27.8	69.7	69.7	4.8		5.8	5.1	5	6	821180	811504
					5	7.9	0.0	111	26.8		8.0		27.9		61.4	04.5	4.2		6.5		6			
					Bottom	7.9	0.0	117	26.8	26.8	8.0	8.0	27.9	27.9	61.5	61.5	4.2	4.2	6.5		6			
					Surface	1.0	0.0	6	28.0	20.0	8.0	0.0	26.1	20.4	69.5	CO F	4.7		4.7		5			
					Surface	1.0	0.0	9	28.0	28.0	8.0	8.0	26.1	26.1	69.5	69.5	4.7	4.7	4.6		5			
SR1A	Sunny	Moderate	17:05	4.6	Middle	2.3	0.0	20	-	_	-	_	-	_	-	_	-	4.7	-	6.2	-	5	819982	812664
0	Cumny	moderate	11.00		madio	2.3	0.0	27	-		-		-		-		-		-	0.2	-	Ü	0.0002	0.200.
					Bottom	3.6	-	20	27.5	27.5	8.0	8.0	26.7	26.7	65.0	65.1	4.4	4.4	7.8		4			
						3.6	0.0	12	27.5		8.0		26.7		65.1		4.4		7.8		4			
					Surface	1.0	0.1	26	27.3	27.3	8.0	8.0	27.4	27.4	71.3	71.3	4.9		3.3		5			
						1.0	0.1	19 22	27.3		8.0		- 27.4		71.3		4.9	4.9	3.3		4			
SR2	Sunny	Rough	17:25	4.8	Middle	-	0.1	29	-	-	-	-	-	-	-	-	-		-	3.2	-	5	821463	814157
						3.8	0.0	47	27.3		8.0		27.4		72.9		5.0		3.2		5			
					Bottom	3.8	0.1	45	27.3	27.3	8.0	8.0	27.4	27.4	73.0	73.0	5.0	5.0	3.1		5			
						1.0	0.1	59	28.2		8.0		28.1		80.8		5.4		1.7		6			
					Surface	1.0	0.1	56	28.2	28.2	8.0	8.0	28.1	28.1	81.0	80.9	5.4	5.5	1.7		8			
SR3	Misty	Calm	16:37	8.2	Middle	4.1	0.0	36	28.2	28.2	8.0	9.0	28.1	28.1	81.9	82.0	5.5	5.5	2.1	2.3	4	6	822158	807558
SKS	IVIISTA	Callii	10.37	0.2	ivildale	4.1	0.0	38	28.2	20.2	8.0	8.0	28.1	20.1	82.0	02.0	5.5		2.1	2.3	6	6	022130	007336
					Bottom	7.2	0.0	31	28.2	28.2	8.0	8.0	28.0	28.0	84.4	84.8	5.6	5.7	3.3		5			
					Dottom	7.2	0.0	31	28.2	20.2	8.0	0.0	28.0	20.0	85.1	04.0	5.7	0.7	3.1		5			
					Surface	1.0	0.0	294	28.3	28.3	8.1	8.1	29.3	29.3	93.5	93.5	6.2		4.3		2			
						1.0	0.0	287	28.3		8.1		29.3		93.5		6.2	6.2	4.2		2			
SR4A	Misty	Calm	17:31	9.0	Middle	4.5 4.5	0.0	301	28.3	28.3	8.1	8.1	29.3	29.3	93.8	93.9	6.2		5.5	5.5	3	3	817168	807821
					<del></del>	4.5 8.0	0.0	301 276	28.3		8.1				94.0	<b> </b>	6.2		5.4		2 4			
					Bottom	8.0	0.0	277	28.3 28.3	28.3	8.1 8.1	8.1	29.2	29.2	95.2 95.5	95.4	6.3	6.3	6.7 6.8		3			
						1.0	-	-	28.6		8.0		26.2		74.0		5.0		4.1		4			
					Surface	1.0	-	-	28.5	28.6	8.0	8.0	26.2	26.2	74.1	74.1	5.0		4.1	ł	5			
000			40.05			-	-	-	-		-				-		-	5.0	-	1	-			
SR8	Sunny	Moderate	16:35	5.3	Middle	-	-	-	-	-	-	-	-	-	-	1 -	-		-	4.7	-	4	820380	811601
					Bottom	4.3	-	-	27.1	27.1	8.0	8.0	27.6	27.6	64.7	64.8	4.4	1.1	5.2	1	2			
					DULLOTTI	4.3	-	-	27.1	21.1	8.0	0.0	27.6	21.0	64.8	04.8	4.4	4.4	5.2		3			

Water Quality Monitoring Results on 03 September 22 during Mid-Flood Tide

Miles   Mile	water Qua		ornig ittoou			03 September 22	aaring iiia		40																
Condition   Cond		Weather	Sea	Sampling	Water	Sampling Dent	h (m)			Water Te	emperature (°C)	рН	1	Salin	ity (ppt)					Turbidity	(NTU)				Coordinate
Surface 1.0 0.4 20 27.5 27.5 8.0 8.0 29.0 44.8 77.6 74.7 5.2 5. 4.8 4.8 7.8 4.4 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8	Station	Condition	Condition	Time	Depth (m)	Sampling Dept		(m/s)	Direction	Value	Average	Value A	verage	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA		(Easting)
C1 Misty Calm 12.46 8.0 Midde 4.0 0.3 31 27.5 27.5 8.0 8.0 8.0 30.0 30.0 78.5 77.6 5.1 5.2 6.5 5.4 4.4 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4						Surface	1.0	0.3	18	27.7	27.7	8.0	9.0	29.8	20.9	81.5	70.7			4.4		3		-	
C1 Mety Caim						Surface	1.0	0.4	20	27.6	21.1	8.0	6.0	29.9	29.0	77.8	19.1	5.2	E 2	4.5	1	4			
Bettom 7.0 0.3 40 27.5 27.5 8.0 8.0 8.0 30.1 75.7 5.1 5.1 5.4 3 2 4 5.5 6.1 2 4 5 5 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0	C1	Micty	Calm	12:46	9.0	Middlo	4.0	0.3	31	27.5	27.5	8.0	9.0	30.0	20.0	76.2	76.0	5.1	5.2	5.3	5.3	4	2	915616	904267
Posture   Post	Ci	iviisty	Callii	12.40	6.0	ivildale	4.0	0.3	32	27.5	27.5	8.0	6.0	30.0	30.0	75.7	76.0	5.1		5.4	5.5	3	3	010010	004207
C2 Misty Calm 13.51 P.8 Surface 1.0 0.3 340 28.1 28.1 8.0 8.0 28.2 77.2 7.7 5.2 2.4 4.5 4.1 2.1 2.5 4.0 4.9 1.0 1.0 0.2 345 28.0 28.1 8.0 8.0 28.2 77.2 7.7 5.2 2.4 4.5 1.0 2.1 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1						Rottom		0.3	40		27.5		9.0	30.1	20.0		77.6		5.2			2			
C2						DOLLOITI	7.0	0.3	44	27.5	27.5	8.0	6.0	30.0	30.0	78.3	11.0	5.2	5.2	6.1		2			
C2 Misty Calm 13.51 9.8 Middle 4.9 0.3 337 279 279 8.0 80 28.7 8.8 177, 17.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1						Surface	1.0	0.3	340	28.1	20.1		9.0	28.2	20.2	77.2	77.0			2.4		4			
C2						Sulface		0.2		28.0	20.1	8.0	0.0	28.3	20.2	76.8	77.0	5.1	5.1	2.6		5			
Bottom 8.8 0.3 943 27.9 8.0 8.0 8.0 28.1 27.7 27.0 4.9 0.3 1.0 6.6 6.0 27.8 8.0 8.0 8.0 29.1 29.1 67.2 67.4 4.5 4.5 4.1 7.7 7.0 8.0 8.0 8.0 29.1 29.1 67.5 67.4 4.5 4.5 4.1 7.7 7.0 8.0 8.0 8.0 29.1 29.1 67.5 67.6 67.6 67.6 67.6 67.6 67.6 67.6	C2	Miety	Calm	13-51	9.8	Middle		0.3			27.0		8.0	28.6	28.6		73.5		5.1		3.2	5	6	825705	806052
Surface   10.50   Surface	02	Wilsty	Cairi	10.01	3.0	Wildale			343		21.5	8.0	0.0		20.0		75.5	4.9		3.1	5.2	6	U	023703	000332
Sunny Moderate 10:59 9.9 Surface 1.0 0.3 281 271 27.1 8.0 8.0 29.1 67.5 4.5 4.5 4.1 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8						Bottom			7		27.8		8.0	29.1	29.1		67.4		45						
Sunny   Moderate   10.59   9.9   Middle   5.0   0.2   255   25.8   8.0   8.0   27.7   27.7   61.3   61.3   4.2   4.4   1.5   5.5   5.8   5.5   5.5   5.8   5.5						Bottom					27.0		0.0		20.1		07.4		4.0			7			
C3   Sunny   Moderate   10.59   9.9   Middle   5.0   0.2   255   26.8   26.8   8.0   8.0   27.7   27.7   61.3   61.3   4.2   1.2   2.8   5   5   822086   817933   817933   81893   817933   818933   818933   818933   818933   818933   818933   818933   818933   818933   818933   818933   818933   818						Surface					27.1		8.0	26.9	26.9		67.6				1				
Misty   Calm   13:04   7.6   Middle   13:26   8.2   Middle   7.6   Middle   13:26   8.2																			4.4		4				
Bottom	C3	Sunny	Moderate	10:59	9.9	Middle					26.8		8.0	27.7	27.7		61.3				2.8		5	822086	817793
Misty   Calm   12:58   6.0   Surface   1.0   0.2   29   27.9   27.7   27.7   8.0   8.0   8.0   29.6   29.8   8.0   29.8   8.0   29.6   87.2   5.8   6.0   8.0   29.6   29.6   29.8   27.9   27.9   27.9   27.9   27.7   2		,																			1				
Misty   Calm   12:58   6.0   Surface   1.0   0.2   2.9   27.9   27.9   8.0   8.0   2.96   29.6   29.6   88.6   87.9   5.9   5.8   5.6   7.5   5.8   5.6   7.5   7.5   5.8   7.5						Bottom					25.9		8.0	29.6	29.6	52.9	52.9		3.6	5.5	4				
Misty   Calm   12:58   6.0   Middle   1.0   0.2   34   27.9   27.9   8.0   8.0   29.6   29.0   87.2   87.9   5.8   5.6   7.5   5.6   8.7   8.7   8.0   8.0   29.9   8.0   8.0   29.9   8.0   8.0   29.9   8.0   8.0   8.0   5.4   8.7   8.0   8.0   8.0   29.9   8.0   8.0   8.0   5.4   8.7   8.0   8.0   8.0   8.0   5.4   8.7   8.0   8.0   8.0   8.0   5.4   8.7   8.0   8.0   8.0   8.0   5.4   8.7   8.0   8.0   8.0   8.0   5.4   8.7   8.0   8.0   8.0   8.0   5.4   8.7   8.0   8.0   8.0   5.4   8.7   8.0   8.0   8.0   5.4   8.7   8.0   8.0   8.0   5.4   8.7   8.0   8.0   8.0   5.4   8.7   8.0   8.0   8.0   5.4   8.7   8.0   8.0   8.0   5.4   8.7   8.0   8.0   8.0   5.4   8.7   8.0   8.0   8.0   8.0   5.4   8.7   8.0   8.0   8.0   8.0   5.4   8.7   8.0   8.0   8.0   8.0   5.4   8.7   8.0																									
Misty   Calm   12:58   6.0   Middle   3.0   0.1   35   27.7   27.7   8.0   8.0   29.8   29.9   80.8   80.9   5.4   8.8   8.4   4   818335   806445						Surface					27.9		8.0	29.6	29.6		87.9				4				
Misty   Calm   13:04   Calm   13:05   Calm   13:06   Calm   13:0																			5.6		-				
Bottom	IM1	Misty	Calm	12:58	6.0	Middle					27.7		8.0	29.8	29.9		80.9				8.4		4	818335	806445
Misty   Calm   13:04   7.6   Surface   1.0   0.2   5   27.9   27.8   8.1   8.1   29.8   30.0   29.9   90.1   88.9   5.8   5.8   9.0   6   6   6   6   6   6   6   6   6																					1				
Misty   Calm   13:04   7.6   Surface   1.0   0.2   5   27.9   27.8   27.9   8.1   8.1   29.8   30.0   29.9   90.1   88.9   5						Bottom					27.7		8.0	20.7	29.8		85.9		5.8		1				
Misty   Calm   13:04   7.6   Middle   1.0   0.2   9   27.8   27.9   8.1   8.1   30.0   29.9   88.9   89.5   5.9   5.6   6.4   5.5   5   819163   806232																									
IM2         Misty         Calm         13:04         7.6         Middle         3.8         0.2         8         27.7         27.7         8.1         8.1         30.3         30.4         78.5         78.3         5.2         5.0         6.4         6.5         5         5         819163         806232           IM7         Misty         Calm         13:26         8.2         Middle         3.8         0.2         8         27.7         27.7         8.1         8.1         30.3         30.4         78.5         78.3         5.2         5.0         6.5         5         5         5         5         819163         806232           Bottom         6.6         0.2         7         27.7         27.7         8.0         8.0         30.5         76.8         75.7         5.0         6.8         5         5         819163         806232           IM7         Misty         Calm         13:26         8.2         Surface         1.0         0.2         358         28.2         28.2         8.0         8.0         28.2         28.2         28.2         28.2         28.2         28.2         28.2         28.2         28.2         28.2         28						Surface			_		27.9		8.1		29.9		89.5				1				
Misty Calm 13:04 7.6 Middle 3.8 0.3 14 27.7 27.7 8.1 8.1 30.4 78.1 78.3 5.2 6.5 6.5 6.3 5 819163 806232    Bottom 6.6 0.2 12 27.7 27.7 8.0 8.0 8.0 30.5 74.6 75.7 5.0 5.1 6.8 5    Surface 1.0 0.2 358 28.2 28.2 8.0 8.0 8.0 28.2 28.2 8.0 8.0 8.0 28.2 28.2																			5.6		1				
Bottom 6.6 0.2 7 27.7 27.7 8.0 8.0 8.0 30.6 30.5 74.6 75.7 5.0 5.1 6.8 4 5 5	IM2	Misty	Calm	13:04	7.6	Middle					27.7		8.1	30.4	30.4		78.3				6.3		5	819163	806232
Misty   Calm   13:26   8.2   Middle   4.1   0.2   8   28.2   28.2   8.0   8.0   28.2   28.2   8.0   8.0   28.2   28.2   8.0   8.0   28.2   28.2   8.0   8.0   28.2   28.2   8.0   8.0   28.2   28.2   8.0   8.0   28.2   28.2   8.0   8.0   28.2   28.2   8.0   8.0   28.2   28.2   8.0   8.0   28.2																					1				
Misty   Calm   13:26   8.2   Surface   1.0   0.2   358   28.2   28.2   8.0   8.0   28.2   28.2   8.0   8.0   28.2   28.2   8.0   8.0   28.2   28.2   8.0   8.0   5.4						Bottom			12		27.7	8.0	8.0	30.5	30.5		75.7		5.1		Ī	5			
Misty Calm 13:26 8.2 Surface 1.0 0.2 355 28.2 28.2 8.0 8.0 28.2 28.2 80.6 80.6 5.4 1.1 1.4 1.6 5 5 82.1360 80.6 4.1 0.2 9 28.2 28.2 8.0 8.0 8.0 28.2 28.2 80.1 80.0 5.3 79.8 80.0 5.3 79.8 80.0 5.3 79.8 80.0 5.3 79.8 80.0 5.3 79.8 80.0 5.3 79.8 80.0 5.3 79.8 80.0 5.3 79.8 80.0 5.3 79.8 80.0 5.3 79.8 80.0 5.3 79.8 80.0 5.3 79.8 80.0 5.3 79.8 80.0 79.8 79.8 80.0 79.8 79.8 80.0 79.8 79.8 79.8 79.8 79.8 79.8 79.8 79.8						0.4					20.0	8.0				80.6		5.4				4			
IM7 Misty Calm 13:26 8.2 Middle 4.1 0.2 9 28.2 28.2 8.0 8.0 28.2 28.2 8.0 8.0 28.2 28.2						Surface					28.2		8.0	28.2	28.2		80.6		- 4		1				
Misty Calm 13:26 8.2 Middle 4.1 0.2 8 28.2 28.2 8.0 8.0 28.2 28.2 79.8 80.0 5.3 1.5 1.6 4 5 82/360 806845	18.47	Minter	Calm	42.20	0.0	NA: al all a		0.2			20.2		0.0		20.2		00.0		5.4		1,,	5	_	004000	000044
Pettom 7.2 0.2 8 28.2 28.2 7.9 7.0 28.1 28.4 80.8 82.6 5.4 5.5 2.4 5	IIVI /	IVIISTY	Caim	13:26	8.2	iviladie	4.1	0.2	8		28.2		8.0	28.2	28.2		80.0				1.6		5	821360	806841
DUILUIII 72 02 44 292 20.2 70 1.9 20.0 20.1 944 02.0 56 3.3 24 5						Rottom	7.2	0.2	8	28.2	20.2		7.0	28.1	20.1	80.8	92.6	5.4	5.5	2.4	1	5			
				<u> </u>		DULLOTTI	7.2	0.2	11	28.2	26.2	7.9	1.9	28.0	26.1	84.4	02.0	5.6	5.5	2.4	1	5			

DA: Depth-Averaged

Water Quality Monitoring Results on 03 September 22 during Mid-Flood Tide

Water Qua		g	1	l .	O Ocptember 22		Current								DO S	aturation	Disso	nlved			Suspende	d Solids		
Monitoring	Weather	Sea	Sampling	Water			Speed	Current	Water Te	emperature (°C)		pН	Salin	ity (ppt)		(%)	Oxy		Turbidity	(NTU)	(mg/		Coordinate	Coordinate
Station	Condition	Condition	Time	Depth (m)	Sampling Dept	h (m)	(m/s)	Direction	Value	Average	Value	Average	Value	Average		` <i>'</i>	Value	_	Value	DA	Value	DA	HK Grid (Northing)	HK Grid (Easting)
						1.0	0.3	304	27.8		8.0		26.2		80.8		5.5		1.7		5			
					Surface	1.0	0.4	296	27.8	27.8	8.0	8.0	26.2	26.2	80.7	80.8	5.5		1.7	i	4			
	_					3.8	0.3	282	27.3		8.0		26.8		66.0		4.5	5.0	3.5	1	4	_		
IM10	Sunny	Moderate	12:39	7.5	Middle	3.8	0.3	278	27.3	27.3	8.0	8.0	26.9	26.8	66.1	66.1	4.5		3.5	4.9	4	4	822223	809828
						6.5	0.4	276	27.0		8.0		27.4		61.9		4.2		9.4	1	3			
					Bottom	6.5	0.3	277	27.0	27.0	8.0	8.0	27.4	27.4	62.0	62.0	4.2	4.2	9.4	i	2			
					0 /	1.0	0.4	279	27.6	27.0	8.0		26.3		73.1	70.4	5.0		1.7		3			
					Surface	1.0	0.4	276	27.6	27.6	8.0	8.0	26.3	26.3	73.0	73.1	5.0		1.7	1	4			
15.44.4	0	Madanta	40.07	<b>-</b> 4	NAC stalls	3.7	0.4	293	27.0	07.0	8.0	0.0	27.6	07.0	61.2	04.0	4.2	4.6	11.8		2		004404	040540
IM11	Sunny	Moderate	12:27	7.4	Middle	3.7	0.4	297	27.0	27.0	8.0	8.0	27.6	27.6	61.3	61.3	4.2		11.8	8.9	3	3	821481	810543
					D-11	6.4	0.3	280	27.0	07.0	8.0	0.0	27.6	07.0	61.6	04.7	4.2	4.0	13.3	i	2			
					Bottom	6.4	0.4	286	27.0	27.0	8.0	8.0	27.6	27.6	61.8	61.7	4.2	4.2	13.3	i	2			
					0 (	1.0	0.5	286	27.4	07.4	8.0		27.0		71.1		4.8		3.4		3			
					Surface	1.0	0.4	282	27.4	27.4	8.0	8.0	27.0	27.0	71.1	71.1	4.8	4.7	3.4	i	2			
11.440	0	Madanta	40.40	7.0	NAC stalls	4.0	0.5	279	27.0	07.0	8.0	0.0	27.5	07.5	65.8	05.0	4.5	4.7	9.7		2		004400	044500
IM12	Sunny	Moderate	12:19	7.9	Middle	4.0	0.4	280	27.0	27.0	8.0	8.0	27.5	27.5	65.8	65.8	4.5		9.7	8.8	2	2	821169	811528
					D-11	6.9	0.4	299	26.8	00.0	8.0	0.0	27.9	07.0	64.8	04.0	4.4		13.3	i	<2			
					Bottom	6.9	0.4	305	26.8	26.8	8.0	8.0	27.9	27.9	64.9	64.9	4.4	4.4	13.4	1	<2			
					0	1.0	0.0	179	27.7	07.7	8.0	0.0	26.1	00.4	73.7	70.7	5.0		3.1		4			
					Surface	1.0	0.0	186	27.7	27.7	8.0	8.0	26.1	26.1	73.7	73.7	5.0	- 0	3.1	1	3			
SR1A	Sunny	Calm	11:36	4.4	Middle	2.2	0.0	185	-		-		-		-		-	5.0	-	3.5	-	3	819982	812656
SKIA	Suring	Callii	11.30	4.4	ivildale	2.2	-	186	-	-	-	-	-	1 -	-	-	-		-	3.5	-	3	019902	012030
					Bottom	3.4	0.0	166	27.5	27.5	8.0	9.0	26.1	26.1	61.3	61.4	4.2	4.2	3.8	1	<2			
					DOLLOTT	3.4	0.0	159	27.5	27.5	8.0	8.0	26.1	20.1	61.4	01.4	4.2	4.2	3.8		<2			
					Surface	1.0	0.2	231	27.3	27.3	8.0	8.0	27.1	27.1	72.5	72.5	4.9		3.6		<2			
					Surface	1.0	0.2	235	27.3	21.5	8.0	0.0	27.1	21.1	72.4	12.5	4.9	4.9	3.7	Ì	<2			
SR2	Sunny	Moderate	11:25	4.2	Middle	-	0.1	208	-	-	-		-	_	-		-	4.9	-	4.0	-	<2	821452	814170
SINZ	Suring	Moderate	11.23	4.2	Wildale	-	0.1	204	-	-	-	_	-	] -	-	-			-	4.0	-	~2	021432	014170
					Bottom	3.2	0.2	214	27.1	27.1	8.0	8.0	27.4	27.4	70.3	70.3	4.8	4.8	4.4		<2			
					DOLLOITI	3.2	0.3	207	27.1	27.1	8.0	0.0	27.4	21.4	70.3	70.5	4.8	4.0	4.4		<2			
					Surface	1.0	0.2	347	28.2	28.2	8.0	8.0	28.0	28.0	81.3	81.5	5.4		2.1		5			
					Surface	1.0	0.1	342	28.2	20.2	8.0	0.0	28.0	20.0	81.6	01.5	5.5	5.5	2.1		5			
SR3	Misty	Calm	13:32	7.4	Middle	3.7	0.2	342	28.1	28.1	8.0	8.0	28.0	28.0	82.2	82.3	5.5	0.0	2.2	2.2	4	4	822143	807557
ONO	iviloty	Cairi	10.02	7	Wildale	3.7	0.1	342	28.1	20.1	8.0	0.0	28.0	20.0	82.3	02.0	5.5		2.2		4	-	022140	001001
					Bottom	6.4	0.1	333	28.2	28.2	8.0	8.0	27.9	27.9	84.5	84.9	5.7	5.7	2.4	1	3			
					Zotto	6.4	0.2	340	28.2	20.2	8.0	0.0	27.9	21.0	85.3	00	5.7	0	2.2		4			
					Surface	1.0	0.1	271	28.2	28.2	8.1	8.1	28.2	28.2	81.6	81.7	5.4		6.2	l	5			
					Cundoo	1.0	0.1	277	28.2	20.2	8.1	0	28.3	20.2	81.7	01	5.5	5.5	6.4		4			
SR4A	Misty	Calm	12:30	10.0	Middle	5.0	0.0	240	28.1	28.1	8.1	8.1	28.5	28.5	82.1	82.2	5.5		7.3	7.2	4	5	817205	807805
						5.0	0.1	246	28.1		8.1		28.5		82.2		5.5		7.3		5	-		
					Bottom	9.0	0.0	270	28.1	28.1	8.1	8.1	28.7	28.7	82.5	82.5	5.5	5.5	8.0	ļ	6			
			<u> </u>			9.0	0.1	276	28.1		8.1		28.7		82.5		5.5		8.0		7			
					Surface	1.0	-	-	27.7	27.7	8.0	8.0	26.2	26.2	74.0	73.9	5.0		3.6		5			
						1.0	-	-	27.7		8.0		26.2		73.8		5.0	5.0	3.7	l	6			
SR8	Sunny	Calm	12:09	4.5	Middle	-	-	-	-	-	-	-	-	-	-	-	-		-	6.2	-	5	820389	811642
						-	-	-	-		-		-		-		-		-		-			
					Bottom	3.5	-	-	26.8	26.8	8.0	8.0	28.0	28.0	61.5	61.6	4.2	4.2	8.7		5			
						3.5	-	-	26.8		8.0		28.0		61.6		4.2		8.8		4			

Water Quality Monitoring Results on 06 September 22 during Mid-Ebb Tide

Sampling Depth (m)   Septil (m)	Water Qua	lity Monit	oring Resu	its on		06 September 22	auring Mia-	EDD 11de	•																
Settline   Condition   Condi		Weather	Sea	Sampling	Water	Sampling Dont	is (m)		Current	Water Te	emperature (°C)	pł	Н	Salin	ity (ppt)					Turbidity	(NTU)				Coordinate
Surny   Moderate   No.	Station	Condition	Condition	Time	Depth (m)	Sampling Dept	1 (11)	(m/s)	Direction	Value	Average	Value A	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA		(Easting)
C1   Surny   Moderate   Moderat						Surface		0.5	211		27.7		0.2	31.2	21.2	104.2	106.1			2.0		8			
C1   Surmy   Moderate   09:34   8.7   Middle   4.4   0.5   201   27.0   27.0   8.1   8.1   32.6   2.6   76.0   76.0   5.0   7.5   6.0   8   8   8   15600   804335						Surface	1.0	0.5	204	27.7	21.1	8.3	0.5	31.2	31.2	108.0	100.1	7.1	6.0	2.0		7			
Bottom   Figure   F	C1	Suppy	Modorato	00.34	9.7	Middlo	4.4	0.5	201	27.0	27.0	8.1	0.1	32.6	22.6	75.9	76.0		6.0	7.5	60	8	۰	915620	904220
Sum   Sum   Sum   Form   For	Ci	Suring	Woderate	09.54	0.7	Wilddle	4.4	0.4	208	27.0	27.0	8.1	0.1	32.6	32.0	76.0	70.0	5.0		7.3	0.0	8	٥	013020	004230
Surface   1.0   0.8   171   284   28.4   8.4   8.4   27.2   27.2   146.8   46.2   9.8   11.5   46.2   9.8   12.2   4.0   9.9   9.8   25664   806225   8062						Rottom		0.5			27.0	8.1	0.1	32.6	22.6	76.6	76.7		F 1			8			
C2   Sunny   Moderate   10.50   10.3   Middle     5.2   0.8   186   27.7   27.7   8.3   8.3   28.0   28.0   10.18   10.21   6.9   6.9   2.2						Bottom	7.7	0.4	233	27.0	27.0	8.1	0.1	32.6	32.0	76.8	10.1	5.1	3.1	8.6		9			
C2   Sunny   Moderate   10.50   10.3   Middle     5.2   0.8   186   27.7   27.7   8.3   8.3   28.0   28.0   10.18   10.21   6.9   6.9   2.2						Surface	1.0	0.8	171	28.4	20.4	8.4	0.4	27.2	27.2	146.8	146.0	9.8		1.1		10			
C2   Surny   Moderate   10:50   10:3   Middle   5:2   0.8   196   27.7   27.7   8.3   8.3   28.0   28.0   101.8   6.9   2.2   4.0   9   9   825664   866265						Surface		0.8	173	28.4	20.4	8.4	0.4	27.2	21.2	145.5	140.2	9.7	0.2	1.2	Ī	10			
Bottom 9.3 0.7 176 27.4 27.4 8.1 8.1 8.1 30.6 30.5 71.9 71.7 4.8 4.8 8.6 9 9 8 81.785    Surface 1.0 0.3 76 28.8 8.1 8.1 28.7 89.3 89.5 61.1 89.5 69.1 10.8 8.8 8.5 9 9 8 81785    Misty Moderate 08:00 9.0 Middle 4.5 0.3 76 28.8 26.8 8.1 8.1 28.7 89.3 89.3 89.5 61.1 89.5 61.1 89.5 89.1 89.3 89.5 81.1 89.5 8	CO	Cuppy	Madarata	10.50	10.2	Middle	5.2	0.8	186	27.7	27.7	8.3	0.2	28.0	20.0	102.4	102.1		0.3		10	9	0	925664	906026
C3 Misty Moderate Bound Bottom	C2	Suring	Moderate	10.50	10.3	ivildale	5.2	0.8	185	27.7	21.1	8.3	0.3	28.0	20.0	101.8	102.1	6.9		2.2	4.0	9	9	023004	000920
C3 Misty Moderate Bound Bottom						Pottom	9.3	0.7	176	27.4	27.4	8.1	0.1	30.6	20 E	71.9	71.7	4.8	4.0		Ī	8			
C3   Misty   Moderate   08:00   9.0   Middle   4.5   0.3   76   26.8   26.7						Bottom	9.3	0.7	182	27.4	21.4	8.1	0.1	30.4	30.3	71.4	/1./	4.8	4.0	8.5		9			
Misty   Moderate   M						Surface	1.0	0.3	71	26.8	26.0	8.1	0.1	28.7	20.7	89.7	90 E	6.1		1.0		6			
Middle   A.5   O.3   61   26.7   26						Surface	1.0	0.3	76	26.8	20.8	8.1	8.1	28.8	28.7	89.3	89.5	6.1	F 0	1.0	Ī	6			
Moderate   Os. of the late	00	Minter	Madazata	00.00	0.0	NA: al all a	4.5	0.3	61	26.7	20.7	8.1	0.4	29.1	20.2	82.9	02.4		5.9	1.7	1,0	6	7	000007	047700
Moderate	C3	iviisty	Moderate	08:00	9.0	ivildale	4.5	0.3	57	26.7	20.7	8.1	8.1	29.2	29.2	83.3	83.1	5.7		1.7	1.6	6	,	822097	817789
Moderate   Number   Sunny   Number   Sunny   Number   Sunny   Sunny   Moderate   Number   Sunny   Number   Sunny   Sunny   Number   Sunny   Sunny   Sunny   Number   Sunny   Sunny   Number   Sunny   Sunny   Number   Sunny   Sunny   Sunny   Sunny   Sunny   Sunny   Sunny   Sunny   S						Dettern	8.0	0.4	65	26.7	20.7	8.1	0.4	29.0	20.0	78.7	70.0	5.4	<i>-</i> 1	2.0		7			
Moderate   No.   Moderate   No.   Moderate   No.   N						Bottom	8.0	0.4	65	26.7	20.7	8.1	0.1	28.9	20.9	79.2	79.0	5.4	5.4	1.9		8			
Middle						Curfore	1.0	0.4	188	28.0	20.0	8.4	0.4	30.8	20.0	133.4	422.4	8.8		4.1		11			
Middle   Sunny   Moderate   Mod						Surface	1.0	0.3	186	28.0	26.0	8.4	0.4	30.8	30.6	133.4	133.4	8.8	7 1	4.1		11			
Bottom Bottom	1844	Suppy	Modorato	00:49	6.2	Middlo		0.4	179		27.2		9.2	32.3	22.2		91 /	5.4	7.1		5.6	9	10	010221	906445
Moderate	IIVI I	Suring	Woderate	09.46	0.5	Wilddle	3.2	0.4	180	27.1	21.2	8.2	0.2	32.3	32.3	81.1	01.4	5.4		5.9	3.0	10	10	010334	000443
Moderate   Sunny   Moderate   Decision   Sunny   Moderate   Decision   Sunny   Moderate   Decision   Sunny   Moderate   Decision   Decision   Sunny   Moderate   Decision   De						Pottom	5.3	0.4	201	27.0	27.0	8.2	0.2	32.7	22.7	68.0	60.0	4.5	1 E	6.8		8			
Moderate   Sunny   Moderate   Sunny   Moderate   O9:54   6.7   Middle   Sunny   Moderate   O9:54   6.7   Middle   Sunny   Moderate   O9:54   6.7   Middle   Sunny   Moderate   O9:54   O						Bottom	5.3	0.4	205	27.0	27.0	8.2	0.2	32.7	32.7	68.0	00.0	4.5	4.5	6.8		8			
Moderate   Sunny   Moderate   O9:54   6.7   Middle   09:54   09:						Surface	1.0	0.5	208	28.0	20.0	8.4	0.1	31.2	21.2	129.2	126 E	8.5		5.2		8			
Moderate						Surface	1.0	0.5	213	28.0	20.0	8.4	0.4	31.3	31.2	123.7	120.5	8.1	G E	5.6	Ī	7			
Bottom	IMO	Cuppy	Madarata	00:54	6.7	Middle	3.4	0.5	202	27.0	27.0	8.1	0.1	32.4	22.4	73.0	71.0		0.5	5.0	E 4	10		910161	906339
Sunny   Moderate   10:16   7.5   Middle   T.5   M	IIVIZ	Suring	Moderate	09.54	0.7	ivildale	3.4	0.5	196	27.0	27.0	8.1	0.1	32.4	32.4	69.3	/1.2	4.6		4.9	5.4	9	9	019101	000220
Sum   Moderate   10:16   7.5   Middle   3.8   0.3   206   27.8   28.0   28.0   8.1   0.1   32.8   32.0   64.0   63.9   4.3   4.3   6.0   10     10						Dettern	5.7	0.5	182	26.9	20.0	8.1	0.4	32.8	20.0	63.8	C2 0	4.2	4.0	5.5		11			
IM7 Sunny Moderate 10:16 7.5 Middle 3.8 0.3 199 27.8 27.8 8.3 8.3 30.0 30.0 113.1 114.4 7.5 7.7 4.6 4.6 9 9 821363 806847						Bottom	5.7	0.5	175		26.9	8.1	8.1	32.8	32.8	64.0	63.9	4.3	4.3	6.0	1	10			
IM7 Sunny Moderate 10:16 7.5 Middle 3.8 0.3 199 27.8 27.8 8.3 8.3 30.0 30.0 113.1 114.4 7.5 7.7 4.6 4.6 9 9 821363 806847						Curtoso	1.0	0.4	207	28.0	20.0	8.3	0.2	29.4	20.5	136.7	126 F	9.1		2.7		9			
IM7 Sunny Moderate 10:16 7.5 Middle 3.8 0.3 199 27.8 27.8 8.3 8.3 30.0 30.0 113.1 114.4 7.5 7.7 4.6 4.6 9 9 821363 806847						Suпасе		0.4			28.0		8.3	29.5	29.5		136.5		0.4		1	10	1		
	18.47	Cummii	Madazata	10.10	7.5	NA: al all a	3.8	0.3	199	27.8	27.0	8.3	0.0	30.0	20.0	113.1	444.4	7.5	8.4	4.6	1 4.0	9	_	004000	000047
	IIVI /	Sunny	ivioderate	10:16	7.5	iviladie	3.8	0.3	206		27.8		8.3	30.0	30.0		114.4				4.6		9	821363	806847
						Dettere	6.5	0.3	216	27.7	27.7	8.2	0.0		20.4	102.7	400.0	6.8		6.5	1	8	1		
						Bottom	6.5	0.3	216	27.7	21.1	8.2	8.2	30.4	30.4	103.1	102.9	6.9	6.9	6.7	1	7	1		

DA: Depth-Averaged

Water Quality Monitoring Results on 06 September 22 during Mid-Ebb Tide

Monitoring	Weather	Sea	Sampling	Water	oo ceptember 22		Current Speed	Current	Water Te	emperature (°C)		рН	Salin	nity (ppt)		aturation (%)	Disso		Turbidity	(NTU)	Suspende (mg/		Coordinate	Coordinate
Station	Condition	Condition	Time	Depth (m)	Sampling Dept	h (m)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value		Value	DA	Value	DA	HK Grid (Northing)	HK Grid (Easting)
			İ		Curtons	1.0	0.5	127	27.0	27.0	8.4	8.4	26.5	20. 5	112.3	400.0	7.7		4.0		7			
					Surface	1.0	0.4	132	27.0	27.0	8.4	0.4	26.5	26.5	104.0	108.2	7.2	6.4	4.0		8			
IM10	Misty	Moderate	09:14	9.0	Middle	4.5	0.5	119	27.0	27.1	8.1	8.1	29.1	29.1	77.8	78.2	5.3	0.4	5.3	5.3	6	7	822233	809842
IIVITO	iviisty	Woderate	05.14	9.0	Middle	4.5	0.6	124	27.1	27.1	8.1	0.1	29.1	25.1	78.5	70.2	5.3		5.3	5.5	7	,	022233	009042
					Bottom	8.0	0.5	113	27.4	27.4	8.1	8.1	29.0	29.0	86.8	91.0	5.8	6.1	6.4		6			
					Dottom	8.0	0.5	108	27.4	27.4	8.1	0.1	28.9	20.0	95.2	01.0	6.4	0.1	6.4		6			
					Surface	1.0	0.6	112	27.1	27.1	8.3	8.3	28.4	28.4	98.7	97.2	6.7		4.0		6			
						1.0	0.5	110	27.1		8.3		28.5		95.7	***	6.5	6.1	4.0		7			
IM11	Misty	Moderate	09:08	8.4	Middle	4.2	0.5	104	27.1	27.2	8.1	8.1	28.7	28.7	81.6	81.9	5.5		5.4	5.1	10	9	821489	810524
						4.2	0.5	98	27.2		8.1	_	28.7		82.1		5.6		5.3		10			
					Bottom	7.4	0.5	115	27.4	27.4	8.1	8.1	28.6	28.5	86.0	87.7	5.8	5.9	6.0		12			
						7.4	0.5	117	27.4		8.1		28.5		89.4		6.0		6.0		11			
					Surface	1.0	0.6	107	27.3	27.3	8.3	8.3	27.6	27.7	114.6	112.8	7.8		1.7		5			
						1.0	0.5	99	27.3		8.4		27.7		111.0		7.5	7.0	1.8		6			
IM12	Misty	Moderate	08:59	8.0	Middle	4.0	0.6	113	27.3	27.3	8.2	8.2	28.1	28.2	95.1	93.7	6.4		2.6	2.5	7	7	821147	811505
						4.0 7.0	0.6	105 80	27.3		8.2		28.2		92.2		6.2		2.6 3.2		6 8			
					Bottom	7.0	0.6	77	27.4 27.4	27.4	8.1	8.1	28.2	28.1	100.1	101.9	7.0	6.9	3.2		7			
				1		1.0	0.0	79	27.4		8.2		27.5				6.6		1.8		8			
					Surface	1.0	0.0	77	27.1	27.1	8.2	8.2	27.6	27.5	96.4 95.4	95.9	6.5		1.9		8			
						2.6	0.0	58	-		- 0.2		-		93.4		- 0.5	6.6	1.9		-			
SR1A	Misty	Moderate	08:36	5.2	Middle	2.6	0.0	56	+ -	-	-	-	<u> </u>	-	-	-	-		-	2.1		9	819971	812663
						4.2	0.0	63	27.0		8.1		27.9		96.3		6.6		2.4		10			
					Bottom	4.2	0.0	68	26.9	27.0	8.2	8.2	27.6	27.8	98.3	97.3	6.7	6.7	2.4		10			
						1.0	0.5	57	27.0		8.2		28.0		101.9		6.9		2.9		7			
					Surface	1.0	0.5	60	27.0	27.0	8.2	8.2	28.2	28.1	96.7	99.3	6.6		2.9		8			
						-	0.5	59	-		-		-		-		-	6.8			-	_		
SR2	Misty	Moderate	08:24	5.6	Middle	-	0.5	55	<u> </u>	-	-	-	_	-	-	-	-		_	3.0	_	7	821445	814161
					5	4.6	0.4	47	26.8		8.1		28.7		91.1		6.2		3.2		6			
					Bottom	4.6	0.4	52	26.8	26.8	8.1	8.1	28.5	28.6	94.0	92.6	6.4	6.3	3.2		6			
					0	1.0	0.6	175	28.4	00.4	8.4	0.4	28.0	00.0	151.6	450.0	10.1		1.3		15			
					Surface	1.0	0.5	179	28.3	28.4	8.4	8.4	28.1	28.0	150.0	150.8	10.0		1.3		14			
SR3	Common	Madagata	40.00	0.0	Middle	4.4	0.6	150	27.5	07.5	8.2	0.0	30.8	20.0	88.9	00.0	5.9	8.0	3.6	2.0	13	40	000470	007504
SK3	Sunny	Moderate	10:29	8.8	Middle	4.4	0.6	154	27.5	27.5	8.2	8.2	30.8	30.8	88.8	88.9	5.9		3.7	3.0	12	13	822170	807564
					Bottom	7.8	0.6	162	27.5	27.5	8.1	8.1	30.8	30.8	87.7	87.8	5.8	5.9	4.2		12			
					Bottom	7.8	0.7	156	27.5	27.5	8.1	0.1	30.8	30.0	87.9	07.0	5.9	3.9	4.2		13			
					Surface	1.0	0.0	74	28.2	28.2	8.3	8.3	29.9	30.0	127.8	127.1	8.5		3.7		7			
					Gunace	1.0	0.0	74	28.1	20.2	8.3	0.5	30.1	30.0	126.3	127.1	8.4	6.6	4.0		8			
SR4A	Sunny	Moderate	09:20	8.8	Middle	4.4	0.0	85	27.2	27.2	8.1	8.1	31.8	31.8	72.7	72.5	4.8	0.0	8.0	7.4	7	7	817184	807804
0	ou,	moderate	00.20	0.0	madio	4.4	0.0	82	27.2		8.1	0	31.9	01.0	72.3	72.0	4.8		8.1		7	•	011.01	00.00.
					Bottom	7.8	0.0	88	27.0	27.0	8.1	8.1	32.5	32.5	64.8	64.9	4.3	4.3	10.2		6			
			<u> </u>			7.8	0.0	86	27.0	=	8.1		32.5		65.0		4.3		10.3		5			
					Surface	1.0	-	-	27.5	27.5	8.3	8.3	26.8	26.8	110.5	110.8	7.5		2.5		7			
						1.0	-	-	27.4		8.3		26.8		111.0		7.6	7.6	2.5		8			
SR8	Misty	Moderate	08:54	4.8	Middle	-	-	-	-	-	-	-		-		-	-		-	2.8	-	7	820372	811623
						-	-	-			-		-		-				-		-			
					Bottom	3.8	-	-	27.3	27.3	8.3	8.3	26.6	26.6	104.1	103.6	7.1	7.1	3.0		5			
			I			3.8	-	-	27.3	]	8.3		26.6		103.0		7.0		3.0		6			

Water Quality Monitoring Results on 06 September 22 during Mid-Flood Tide

water Qua	ity wonit	oring Resu	แร บท		06 September 22	auring wia-	riooa ii	ue																
Monitoring	Weather	Sea	Sampling	Water			Current Speed	Current	Water Te	emperature (°C)	рН		Salini	ity (ppt)		aturation (%)	Disso		Turbidity	(NTU)	Suspende (mg		Coordinate	Coordinate
Station	Condition	Condition	Time	Depth (m)	Sampling Dept	h (m)	(m/s)	Direction	Value	Average	Value Ave	age \	Value	Average		Average	Value		Value	DA	Value	DA	HK Grid (Northing)	HK Grid (Easting)
					Ì	1.0	0.3	41	28.1		8.5	_	30.1		146.7		9.7		8.2		7			
					Surface	1.0	0.4	40	28.1	28.1	8.5		30.1	30.1	147.2	147.0	9.7		8.3	ł	6			
						4.1	0.3	15	27.6		0.2		31.2		108.8		7.2	8.5	10.9	ł	4			
C1	Fine	Moderate	17:02	8.1	Middle	4.1	0.3	20	27.6	27.6	8.3	3	31.2	31.2	108.0	108.4	7.2		10.1	11.3	6	5	815600	804259
						7.1	0.3	38	27.6		9.2				100.5		6.7		15.2	ł	5			
					Bottom	7.1	0.3	32	27.6	27.6	8.2	2	31.4	31.4	100.6	100.6	6.7	6.7	15.1		4			
					0.7	1.0	0.1	204	28.2		8.4				130.5	400.0	8.8		2.2		15			
					Surface	1.0	0.1	209	28.2	28.2	8.4	4	26.9 26.9	26.9	129.1	129.8	8.7	0.7	2.3	i	15			
C2	Fine.	Madazata	45.40	10.6	Middle	5.3	0.1	196	27.2	27.2	8.2	,	31.4	31.5	68.3	68.3	4.6	6.7	3.0	4.9	16	16	825664	806925
C2	Fine	Moderate	15:46	10.6	ivildale	5.3	0.1	197	27.2	21.2	8.2	_	31.5	31.5	68.3	08.3	4.6		3.0	4.9	16	16	823004	806925
					Bottom	9.6	0.0	222	27.1	27.2	8.1	1	31.6 31.6	31.6	68.4	68.5	4.6	4.6	9.5		16			
					DOLLOITI	9.6	0.0	218	27.2	21.2	8.1			31.0	68.6	00.5	4.6	4.0	9.3		17			
					Surface	1.0	0.5	263	27.0	27.0	8.4	<sub>1</sub> Ξ	29.0 29.0	29.0	111.0	109.1	7.5		3.6		13			
					Guilace	1.0	0.4	256	26.9	27.0	8.4			23.0	107.2	103.1	7.3	6.7	3.6		13			
C3	Misty	Moderate	17:10	7.6	Middle	3.8	0.4	266	26.8	26.8	8.2	2	29.2 29.4	29.3	86.9	86.6	5.9	0.7	4.3	4.5	12	12	822101	817791
						3.8	0.4	270	26.7		8.2				86.3		5.9		4.3		12			
					Bottom	6.6	0.4	279	26.6	26.6	8.2	2	29.6 29.6	29.6	94.6	97.5	6.4	6.6	5.7		10			
						6.6	0.4	277	26.6		8.2				100.4		6.8		5.7		11			
					Surface	1.0	0.2	8	27.9	27.9	8.5 8.5	5	31.1	31.1	153.6	152.0	10.1		6.0	Į.	5			
						1.0	0.2	13	27.8						150.4		9.9	8.9	6.1	l	5			
IM1	Fine	Moderate	16:39	6.4	Middle	3.2 3.2	0.2	23 23	27.6 27.6	27.6	8.3 8.3	3	31.7	31.7	117.7 117.8	117.8	7.8 7.8		7.5 7.9	8.3	6 7	6	818358	806434
						5.4	0.2	14	27.6		0.2				116.9		7.7		11.0	ł	7			
					Bottom	5.4	0.1	18	27.6	27.6	8.3	3	31.9	31.9	116.6	116.8	7.7	7.7	11.4		7			
						1.0	0.1	339	28.6		9.5		31.2		153.4		10.0		3.2		6			
					Surface	1.0	0.1	334	28.6	28.6	8.5	5	31.1	31.1	153.8	153.6	10.0		3.2	ł	5			
						3.4	0.1	330	27.5		0.2				97.9		6.5	8.2	9.4		7	_		
IM2	Fine	Moderate	16:31	6.8	Middle	3.4	0.1	334	27.4	27.5	8.3	3	32.0 32.1	32.0	97.1	97.5	6.4		9.1	7.5	8	7	819162	806219
					D.II.	5.8	0.1	323	27.0	07.0	9.2			00.7	67.2	07.4	4.5	4.5	10.2		10			
					Bottom	5.8	0.1	322	27.0	27.0	8.2	2	32.7 32.7	32.7	67.5	67.4	4.5	4.5	10.0	1	8			
					Surface	1.0	0.2	289	28.6	28.6	8.5	-	27.9	27.9	159.2	158.9	10.6		2.4		11			
					Surface	1.0	0.2	290	28.6	20.0	8.5	3	27.9 27.9	21.9	158.5	156.9	10.5	9.3	2.4		12			
IM7	Fine	Moderate	16:08	7.8	Middle	3.9	0.2	298	28.0	28.0	8.3	3	28.9 28.9	28.9	121.5	121.4	8.1	9.5	2.7	2.9	9	9	821350	806823
11017	1 1110	Moderate	10.00	7.0	iviidule	3.9	0.2	299	28.0	20.0	8.3			20.9	121.3	121.4	8.1		2.8	2.9	8	9	021330	000023
					Bottom	6.8	0.2	289	28.0	28.0	8.3	3	29.1	29.1	117.8	117.9	7.9	7.9	3.5		7			
					201.0	6.8	0.2	284	28.0	20.0	8.3		29.1	_0	117.9		7.9		3.6		6			

DA: Depth-Averaged

Water Quality Monitoring Results on 06 September 22 during Mid-Flood Tide

		ornig itesa	1		OO OCPICINSCI EE	auring ma	Current	I			1				DO S	aturation	Disso	lved			Suspende	d Solide		
Monitoring	Weather	Sea	Sampling	Water			Speed	Current	Water Te	emperature (°C)		рН	Salin	ity (ppt)		(%)	Oxy		Turbidity	(NTU)	(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)
	Condition	Condition	Time	Doptii (iii)		1.0	, ,	075		Avelage		Tivolage		7 Werage		Avoluge		Dit		DA		D/ (	(11011111119)	(Edoting)
					Surface	1.0	0.2	275	28.1 28.0	28.1	8.7 8.6	8.7	26.8	26.8	160.9 158.9	159.9	10.8		2.0	-	9			
					<u> </u>		0.2	281			_		26.8				10.7	10.0	2.0	1				
IM10	Misty	Moderate	15:49	9.0	Middle	4.5 4.5	0.2	273 273	27.8 27.8	27.8	8.5 8.5	8.5	27.1	27.1	136.9 136.3	136.6	9.2		3.2	3.2	8 9	9	822226	809839
						8.0	0.2																	
					Bottom	8.0	0.2	244 236	27.7 27.7	27.7	8.5 8.5	8.5	27.3	27.3	138.9	139.8	9.4 9.5	9.5	4.4		8			
						1.0	0.1	282	28.1		_		_						3.8		8			
					Surface	1.0	0.2	282	28.1	28.1	8.5 8.5	8.5	27.0 27.0	27.0	158.2 157.2	157.7	10.7 10.6		3.8		7			
						3.7	0.2	269	28.0		8.5		27.0		149.2		10.0	10.3	4.2		6			
IM11	Misty	Moderate	16:06	7.4	Middle	3.7	0.2	270	28.0	28.0	8.5	8.5	27.0	27.0	149.2	149.2	10.0		4.2	4.4	7	7	821489	810560
						6.4	0.2	285	28.0		8.3		27.0				10.0		5.1		6			
					Bottom	6.4	0.3	278	28.0	28.0	8.3	8.3	27.1	27.0	149.8 150.0	149.9	10.1	10.1	5.0		6			
-			1			1.0	0.3	290	28.0		8.6		27.4				12.2		6.1		13			
					Surface	1.0	0.3	285	27.9	28.0	8.6	8.6	27.5	27.5	181.8 172.3	177.1	11.6		6.1		13			
						4.0	0.3	302	27.5		8.5		27.9		139.1		9.4	10.7	7.9		14			
IM12	Misty	Moderate	16:12	8.0	Middle	4.0	0.3	302	27.5	27.5	8.5	8.5	27.9	27.9	139.1	139.1	9.4		7.9	7.3	14	14	821141	811539
						7.0	0.3	296	27.5		8.2		28.2		134.5		9.4		8.1		16			
					Bottom	7.0	0.3	289	27.7	27.6	8.3	8.2	28.0	28.1	141.3	137.9	9.1	9.3	8.0		16			
						1.0	- 0.3	192	28.1		8.4		27.6		144.5		9.7		7.4		10			
					Surface	1.0	0.0	188	28.1	28.1	8.4	8.4	27.6	27.6	137.1	140.8	9.7		7.4		9			
						2.3	-	195	-		-		21.0		-		- 5.2	9.5	- 7.4		-			
SR1A	Misty	Moderate	16:34	4.6	Middle	2.3	0.1	200	-	-	<del>-</del> -	-	-	-	-	-	-			7.7		9	819982	812656
						3.6	0.0	204	28.1		8.4		27.6		135.0		9.1		8.1		8			
					Bottom	3.6	0.0	204	28.0	28.1	8.4	8.4	27.6	27.6	133.5	134.3	9.0	9.1	8.0		9			
						1.0	0.0	229	27.6		8.4		28.2		128.9		8.7		5.3		10			
					Surface	1.0	0.1	221	27.6	27.6	8.4	8.4	28.3	28.3	125.3	127.1	8.5		5.2		10			
						-	0.1	221	-		-		-		-		-	8.6	-		-			
SR2	Misty	Moderate	16:48	5.6	Middle	-	0.0	217	-	-		-		-		-				5.9		11	821486	814171
						4.6	0.1	212	27.5		8.3		28.3		114.4		7.7		6.5		12			
					Bottom	4.6	0.1	209	27.4	27.5	8.3	8.3	28.3	28.3	113.4	113.9	7.7	7.7	6.6		12			
						1.0	0.0	189	29.2		8.6		26.7		209.7		13.9		1.4		7			
					Surface	1.0	0.1	194	29.2	29.2	8.6	8.6	26.7	26.7	204.7	207.2	13.5		1.4	1	8			
						4.1	0.1	176	27.9		8.3	_	29.0		105.6		7.1	10.4	1.9	1 _	8	_		
SR3	Fine	Moderate	16:02	8.1	Middle	4.1	0.1	178	27.8	27.9	8.3	8.3	29.0	29.0	105.3	105.5	7.0		1.8	2.6	8	8	822157	807568
					5	7.1	0.1	207	27.7		8.3		29.8		99.5		6.6		4.4		10			
					Bottom	7.1	0.2	205	27.7	27.7	8.3	8.3	29.8	29.8	99.6	99.6	6.6	6.6	4.4	1	9			
					0	1.0	0.0	269	28.6	00.0	8.3	0.0	30.3	00.0	129.6	400.4	8.5		10.2		7			
					Surface	1.0	0.1	263	28.6	28.6	8.3	8.3	30.3	30.3	129.2	129.4	8.5	0.4	10.4	1	6			
CD4A	Tin a	Madaust -	47.00	0.0	NA: al all a	4.3	0.0	284	28.6	20.0	8.3	0.0	30.3	20.2	125.8	405.7	8.2	8.4	10.7	10.0	6	7	047044	007000
SR4A	Fine	Moderate	17:28	8.6	Middle	4.3	0.0	279	28.6	28.6	8.3	8.3	30.3	30.3	125.6	125.7	8.2		10.8	10.9	8	7	817211	807829
					Dettern	7.6	0.0	253	28.6	20.0	8.3	0.0	30.3	20.2	124.0	400.0	8.1	0.4	11.7	1	8			
					Bottom	7.6	0.0	259	28.6	28.6	8.3	8.3	30.3	30.3	123.8	123.9	8.1	8.1	11.9	1	9			
					Curfoss	1.0	-	-	27.9	27.0	8.4	0.4	27.3	07.0	155.6	450.0	10.5		4.6		11			
					Surface	1.0	-	-	27.9	27.9	8.4	8.4	27.3	27.3	151.5	153.6	10.2	40.1	4.5	1	10			
000		Madaal	40.47	4.0	NAC-L-III-	-	-	-	-		-		-		-		-	10.4	-	1	-	40	000000	044000
SR8	Misty	Moderate	16:17	4.0	Middle	-	-	-	-	-	-	1 -	-	-	-	-	-		-	4.8	-	10	820393	811602
					Dettern	3.0	-	-	27.8	27.0	8.4	0.4	27.4	07.4	140.7	440.0	9.5	0.5	5.1	1	9			
					Bottom	3.0	-	-	27.7	27.8	8.4	8.4	27.4	27.4	140.9	140.8	9.5	9.5	5.0	1	9			
					•			•																

Water Quality Monitoring Results on 08 September 22 during Mid-Ebb Tide

water Quar	119 111011111	ornig ittoou	113 011		06 September 22	during ima		•																
Monitoring	Weather	Sea	Sampling	Water	Sampling Deptl	h (m)	Current Speed	Current	Water Te	emperature (°C)	рŀ	1	Salir	nity (ppt)		aturation (%)	Disso Oxy		Turbidity	(NTU)	Suspende (mg.		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Gampling Depti	11 (111)	(m/s)	Direction	Value	Average	Value A	verage	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.6	208	27.9	27.9	8.3	8.3	31.1	31.1	107.3	107.3	7.1		4.3		17			
					Surface	1.0	0.6	202	27.9	21.9	8.3	0.3	31.1	31.1	107.3	107.3	7.1	7.0	4.3	Ī	16			
C1	Cloudy	Moderate	11:30	7.4	Middle	3.7	0.6	215	27.6	27.6	8.3	8.3	31.3	31.3	102.8	102.8	6.8	7.0	14.5	11.5	15	16	815596	804242
Ci	Cloudy	Woderate	11.30	7.4	Middle	3.7	0.6	220	27.6	27.0	8.3	0.5	31.3	31.3	102.7	102.0	6.8		14.8	11.5	14	10	013390	004242
					Bottom	6.4	0.5	201	27.5	27.5	8.2	8.2	31.3	31.3	100.1	100.0	6.6	6.6	15.9		15			
					Bottom	6.4	0.5	204	27.5	27.5	8.2	0.2	31.3	31.3	99.8	100.0	6.6	0.0	15.1		16			
					Surface	1.0	0.6	156	28.1	28.1	8.3	8.3	30.1	30.1	96.2	96.2	6.4		6.3		15			
					Surface	1.0	0.7	158	28.1	20.1	8.3	0.5	30.1	30.1	96.1	30.2	6.4	6.1	6.3		15			
C2	Cloudy	Moderate	12:58	10.9	Middle	5.5	0.6	177	27.6	27.6	8.3	8.3	30.7	30.7	87.2	87.2	5.8	0.1	10.5	9.9	18	17	825689	806964
02	Cloudy	Woderate	12.50	10.5	Middle	5.5	0.6	180	27.6	27.0	8.3	0.5	30.7	30.7	87.1	07.2	5.8		10.9	3.3	21	"	023003	000304
					Bottom	9.9	0.6	152	27.6	27.6	8.2	8.2	30.8	30.8	86.5	86.6	5.7	5.7	12.4		18			
					Bottom	9.9	0.6	148	27.6	27.0	8.2	0.2	30.8	30.0	86.6	00.0	5.7	5.7	12.8		17			
					Surface	1.0	0.4	68	27.0	27.0	8.2	8.2	29.1	29.1	85.0	84.9	5.8		4.6		4			
					Ourrace	1.0	0.3	64	26.9	27.0	8.2	0.2	29.1	23.1	84.7	04.5	5.7	5.8	4.5		5			
C3	Misty	Moderate	10:04	9.6	Middle	4.8	0.4	76	26.9	26.9	8.1	8.1	29.1	29.1	84.9	85.1	5.8	5.0	5.2	5.5	5	5	822130	817791
03	iviioty	Woderate	10.04	3.0	Middle	4.8	0.4	77	26.9	20.9	8.1	0.1	29.1	23.1	85.3	00.1	5.8		5.1	5.5	5	3	022130	017731
					Bottom	8.6	0.4	106	26.9	26.9	8.1	8.1	29.2 29.1	29.1	87.1	87.2	5.9	5.9	6.8		4			
					Bottom	8.6	0.4	100	26.9	20.9	8.1	0.1	29.1	23.1	87.3	07.2	5.9	5.5	6.9		4			
					Surface	1.0	0.5	184	27.6	27.6	8.4	8.4	31.3	31.3	90.0	90.0	6.0		14.3		17			
					Guildoo	1.0	0.4	191	27.6	27.0	8.4	0.4	31.3	01.0	90.0	00.0	6.0	6.0	14.5		16			
IM1	Cloudy	Moderate	11:51	6.3	Middle	3.2	0.4	183	27.5	27.5	8.4	8.4	31.4	31.4	90.1	90.2	6.0	0.0	14.9	15.0	15	16	818340	806441
	Cioday	moderate		0.0	- Inidaio	3.2	0.4	188	27.4	27.00	8.4	0	31.4	0	90.2	00.2	6.0		14.9		15	.0	0.00.0	000111
					Bottom	5.3	0.4	215	27.4	27.4	8.4	8.4	31.4	31.4	89.7	89.7	6.0	6.0	15.7		14			
					20110111	5.3	0.4	221	27.4		8.4	0	31.4	0	89.7	00.1	6.0	0.0	15.7		16			
					Surface	1.0	0.5	208	27.9	27.9	8.3	8.3	31.2	31.2	99.2	99.3	6.5		3.2		15			
						1.0	0.5	209	27.9		8.3		31.2		99.3		6.5	6.4	3.6		15			
IM2	Cloudy	Moderate	11:57	6.7	Middle	3.4	0.5	207	27.5	27.5	8.2	8.2	31.3	31.3	93.8	93.9	6.2	0	9.6	7.8	14	15	819160	806235
	,					3.4	0.5	200	27.5		8.2		31.3		93.9		6.2		9.9		12			
					Bottom	5.7	0.5	215	27.4	27.4	8.2	8.2	31.4	31.4	91.5	91.5	6.1	6.1	10.1		17			
						5.7	0.5	216	27.4		8.2		31.4		91.5		6.1		10.3		16			
					Surface	1.0	0.4	216	28.0	28.0	8.3	8.3	30.7	30.7	98.9	98.9	6.5		6.4		14			
						1.0	0.4	218	28.0		8.3		30.7		98.8		6.5	6.5	6.7		15			
IM7	Cloudy	Moderate	12:26	7.8	Middle	3.9	0.4	195	27.9	27.9	8.3	8.3	30.8	30.8	97.9	97.9	6.5		9.1	8.7	16	15	821351	806826
	2.244)		20		3010	3.9	0.4	189	27.9		8.3		30.8	23.0	97.8	5.10	6.5		9.3	]	15	.0	32.001	110020
					Bottom	6.8	0.3	191	27.7	27.8	8.3	8.3	31.1	31.1	93.3	93.3	6.2	6.2	10.1		16			
					20	6.8	0.3	197	27.8	20	8.3	3.0	31.1	J	93.3	00.0	6.2	0.2	10.4		15			

DA: Depth-Averaged

Water Quality Monitoring Results on 08 September 22 during Mid-Ebb Tide

		oring Kesu			06 September 22	g					,								,					
Monitoring	Weather	Sea	Sampling	Water	Complie - Dest	h ()	Current Speed	Current	Water Te	emperature (°C)		рН	Salin	ity (ppt)		aturation (%)	Disso Oxy		Turbidity	(NTU)	Suspende (mg/		Coordinate	Coordinat
Station	Condition	Condition	Time	Depth (m)	Sampling Dept	rı (m)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	HK Grid (Northing)	HK Grid (Easting)
					O. of a co	1.0	0.5	127	27.1	07.4	8.3	0.0	28.8	00.0	90.0	00.0	6.1		4.1		8			
					Surface	1.0	0.5	121	27.1	27.1	8.3	8.3	28.8	28.8	90.0	90.0	6.1		4.1	1	8			
IMAG	Minte	Madaust-	44.05		NA: dalla	4.4	0.5	119	27.0	27.0	8.3	0.2	28.8	20.0	90.4	00.5	6.1	6.1	5.1	١.,	8	0	000004	000000
IM10	Misty	Moderate	11:25	8.8	Middle	4.4	0.5	125	27.0	27.0	8.3	8.3	28.8	28.8	90.5	90.5	6.1		5.1	5.3	8	8	822261	809820
					Dottom	7.8	0.5	96	27.2	27.3	8.3	0.2	28.7	20.7	91.3	01.4	6.2	6.2	6.6	1	7			
			<u></u>		Bottom	7.8	0.5	100	27.3	21.3	8.3	8.3	28.7	28.7	91.5	91.4	6.2	0.∠	6.6	<u> </u>	8			
					Surface	1.0	0.5	86	27.4	27.4	8.2	8.2	28.5	28.5	97.5	97.7	6.6		7.4		13			
					Sullace	1.0	0.5	86	27.4	27.4	8.2	0.2	28.5	20.5	97.9	91.1	6.6	6.7	7.5	1	12			
IM11	Misty	Moderate	11:14	9.0	Middle	4.5	0.5	116	27.2	27.2	8.3	8.3	28.7	28.7	99.1	99.2	6.7	6.7	8.2	8.2	10	10	821504	810562
IIVIII	iviisty	Moderate	11.14	9.0	Middle	4.5	0.5	123	27.1	21.2	8.3	5.5	28.7	20.7	99.3	99.2	6.7		8.1	0.2	8	10	021304	010302
					Bottom	8.0	0.6	91	26.8	26.8	8.3	8.3	28.9	28.9	100.1	100.2	6.8	6.8	9.0	1	8			
					Bottom	8.0	0.5	84	26.7	20.0	8.3	0.5	28.9	20.9	100.2	100.2	6.8	0.0	9.0		7			
					Surface	1.0	0.6	87	27.2	27.2	8.3	8.3	28.6	28.6	95.1	95.1	6.4		7.8		12			
					Guilace	1.0	0.6	91	27.2	21.2	8.3	0.0	28.6	20.0	95.1	33.1	6.4	6.5	7.7		10			
IM12	Misty	Moderate	11:06	7.2	Middle	3.6	0.7	119	26.9	26.9	8.3	8.3	28.8	28.8	95.3	95.4	6.5	0.0	8.8	8.5	10	9	821155	811497
IIVIIZ	whoty	Moderate	11.00	7.2	Wilddic	3.6	0.7	118	26.9	20.0	8.3	0.0	28.8	20.0	95.4	50.4	6.5		8.9	0.0	8	0	021100	011407
					Bottom	6.2	0.6	119	26.7	26.7	8.3	8.3	28.9	28.9	99.3	99.5	6.8	6.8	9.1		7			
					Dotto	6.2	0.6	125	26.6	20.1	8.3	0.0	29.0	20.0	99.6	00.0	6.8	0.0	9.0		8			
					Surface	1.0	0.1	92	27.5	27.5	8.2	8.2	28.6	28.6	95.7	95.7	6.4		6.6		5			
					Cundo	1.0	-	97	27.5	20	8.2	0.2	28.6	20.0	95.7	00	6.4	6.4	6.5		4			
SR1A	Misty	Moderate	10:43	4.0	Middle	2.0	-	90	-	-	-	-	-	-	-	-	-		-	7.0	-	5	819976	812657
-				-		2.0	-	95	-		-		-		-		-		-		-			
					Bottom	3.0	-	83	27.5	27.5	8.2	8.2	28.6	28.5	95.5	95.7	6.4	6.5	7.4		5			
						3.0	0.0	79	27.5		8.2		28.5		95.9		6.5		7.5		5			
					Surface	1.0	0.6	37	27.4	27.4	8.2	8.2	28.6	28.6	93.7	93.6	6.3		4.4	Į.	3			
						1.0	0.5	37	27.4		8.2		28.6		93.5		6.3	6.3	4.4	ł	5			
SR2	Misty	Moderate	10:30	4.4	Middle	-	0.5	56	-	-	-	-	-	-	-	-	-		-	4.7	-	5	821475	814167
						3.4	0.5 0.5	62 54	27.5		-		-		94.0		6.3		5.0	ł	- 5			
					Bottom	3.4	0.5	56	27.5	27.5	8.2	8.2	28.6 28.6	28.6	94.0	94.4	6.4	6.4	5.0	ł	6			
						1.0	0.6	154	28.3				30.2		98.6		6.5		5.0		14			
					Surface	1.0	0.6	160	28.3	28.3	8.3	8.3	30.2	30.2	98.6	98.6	6.5		5.3	1	15			
						4.3	0.6	165	27.7		8.2		30.2		90.0		6.0	6.3	9.4	1	14			
SR3	Cloudy	Moderate	12:34	8.5	Middle	4.3	0.6	168	27.6	27.7	8.2	8.2	30.8	30.8	89.8	89.9	6.0		9.5	9.6	16	15	822151	807571
						7.5	0.6	182	27.6		8.2		30.9		89.0		5.9		14.2		15			
					Bottom	7.5	0.6	182	27.6	27.6	8.2	8.2	30.9	30.9	89.1	89.1	5.9	5.9	14.5		15			
						1.0	0.0	84	28.1		8.2		30.8		108.3		7.1		3.8		19			
					Surface	1.0	0.0	87	28.1	28.1	8.2	8.2	30.8	30.8	108.2	108.3	7.1		3.9	1	17			
0544						4.6	-	62	27.5	07.5	8.2		31.2	0.1.0	101.9	400.0	6.8	7.0	6.9		18		0.474.0-	
SR4A	Cloudy	Moderate	11:13	9.2	Middle	4.6	-	67	27.5	27.5	8.2	8.2	31.2	31.2	102.0	102.0	6.8		6.9	6.7	17	18	817197	807824
					D-//	8.2	0.0	89	27.5	07.5	8.1	0.1	31.3	04.0	96.5	00.0	6.4		9.4	1	17			
					Bottom	8.2	0.0	90	27.5	27.5	8.1	8.1	31.3	31.3	96.6	96.6	6.4	6.4	9.2	1	18			
				l	O. of a co	1.0	-	-	27.6	07.0	8.2	0.0	28.4	00.5	93.0	00.0	6.3		8.8		13			
					Surface	1.0	-	-	27.5	27.6	8.2	8.2	28.5	28.5	93.0	93.0	6.3		8.8	1	13			
CDO	Minte	Madaust-	44.00	5.4	NA: dalla	-	-	-	-		-		-		-		-	6.3	-		-	44	000404	044004
SR8	Misty	Moderate	11:02	5.4	Middle	-	-	-	-	-	-	-	-	-	-	-	-		-	8.9	-	11	820404	811604
					Pottom	4.4	-	-	27.5	27.5	8.2	0.2	28.5	20 5	94.2	04.4	6.3	6.4	9.0	1	10			
			1	i	Bottom	4.4	-	_	27.5	27.5	8.2	8.2	28.5	28.5	94.6	94.4	6.4	6.4	9.0	1	8			1

Water Quality Monitoring Results on 08 September 22 during Mid-Flood Tide

water Qua	ity wonit	oring Resu	แร บท		08 September 22	auring Mia-	riooa ii	ae																
Monitoring	Weather	Sea	Sampling	Water			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 Depti	n (m)	(m/s)	Direction	Value	Average	Value Av	erage	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	HK Grid (Northing)	HK Grid (Easting)
						1.0	0.4	41	28.0		8.3		30.9		93.7		6.2		10.9		8			
					Surface	1.0	0.4	34	27.9	28.0	8.2	8.2	30.9	30.9	93.6	93.7	6.2		10.3	1	9			
						4.2	0.4	20	27.9		9.2		31.0		92.6		6.1	6.2	12.2	1	10			
C1	Rainy	Moderate	18:07	8.4	Middle	4.2	0.4	23	27.9	27.9	8.2	8.2	31.0	31.0	92.7	92.7	6.1		12.1	12.6	8	9	815600	804252
						7.4	0.3	51	27.9		9.2		31.1		89.1		5.9		15.1	1	9			
					Bottom	7.4	0.3	47	27.9	27.9	8.2	8.2	31.0	31.0	89.0	89.1	5.9	5.9	15.0	1	9			
						1.0	0.3	179	28.2		8.3		29.6		100.0		6.6		6.5		7			
					Surface	1.0	0.2	175	28.2	28.2	8.3	8.3	29.6 29.7	29.6	100.0	100.0	6.6	0.4	6.6	1	7			
00	Deles	Madazata	47.07	40.0	NAC-J-II-	5.4	0.3	173	28.0	00.0	0.2	0.0		00.4	94.4	04.0	6.2	6.4	7.0		10	4.4	005000	000000
C2	Rainy	Moderate	17:07	10.8	Middle	5.4	0.3	169	28.0	28.0	8.3	8.3	30.1	30.1	94.2	94.3	6.2		7.0	8.9	8	11	825666	806938
					Bottom	9.8	0.3	156	27.8	27.8	9.2	0.0		30.8	87.0	87.1	5.8	5.8	13.1	1	11			
					Bottom	9.8	0.3	152	27.8	27.8	8.2	8.2	30.8	30.8	87.2	87.1	5.8	5.8	13.2		24			
					Surface	1.0	0.4	268	27.3	27.3	8.2	8.2	28.7	28.7	94.7	94.7	6.4		4.1		5			
					Surface	1.0	0.4	275	27.3	21.3	8.2	8.2	28.7	28.7	94.7	94.7	6.4	6.5	4.2	1	6			
СЗ	Misty	Moderate	18:11	7.6	Middle	3.8	0.5	270	27.1	27.1	8.2	8.2	28.8	28.8	95.3	95.4	6.5	6.5	5.3	5.2	7	7	822094	817792
0.3	iviisty	Moderate	10.11	7.0	Wilddle	3.8	0.5	272	27.1	27.1	8.2	0.2	28.8	20.0	95.5	33.4	6.5		5.3	3.2	7	,	022094	017792
					Bottom	6.6	0.5	273	26.7	26.7	8.2	8.2	29.0	29.0	97.3	97.6	6.6	6.7	6.1		7			
					Bottom	6.6	0.5	275	26.7	20.7	8.2	0.2	29.1	23.0	97.8	37.0	6.7	0.7	6.1		7			
					Surface	1.0	0.1	30	28.2	28.2	8.3	8.3	30.9	30.9	102.7	102.7	6.8		14.0		9			
					Guillago	1.0	0.1	37	28.2	20.2	8.3	0.0		00.0	102.6	102.1	6.7	6.6	13.4	_	10			
IM1	Rainy	Moderate	17:51	6.2	Middle	3.1	0.1	15	27.8	27.8	8.2	8.2	31.3	31.3	97.6	97.4	6.4	0.0	13.1	14.2	10	10	818340	806456
						3.1	0.1	15	27.7		8.2				97.2	****	6.4		13.7	1	10			
					Bottom	5.2	0.1	30	27.7	27.7	8.2	8.2	31.5 31.4	31.4	90.9	91.0	6.0	6.0	15.7	_	10			
						5.2	0.2	26	27.7		8.2				91.1		6.0		15.3		10			
					Surface	1.0	0.1	320	28.2	28.2	8.4	8.4	31.3	31.3	131.0	130.3	8.6		2.5	_	7			
						1.0	0.0	315	28.2		8.4				129.5		8.5	7.9	2.6	1	8			
IM2	Rainy	Moderate	17:44	6.9	Middle	3.5	0.0	299	27.6	27.6	8.4	8.4	31.3	31.3	110.0	110.0	7.3		4.7	7.9	7	8	819179	806223
	-					3.5	0.0	298	27.6		8.4		31.4		109.9		7.3		4.7	4	8			
					Bottom	5.9	0.1	289	27.5	27.5	8.3	8.3	31.4	31.4	96.0	96.1	6.4	6.4	16.1	4	9			
						5.9	0.1	283	27.5		8.3				96.1		6.4		16.7	<u> </u>	8			
					Surface	1.0 1.0	0.2	285	28.2 28.2	28.2	8.2	8.2	30.0	30.0	100.0	100.1	6.6		9.6	1	10			
						3.7	0.2	280 261									6.6	6.6	9.6	1	11			
IM7	Rainy	Moderate	17:27	7.3	Middle	3.7	0.1	254	28.1 28.1	28.1	8.2	8.2	30.0	30.0	98.1 97.9	98.0	6.5		9.7 9.6	11.6	9	10	821349	806858
						6.3	0.1	285	28.1						96.6		6.4		15.4	1	12			
					Bottom	6.3	0.2	283	28.1	28.1	8.2 8.2	8.2	30.0	30.0	96.8	96.5	6.4	6.4	15.4	-	10			
						0.3	0.2	∠83	20.1		0.2		30.0		90.3		0.4		10.5		10			

DA: Depth-Averaged

Water Quality Monitoring Results on 08 September 22 during Mid-Flood Tide

Water Qua	,	orning recou			06 September 22	auring ima		-																
Monitoring	Weather	Sea	Sampling	Water	O-market Donat	h ()	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 Dept	n (m)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	HK Grid (Northing)	HK Grid (Easting)
					0 /	1.0	0.2	249	28.1	00.4	8.6		27.5		104.0	400.0	7.0		7.0		12			
					Surface	1.0	0.2	247	28.1	28.1	8.6	8.6	27.5	27.5	103.7	103.9	7.0		7.0	1	10			
						4.6	0.2	227	28.0		8.6		27.5		98.6		6.6	6.8	8.5	1	12			
IM10	Misty	Moderate	17:06	9.2	Middle	4.6	0.1	231	28.0	28.0	8.6	8.6	27.5	27.5	98.6	98.6	6.6		8.9	8.2	11	11	822247	809836
						8.2	0.1	222	28.0		8.6		27.4		98.3		6.6		9.1	1	11			
					Bottom	8.2	0.2	223	28.0	28.0	8.6	8.6	27.4	27.4	98.3	98.3	6.6	6.6	9.0	1	10			
					2 (	1.0	0.3	260	27.8	07.0	8.3		27.9		99.0		6.7		6.2		8			
					Surface	1.0	0.2	253	27.8	27.8	8.3	8.3	27.9	27.9	98.8	98.9	6.6	0.0	6.1	i	9			
18.44.4		Madaata	47.44	0.4	NAC-J-II-	4.2	0.2	268	27.8	07.0	8.3	0.0	28.0	00.0	98.7	00.0	6.6	6.6	7.7	٦,	10	•	004400	040504
IM11	Misty	Moderate	17:11	8.4	Middle	4.2	0.2	269	27.8	27.8	8.3	8.3	28.0	28.0	98.8	98.8	6.6		7.6	7.4	9	9	821496	810524
					D. II.	7.4	0.2	271	27.8	07.0	8.3	0.0	27.9	07.0	99.4	00.5	6.7	0.7	8.4	i	8			
					Bottom	7.4	0.2	270	27.8	27.8	8.3	8.3	27.9	27.9	99.6	99.5	6.7	6.7	8.4	1	10			
					0	1.0	0.3	289	27.7	07.7	8.3	0.0	28.1	00.0	97.3	07.0	6.5		6.5		8			
					Surface	1.0	0.3	285	27.7	27.7	8.3	8.3	28.2	28.2	97.3	97.3	6.5	0.0	6.4	1	7			
13.440		Madaata	47.40	0.0	NAC-JUIL-	3.4	0.3	285	27.7	07.7	8.3	0.0	28.2	00.0	97.5	07.0	6.6	6.6	7.4	7.0	6	-	004400	044540
IM12	Misty	Moderate	17:16	6.8	Middle	3.4	0.3	292	27.7	27.7	8.3	8.3	28.2	28.2	97.7	97.6	6.6		7.4	7.3	6	7	821166	811513
					D. II.	5.8	0.3	273	27.7	07.7	8.3	0.0	28.2	00.4	98.6	00.0	6.6	0.7	8.1	i	8			
					Bottom	5.8	0.3	274	27.7	27.7	8.3	8.3	28.1	28.1	99.0	98.8	6.7	6.7	8.0	i	8			
					2 (	1.0	0.0	190	27.6	07.0	8.2		28.6		97.5		6.6		7.2		6			
					Surface	1.0	0.1	190	27.6	27.6	8.2	8.2	28.6	28.6	97.9	97.7	6.6	0.0	7.2	i	6			
CD4A	Minter	Madagata	47.00	5.0	Middle	2.6	0.0	190	-		-		-		-		-	6.6	-	7.0	-		040070	040050
SR1A	Misty	Moderate	17:38	5.2	ivildale	2.6	0.0	195	-	-	-	-	-	1 -	-	-	-		-	7.8	-	6	819976	812659
					Bottom	4.2	-	206	27.5	27.5	8.2	8.2	28.6	28.2	98.3	98.2	6.6	6.6	8.5	1	6			
					Bollom	4.2	0.0	205	27.5	27.5	8.2	8.2	27.9	28.2	98.0	98.2	6.6	0.0	8.4	1	6			
					Surface	1.0	0.1	231	27.5	27.5	8.2	8.2	28.3	28.3	96.1	96.2	6.5		7.7		4			
					Surface	1.0	0.1	226	27.5	27.5	8.2	8.2	28.4	28.3	96.3	96.2	6.5	6.5	7.6	1	5			
SR2	Mioty	Moderate	17:50	5.6	Middle	-	0.1	239	-	_	-		-	_	-		-	6.5	-	7.9	-	5	821463	814183
SKZ	Misty	Moderate	17.50	5.6	Middle	-	0.1	232	-	-	-	-	-	1 -	-	-	-		-	7.9	-	5	021403	014103
					Bottom	4.6	0.1	242	27.4	27.5	8.2	8.2	28.3	28.2	97.4	97.7	6.6	6.6	8.2	1	5			
					DOLLOITI	4.6	0.1	240	27.5	27.5	8.2	0.2	28.2	20.2	98.0	91.1	6.6	0.0	8.2		6			
					Surface	1.0	0.1	200	28.1	28.1	8.3	8.3	30.1	30.1	96.5	96.5	6.4		8.2		6			
					Surface	1.0	0.2	201	28.1	20.1	8.3	0.5	30.1	30.1	96.5	90.5	6.4	6.4	8.8		7			
SR3	Rainy	Moderate	17:22	8.3	Middle	4.2	0.1	174	28.1	28.1	8.2	8.2	30.1	30.1	95.7	95.7	6.3	0.4	13.6	12.1	6	7	822159	807578
ONS	ixaniy	Moderate	17.22	0.5	Middle	4.2	0.1	168	28.1	20.1	8.2	0.2	30.1	30.1	95.6	33.1	6.3		13.4	12.1	7	,	022133	007570
					Bottom	7.3	0.1	193	28.1	28.1	8.2	8.2	30.1	30.1	94.3	94.1	6.2	6.2	14.0	1	7			
					Dottom	7.3	0.1	197	28.1	20.1	8.2	0.2	30.1	30.1	93.9	34.1	6.2	0.2	14.4		8			
<u> </u>					Surface	1.0	0.1	210	28.3	28.3	8.3	8.3	30.8	30.8	106.6	106.6	7.0		12.1		21			
					Junace	1.0	0.1	206	28.3	20.5	8.3	0.0	30.8	30.0	106.6	100.0	7.0	7.0	12.0		19			
SR4A	Rainy	Moderate	18:25	8.2	Middle	4.1	0.0	219	28.3	28.3	8.3	8.3	30.8	30.8	105.5	105.5	6.9	7.0	14.6	14.5	22	20	817193	807817
0.11.11		moderate	10.20	0.2	madic	4.1	0.0	223	28.3	20.0	8.3	0.0	30.8	00.0	105.4	100.0	6.9		14.2		24		011.00	00.0
					Bottom	7.2	0.0	221	28.4	28.4	8.2	8.2	30.8	30.8	100.2	100.0	6.6	6.6	16.9		22			
						7.2	0.0	224	28.4	20	8.2	J	30.8	00.0	99.8	.00.0	6.5	0.0	17.0		12			
					Surface	1.0	-	-	28.0	28.0	8.2	8.2	28.4	28.4	93.6	93.7	6.3		4.4		6			
						1.0	-	-	28.0	20.0	8.2	0.2	28.4		93.7	00	6.3	6.3	4.3	1	6			
SR8	Misty	Moderate	17:22	4.2	Middle	-	-	-	-	-	-	_	-	_	-	_	-	0.0	-	4.7	-	6	820368	811605
20						-	-	-	-		-		-		-		-		-		-		020000	0550
					Bottom	3.2	-	-	27.9	27.9	8.2	8.2	28.4	28.4	94.0	94.1	6.3	6.3	5.1		7			
					Dottom	3.2	-	-	27.9	27.0	8.2	5.2	28.4	20.7	94.2	J F. 1	6.3	5.0	5.1		6			

Water Quality Monitoring Results on 10 September 22 during Mid-Ebb Tide

Water Qua	iity woiiit	oring Resu	ito on		10 September 22	during wild-	EDD HIGH	7																
Monitoring	Weather	Sea	Sampling	Water	Sampling Depti	h (m)	Current Speed	Current	Water Te	emperature (°C)	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 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	0.6	219	28.4	28.4	8.2	8.2	30.8	30.8	95.4	95.4	6.3		4.3		7			
					Sulface	1.0	0.6	220	28.4	20.4	8.2	0.2	30.8	30.6	95.4	93.4	6.3	6.2	4.3	1	8			
C1	Cloudy	Moderate	13:47	7.8	Middle	3.9	0.6	220	28.1	28.1	8.2	8.2	31.0 31.0	31.0	92.7	92.7	6.1	0.2	14.5	11.5	8	8	815640	804268
O1	Cloudy	Moderate	13.47	7.0	Middle	3.9	0.6	223	28.1	20.1	8.2	0.2	31.0	31.0	92.7	32.1	6.1		14.8	11.5	9	0	013040	004200
					Bottom	6.8	0.6	214	28.0	28.0	8.1	8.1	31.0 31.0	31.0	88.2	88.2	5.8	5.8	15.9		9			
					Dottom	6.8	0.6	208	28.0	20.0	8.1	0.1		31.0	88.2	00.2	5.8	3.0	15.1		8			
					Surface	1.0	0.5	170	28.6	28.6	8.2	8.2	29.8 29.8	29.8	89.1	89.1	5.9		6.3		8			
					Ounace	1.0	0.6	168	28.6	20.0	8.2	0.2		23.0	89.1	03.1	5.9	5.8	6.3		7			
C2	Cloudy	Moderate	12:31	11.2	Middle	5.6	0.5	158	28.1	28.1	8.2	8.2	30.4	30.4	86.5	86.5	5.7	3.0	10.5	9.9	9	9	825698	806949
02	Cioday	Moderate	12.51	11.2	ivildale	5.6	0.6	153	28.1	20.1	8.2	0.2		30.4	86.5	00.5	5.7		10.9	3.3	9	3	023030	000343
					Bottom	10.2	0.6	152	28.1	28.1	8.2	8.2	30.5	30.5	83.2	83.2	5.5	5.5	12.4		9			
					Bottom	10.2	0.6	148	28.1	20.1	8.2	0.2		00.0	83.2	00.2	5.5	0.0	12.8		10			
					Surface	1.0	0.4	79	27.8	27.8	8.0	8.0	31.5	31.5	81.9	81.8	5.4		4.1		9			
					Carrace	1.0	0.4	84	27.7	27.0	8.0	0.0	31.6	01.0	81.7	01.0	5.4	5.2	4.2		9			
СЗ	Cloudy	Moderate	11:23	12.3	Middle	6.2	0.4	88	27.5	27.5	8.0	8.0	32.2	32.2	73.8	73.7	4.9	0.2	6.0	6.0	9	9	822104	817799
00	Cloudy	Woderate	11.20	12.0	IVIIdaio	6.2	0.4	85	27.5	27.0	8.0	0.0		02.2	73.6	70.7	4.9		6.4	0.0	9		022104	011100
					Bottom	11.3	0.4	96	27.4	27.4	7.9	7.9	32.4	32.4	73.9	74.0	4.9	4.9	7.7		10			
					Bottom	11.3	0.4	101	27.4	27.4	7.9	7.0		02.4	74.1	74.0	4.9	4.0	7.4		10			
					Surface	1.0	0.5	203	28.3	28.3	8.2	8.2	30.2	30.2	90.2	90.2	5.9		6.1	_	7			
						1.0	0.5	206	28.3	20.0	8.2	0.2	30.2	00.2	90.2	00.2	5.9	5.9	6.1	_	7			
IM1	Cloudy	Moderate	13:29	6.2	Middle	3.1	0.4	175	28.0	28.0	8.2	8.2	30.9	30.9	89.4	89.2	5.9	0.0	7.8	10.5	8	8	818338	806462
	0.000,			V		3.1	0.5	171	27.9		8.2				88.9		5.9		7.6		7	_		
					Bottom	5.2	0.4	185	27.9	27.9	8.1	8.1	31.3	31.3	82.7	82.8	5.5	5.5	17.6	4	9			
						5.2	0.4	181	27.9		8.1				82.8		5.5		18.1		8			
					Surface	1.0	0.5	202	28.4	28.4	8.2	8.2	30.2	30.2	97.1	97.1	6.4		5.8	4	12			
						1.0	0.5	198	28.3		8.2				97.0		6.4	6.1	6.0	_	11			
IM2	Cloudy	Moderate	13:22	6.6	Middle	3.3	0.5	192	28.0	28.0	8.2	8.2	30.4	30.4	87.4	87.4	5.8		7.1	6.6	10	10	819159	806222
	,					3.3	0.5	199	28.0		8.2				87.3		5.8		7.1		9			
					Bottom	5.6	0.5	213	28.0	28.0	8.2	8.2	30.5	30.6	86.0	86.0	5.7	5.7	6.9	4	8			
						5.6	0.5	205	28.0		8.2				85.9		5.7		6.8		9			
					Surface	1.0	0.3	183	28.6	28.6	8.2	8.2	29.9 30.0	30.0	91.2	91.1	6.0		4.7	-	12			
						1.0	0.3	183	28.5		8.2				91.0		6.0	6.0	5.1	-	12			
IM7	Cloudy	Moderate	13:05	8.1	Middle	4.1	0.3	190	28.3	28.3	8.1	8.1	30.5	30.5	89.6	89.6	5.9		8.0	7.5	12	11	821330	806857
						4.1	0.4	194	28.3		8.1		30.5		89.5		5.9		8.3	-	10			
					Bottom	7.1	0.3	170	28.3	28.3	8.1	8.1	30.6	30.6	89.7	89.8	5.9	5.9	9.5	-	10			
						7.1	0.3	176	28.3		8.1	-	30.6		89.8		5.9		9.5		10			

DA: Depth-Averaged

Water Quality Monitoring Results on 10 September 22 during Mid-Ebb Tide

Trate: qua:	,	oring Resu			10 September 22	during wild		•																
Monitoring	Weather	Sea	Sampling	Water	Sampling Dep	th (m)	Current Speed	Current	Water Te	mperature (°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		(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.5	100	28.3	28.3	8.2	8.2	30.4	30.4	86.7	86.6	5.7		8.6		9			
					Juliace	1.0	0.5	104	28.3	20.3	8.2	0.2	30.5	30.4	86.4	00.0	5.7	5.7	8.7		9			
IM10	Cloudy	Moderate	13:00	7.7	Middle	3.9	0.5	129	28.2	28.2	8.1	8.1	30.6	30.6	85.6	85.6	5.6	5.7	10.4	10.6	10	11	822231	809844
	Sioday	·viodorate	10.00		Wildelie	3.9	0.5	132	28.2	20.2	8.1	0.1	30.6	00.0	85.6	55.5	5.6		10.3	10.0	11		022201	0000-14
					Bottom	6.7	0.5	115	28.2	28.2	8.1	8.1	30.6	30.6	85.7	85.7	5.6	5.6	12.8		14			
						6.7	0.5	113	28.2		8.1		30.6	- 5.0	85.6		5.6	0	12.9		15			
					Surface	1.0	0.6	97	28.3	28.3	8.2	8.2	30.0	30.0	84.5	84.5	5.6		6.4	ļ	10			
l j						1.0	0.6	101	28.3		8.2		30.0		84.4		5.6	5.6	6.4		10			
IM11	Cloudy	Moderate	12:52	7.5	Middle	3.8	0.6	105	28.2	28.2	8.2	8.2	30.1	30.1	83.9	83.9	5.5		8.6	9.2	10	11	821491	810548
j	-					3.8	0.6	109	28.2		8.2		30.1		83.9		5.5		9.2	l	11			
]					Bottom	6.5 6.5	0.6	101 95	28.2	28.2	8.1 8.1	8.1	30.1	30.1	84.8	84.9	5.6 5.6	5.6	12.1 12.4	1	12 11			
						1.0	0.6	95 112	28.2		_													
]					Surface	1.0	0.7	105	28.2	28.2	8.1 8.1	8.1	30.1	30.1	84.2	84.2	5.6 5.6		9.5 9.7	ł	10 10			
						4.6	0.6	112	28.2		8.1		30.1		83.7	-	5.5	5.6	10.1		10			
IM12	Cloudy	Moderate	12:30	9.2	Middle	4.6	0.6	114	28.1	28.1	8.1	8.1	30.1	30.1	83.7	83.7	5.5		11.0	10.9	13	12	821150	811542
j						8.2	0.6	102	28.1		8.1		30.1		83.6		5.5		12.4		13			
j					Bottom	8.2	0.5	102	28.1	28.1	8.1	8.1	30.1	30.1	83.6	83.6	5.5	5.5	12.4		14			
			1		_	1.0	0.0	60	28.3		8.1		30.5		82.9		5.5		6.2		11			
					Surface	1.0	0.0	61	28.3	28.3	8.1	8.1	30.5	30.5	82.7	82.8	5.4	l	6.1		12			
0044	01 1		1.000			2.9	0.0	68	-		-		-		-		-	5.5	-		-			
SR1A	Cloudy	Moderate	12:03	5.8	Middle	2.9	0.0	65	-	-	-	-	-	-	-	1 -	-		-	5.9	-	12	819980	812666
					Dettern	4.8	0.0	62	28.2	20.2	8.0	0.0	30.5	20.5	81.1	04.4	5.3	- 2	5.7	1	13			
<u> </u>			<u> </u>		Bottom	4.8	0.0	65	28.2	28.2	8.0	8.0	30.5	30.5	81.0	81.1	5.3	5.3	5.7	L	13			<u> </u>
		-		-	Surface	1.0	0.4	59	28.4	28.4	8.1	8.1	30.0	30.0	87.6	87.6	5.8		4.9		10			
					Sunace	1.0	0.4	55	28.4	20.4	8.1	0.1	30.0	30.0	87.6	07.0	5.8	5.8	5.1		11			
SR2	Cloudy	Moderate	11:48	4.8	Middle	-	0.4	59	-		-	_		_	-		-	5.0	-	6.5	-	10	821471	814158
UNZ.	Cioday	ivioudiale	11.40	7.0	iviidule	-	0.4	52	-		-		-	-	-		-		-	0.5	-	10	0214/1	01+130
1					Bottom	3.8	0.4	67	28.0	28.0	8.0	8.0	30.6	30.6	82.1	82.1	5.4	5.4	8.0	1	10			
					Dottom	3.8	0.4	67	28.0	20.0	8.0	0.0	30.6	00.0	82.1	02.1	5.4	0.7	8.1		8			
				·	Surface	1.0	0.5	157	28.2	28.2	8.2	8.2	30.2	30.2	84.9	84.8	5.6		6.9		5			
l i						1.0	0.5	163	28.1	20.2	8.2		30.3	00.2	84.6	00	5.6	5.6	6.9		6			
SR3	Cloudy	Moderate	12:59	8.9	Middle	4.5	0.5	166	28.0	28.0	8.1	8.1	30.6	30.6	83.2	83.1	5.5		7.9	12.4	6	7	822123	807571
	,					4.5	0.5	167	28.0		8.1		30.6		83.0		5.5		8.1		7			
l i					Bottom	7.9	0.5	158	28.0	28.0	8.1	8.1	30.7	30.7	83.1	83.1	5.5	5.5	21.2		8			
<u> </u>						7.9	0.4	150	28.0	-	8.1		30.7		83.1		5.5		23.3		8			
1					Surface	1.0	0.0	20	28.6	28.6	8.1	8.1	30.6	30.6	92.5	92.5	6.0		3.8	ļ	8			
l i						1.0	0.0	16	28.6		8.1		30.6		92.5		6.0	6.0	3.9	ļ	7			
SR4A	Cloudy	Moderate	14:05	9.1	Middle	4.6 4.6	0.0	37	28.0	28.0	8.1	8.1	30.9	30.9	91.2	91.2	6.0		6.9	6.7	9	8	817197	807800
<b> </b>   1							0.1	34	28.0		8.1		30.9		91.2				6.9		8			
<b> </b>   1					Bottom	8.1 8.1	0.0	7 12	28.0 28.0	28.0	8.1 8.1	8.1	31.0	31.0	86.6 86.6	86.6	5.7 5.7	5.7	9.4 9.2		8			
<del>                                     </del>			1		<u> </u>	1.0	- 0.0									<del></del>			8.0		8			
l i					Surface	1.0	-	-	28.2	28.2	8.1 8.1	8.1	30.3	30.3	87.8 88.3	88.1	5.8 5.8		8.0	ł	9			
l i						1.0	-	-	- 20.2		0.1		30.3		- 00.3		5.6	5.8	- 0.2	ł	-			
SR8	Cloudy	Moderate	12:26	5.0	Middle	-	-	-	-	-	-	-	-	-	<del></del>	-	-			8.4	<u> </u>	8	820383	811645
l i						4.0	-	-	28.1		8.1		30.3		89.4		5.9		8.7	ł	7			
					Bottom	4.0	-	-	28.2	28.2	8.1	8.1	30.3	30.3	89.7	89.6	5.9	5.9	8.9		7			
DA: Donth Aver			1		l .	7.∪	_	_	20.2		0.1		50.5		00.7	L	5.5		0.9		'		l	l

Water Quality Monitoring Results on 10 September 22 during Mid-Flood Tide

water Quai	ity wonit	oring Resu	แร งก		10 September 22	auring wia-	rioda II	ue																
Monitoring	Weather	Sea	Sampling	Water	October 19 control	. ()	Current Speed	Current	Water Te	emperature (°C)	рН	1	Salin	ity (ppt)		aturation (%)	Disso Oxy		Turbidity	(NTU)	Suspende (mg.		Coordinate	Coordinate
Station	Condition	Condition	Time	Depth (m)	Sampling Depti	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)
						1.0	0.3	18	28.5		8.1		30.7		83.3		5.5		10.9		9			
					Surface	1.0	0.3	13	28.4	28.5	8.1	8.1	30.7	30.7	83.2	83.3	5.5		10.3	1	10			
						4.3	0.3	29	28.4		8.1		30.8		82.2		5.4	5.5	12.2	1	9	_		
C1	Rainy	Moderate	19:09	8.6	Middle	4.3	0.4	21	28.4	28.4	8.1	8.1	30.8	30.8	82.3	82.3	5.4		12.1	12.6	8	8	815611	804248
						7.6	0.3	48	28.4		8.1				78.7		5.2		15.1	1	6			
					Bottom	7.6	0.3	52	28.4	28.4	8.0	8.0	30.8	30.8	78.6	78.7	5.1	5.2	15.0	1	6			
					0 /	1.0	0.1	165	28.7		8.2		29.4	00.4	94.8	04.0	6.2		6.5		5			
					Surface	1.0	0.1	170	28.7	28.7	8.2	8.2	29.4 29.4	29.4	94.8	94.8	6.2	6.1	6.6	1	6			
C2	Dainu	Madazata	40.00	10.8	Middle	5.4	0.1	171	28.5	28.5	8.2	8.2	29.8	29.9	89.2	89.1	5.9	0.1	7.0	8.9	8	7	825663	806949
62	Rainy	Moderate	18:09	10.8	Middle	5.4	0.1	172	28.5	28.5	8.2	8.2	29.8 29.9	29.9	89.0	89.1	5.9		7.0	8.9	7	1	823003	806949
					Bottom	9.8	0.1	164	28.3	28.3	8.2	8.2	30.5 30.5	30.5	81.8	81.9	5.4	5.4	13.1	1	7			
					BOLLOITI	9.8	0.2	161	28.3	20.3	8.2	0.2	30.5	30.3	82.0	01.9	5.4	5.4	13.2		7			
					Surface	1.0	0.5	269	28.3	28.3	8.1	8.1	30.5 30.5	30.5	84.1	84.0	5.5		15.1		10			
					Sulface	1.0	0.4	269	28.3	20.5	8.1	0.1		30.3	83.8	04.0	5.5	5.5	15.7		9			
C3	Cloudy	Moderate	19:30	10.4	Middle	5.2	0.4	275	28.2	28.2	8.0	8.0	30.7	30.7	82.5	82.4	5.4	0.0	15.2	15.8	8	8	822114	817794
00	Cicacy	moderate	10.00		madio	5.2	0.4	269	28.2	20.2	8.0	0.0		00.7	82.3	02	5.4		15.2		8	Ü	OLL	011101
					Bottom	9.4	0.5	277	28.2	28.2	8.0	8.0	30.8	30.7	82.1	82.2	5.4	5.4	16.8	_	6			
						9.4	0.5	283	28.2		8.0				82.2		5.4		16.8	<u> </u>	8			
					Surface	1.0	0.2	23	28.7	28.7	8.1	8.1	30.6 30.6	30.6	92.3	92.3	6.0		14.0	4	8			
						1.0	0.2	18	28.7		8.1				92.2		6.0	5.9	13.4	4	7			
IM1	Rainy	Moderate	18:53	6.4	Middle	3.2 3.2	0.2	358	28.3 28.2	28.3	8.1 8.1	8.1	31.0	31.1	87.2 86.8	87.0	5.7 5.7		13.1 13.7	14.2	6	7	818337	806480
						5.4	0.2	358	28.2		8.0				80.5		5.3		15.7	-	6			
					Bottom	5.4	0.1	358	28.2	28.2	8.0	8.0	31.2	31.2	80.7	80.6	5.3	5.3	15.7	-	6			
						1.0	0.1	271	28.7		8.3				110.2		6.4		2.5		6			
					Surface	1.0	0.1	272	28.7	28.7	8.3	8.3	31.0 31.0	31.0	108.7	109.5	6.4		2.6	1	6			
						3.4	0.1	282	28.1		8.2		31.1		99.6		6.1	6.3	4.7	1	8			
IM2	Rainy	Moderate	18:46	6.8	Middle	3.4	0.1	277	28.1	28.1	8.2	8.2	31.1	31.1	99.5	99.6	6.1		4.7	7.9	8	8	819176	806247
						5.8	0.1	284	28.0		8.1		31.2		85.6		5.6		16.1	1	10			
					Bottom	5.8	0.1	281	28.0	28.0	8.1	8.1	31.1	31.1	85.7	85.7	5.6	5.6	16.7	Ī	9			
					Ourton	1.0	0.2	253	28.7	00.7	8.2	0.0	29.7	00.7	89.6	00.7	5.9		9.6		7			
					Surface	1.0	0.1	257	28.7	28.7	8.2	8.2	29.7	29.7	89.7	89.7	5.8	5.8	9.6	1	6			
IM7	Boiny	Modorata	18:29	7.9	Middle	4.0	0.2	270	28.6	28.6	8.1	8.1	29.8 29.8	29.8	87.7	87.6	5.7	5.8	9.7	11.6	7	7	821362	806849
IIVI /	Rainy	Moderate	18:29	7.9	ivildale	4.0	0.2	272	28.6	∠8.0	8.1	Ø. I	29.8	29.8	87.5	87.0	5.7		9.6	11.6	8	1	821382	800849
					Bottom	6.9	0.2	277	28.6	28.6	8.1	8.1	29.8 29.8	29.8	86.2	86.1	5.6	5.6	15.4		8			
					Bottom	6.9	0.2	270	28.6	20.0	8.1	0.1	29.8	23.0	85.9	00.1	5.6	5.0	15.5		8			

DA: Depth-Averaged

Water Quality Monitoring Results on 10 September 22 during Mid-Flood Tide

water Qua	inty into int	ornig itoou	1113 011		10 September 22	auring ma	1 1000 1	uc																
Monitoring	Weather	Sea	Sampling	Water	0 " 0 .		Current Speed	Current	Water Te	emperature (°C)	ŀ	рН	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	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	HK Grid (Northing)	HK Grid (Easting)
					0.1	1.0	0.3	251	28.6	20.0	8.2		29.6		90.5	00.5	6.0		8.0		6			
					Surface	1.0	0.3	251	28.6	28.6	8.2	8.2	29.7	29.7	90.4	90.5	5.9		8.6		7			
			40.00			3.6	0.3	259	28.4	20.4	8.2		30.2		85.4	0= 0	5.6	5.8	10.4		8	_		
IM10	Cloudy	Moderate	18:23	7.2	Middle	3.6	0.3	260	28.4	28.4	8.2	8.2	30.2	30.2	85.2	85.3	5.6		10.8	10.5	7	7	822231	809834
						6.2	0.3	258	28.3		8.1		30.3		84.9		5.6		12.4		8			
					Bottom	6.2	0.4	254	28.3	28.3	8.1	8.1	30.3	30.3	84.9	84.9	5.6	5.6	12.8		8			
			İ		0.1	1.0	0.4	277	28.4	00.4	8.1		30.4		86.0		5.7		8.3		13			
					Surface	1.0	0.5	280	28.4	28.4	8.1	8.1	30.4	30.4	85.9	86.0	5.6	- 0	8.5		14			
13.44	Oleverte	Madaata	40.00	0.0	B 41 - I - II -	4.2	0.4	254	28.3	00.0	8.1	0.4	30.4	00.4	85.1	05.4	5.6	5.6	11.5	40.0	13	40	004540	040540
IM11	Cloudy	Moderate	18:29	8.3	Middle	4.2	0.4	257	28.3	28.3	8.1	8.1	30.4	30.4	85.1	85.1	5.6		11.6	10.8	12	13	821512	810546
					D	7.3	0.4	273	28.3	00.0	8.1	0.4	30.4	00.4	84.6	04.0	5.6	<b>5.0</b>	12.2		12			
					Bottom	7.3	0.4	275	28.3	28.3	8.1	8.1	30.4	30.4	84.5	84.6	5.6	5.6	12.7		12			
					0	1.0	0.4	289	28.4	00.4	8.1	0.4	30.4	00.4	87.1	07.4	5.7		9.9		9			
					Surface	1.0	0.4	285	28.4	28.4	8.1	8.1	30.4	30.4	87.1	87.1	5.7		9.4		10			
13.440	Oleverte	Madaata	40.04	0.0	NAC-L-III-	4.3	0.4	271	28.4	00.4	8.1	0.4	30.5	00.5	86.6	00.0	5.7	5.7	16.8	440	10	•	004444	044500
IM12	Cloudy	Moderate	18:34	8.6	Middle	4.3	0.4	274	28.4	28.4	8.1	8.1	30.5	30.5	86.6	86.6	5.7		16.7	14.0	9	9	821141	811503
					5	7.6	0.4	255	28.4	20.4	8.1		30.5		86.3		5.7		15.6		8			
					Bottom	7.6	0.4	258	28.4	28.4	8.1	8.1	30.5	30.5	86.1	86.2	5.7	5.7	15.6		8			
			Ì		0.1	1.0	0.1	210	28.4	00.4	8.1		30.2		84.4	0.1.0	5.5		13.0		8			
					Surface	1.0	-	208	28.4	28.4	8.1	8.1	30.2	30.2	84.2	84.3	5.5	5.5	12.2		8			
CD4A	Claudi	Madagata	40.50	<i>-</i> 7	Middle	2.9	0.1	215	-		-		-		-		-	5.5	-	40.0	-	7	040077	040000
SR1A	Cloudy	Moderate	18:59	5.7	Middle	2.9	0.1	221	-	-	-	-	-	1 -	-	-	-		-	13.6	-	7	819977	812666
					Bottom	4.7	-	197	28.4	28.4	8.1	0.4	30.3	30.3	83.5	83.5	5.5	5.5	14.9		6			
					Bottom	4.7	0.0	189	28.4	28.4	8.1	8.1	30.3	30.3	83.5	83.5	5.5	5.5	14.5		7			
					Surface	1.0	0.2	245	28.4	28.4	8.1	8.1	30.2	30.2	86.9	86.9	5.7		13.2		12			
					Surface	1.0	0.2	249	28.4	20.4	8.1	0.1	30.2	30.2	86.9	00.9	5.7	5.7	13.3		11			
SR2	Cloudy	Moderate	19:11	4.2	Middle	-	0.2	233	-	_	-		-	_	-		-	5.7	-	14.2	-	11	821469	814157
SKZ	Cloudy	Moderate	19.11	4.2	Middle	-	0.2	227	-	-	-	-	-	1 -	-	-	-		-	14.2	-	11	021409	014137
					Bottom	3.2	0.1	249	28.4	28.4	8.1	8.1	30.1	30.1	87.0	87.0	5.7	5.7	15.1		9			
					Bottom	3.2	0.1	253	28.4	20.4	8.1	0.1	30.1	30.1	87.0	67.0	5.7	5.7	15.2		10			
					Surface	1.0	0.1	269	28.6	28.6	8.2	8.2	29.8	29.8	91.3	91.3	6.0		8.2		6			
					Ourlace	1.0	0.1	273	28.6	20.0	8.2	0.2	29.8	23.0	91.3	31.5	6.0	6.0	8.8		6			
SR3	Rainy	Moderate	18:24	8.9	Middle	4.5	0.1	277	28.6	28.6	8.2	8.2	29.8	29.8	90.5	90.5	5.9	0.0	13.6	12.1	6	6	822148	807550
Ono	rtairy	Moderate	10.2	0.0	Wilddie	4.5	0.0	282	28.6	20.0	8.2	0.2	29.8	20.0	90.4	00.0	5.9		13.4	12.1	6	o	022140	007000
					Bottom	7.9	0.1	266	28.6	28.6	8.1	8.1	29.8	29.8	89.1	88.9	5.8	5.8	14.0		6			
					Bottom	7.9	0.1	267	28.6	20.0	8.1	0.1	29.8	20.0	88.7	00.0	5.8	0.0	14.4		6			
·		·			Surface	1.0	0.0	232	28.8	28.8	8.2	8.2	30.5	30.5	96.2	96.2	6.3		12.1		8			
						1.0	0.0	239	28.8	20.0	8.2	0.2	30.5	00.0	96.2	00.2	6.3	6.3	12.0		9			
SR4A	Rainy	Moderate	19:27	8.5	Middle	4.3	0.0	235	28.8	28.8	8.1	8.1	30.5	30.5	95.1	95.1	6.2		14.6	14.5	7	8	817180	807789
	,					4.3	0.1	239	28.8		8.1		30.5		95.0		6.2		14.2		8			
					Bottom	7.5	0.0	203	28.9	28.9	8.1	8.1	30.5	30.5	89.8	89.6	5.9	5.9	16.9		7			
						7.5	0.0	201	28.9		8.1	-	30.5		89.4		5.8		17.0		7			
					Surface	1.0	-	-	29.0	29.0	8.1	8.1	30.1	30.1	88.5	88.5	5.8		10.2		8			
						1.0	-	-	28.9		8.1		30.1		88.4		5.8	5.8	10.6		7			
SR8	Cloudy	Moderate	18:39	4.2	Middle	-	-	-	-	-	-	_	-	-	-	-	-		-	13.4	-	7	820393	811643
						-	-	-	-		-		-		-		-		-		-			
					Bottom	3.2	-	-	28.4	28.4	8.1	8.0	30.2	30.2	84.4	84.4	5.6	5.6	16.6		6			
						3.2	-	-	28.4		8.0		30.2		84.4	<b>-</b>	5.6		16.4		7			

Water Quality Monitoring Results on 13 September 22 during Mid-Ebb Tide

Water Quar	ity mornie	ornig itoou	113 011		13 September 22	auring mia	<u> </u>	•																
Monitoring	Weather	Sea	Sampling	Water	Sampling Dept	h (m)	Current Speed	Current	Water Te	emperature (°C)	pl	Н	Salir	nity (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	0.1	186	28.6	28.6	8.1	8.1	28.8	28.8	80.8	80.8	5.3		5.7		21			
					Surface	1.0	0.1	190	28.6	20.0	8.1	0.1	28.8	20.0	80.7	00.0	5.3	5.3	5.1		20			
C1	Cloudy	Moderate	13:29	8.6	Middle	4.3	0.1	184	28.5	28.5	8.1	8.1	28.9	28.9	79.7	79.8	5.3	5.5	7.0	7.4	20	19	815643	804266
O1	Cloudy	Moderate	13.29	0.0	Middle	4.3	0.1	186	28.5	20.5	8.1	0.1	28.9	20.9	79.8	75.0	5.3		7.0	7.4	20	19	013043	004200
					Bottom	7.6	0.1	210	28.4	28.4	8.1	8.1	28.9	28.9	76.2	76.2	5.0	5.0	9.9		17			
					Bottom	7.6	0.2	212	28.4	20.4	8.1	0.1	28.9	20.3	76.1	70.2	5.0	5.0	9.9		18			
					Surface	1.0	0.6	157	28.8	28.8	8.2	8.2	27.5 27.6	27.5	89.0	89.0	5.9		9.2		6			
					Surface	1.0	0.6	151	28.8	20.0	8.2	0.2		21.5	89.0	03.0	5.9	5.8	9.4		5			
C2	Cloudy	Moderate	14:59	11.2	Middle	5.6	0.6	165	28.5	28.5	8.2	8.2	28.0	28.0	85.4	85.4	5.7	3.0	8.8	9.5	6	7	825695	806968
02	Cloudy	Moderate	14.55	11.2	Middle	5.6	0.6	162	28.5	20.5	8.2	0.2		20.0	85.4	03.4	5.7		8.4	9.5	6	,	023093	000900
					Bottom	10.2	0.6	153	28.3	28.3	8.1	8.1	28.7	28.7	84.0	84.1	5.6	5.6	10.5		9			
					Bottom	10.2	0.6	147	28.3	20.3	8.1	0.1	28.7	20.7	84.2	04.1	5.6	3.0	10.6		8			
					Surface	1.0	0.4	65	28.2	28.2	8.3	8.3	28.3	28.3	75.3	75.3	5.0		8.5		14			
					Sulface	1.0	0.3	59	28.2	20.2	8.3	0.5		20.3	75.2	75.5	5.0	5.0	8.5		13			
C3	Cloudy	Moderate	14:19	10.6	Middle	5.3	0.4	75	27.8	27.8	8.3	8.3	28.9	28.9	73.7	73.8	4.9	3.0	8.4	8.2	18	18	822091	817796
0.5	Cloudy	Moderate	14.15	10.0	Middle	5.3	0.5	81	27.8	27.0	8.3	0.5	28.9	20.9	73.9	73.0	4.9		8.3	0.2	19	10	022091	017790
					Bottom	9.6	0.4	82	27.8	27.8	8.3	8.3	29.0 29.1	29.1	75.5	75.6	5.0	5.1	7.8		20			
					Dottom	9.6	0.4	83	27.8	27.0	8.3	0.5	29.1	23.1	75.7	73.0	5.1	3.1	7.9		21			
					Surface	1.0	0.2	198	28.4	28.5	8.4	8.4	27.7	27.7	87.8	87.8	5.9		8.7		16			
					Gunace	1.0	0.1	195	28.5	20.5	8.4	0.4	27.7	21.1	87.8	07.0	5.9	5.9	8.6		15			
IM1	Cloudy	Moderate	13:52	6.4	Middle	3.2	0.2	174	28.3	28.3	8.4	8.4	28.0	28.1	86.5	86.5	5.8	5.5	11.7	11.5	12	13	818364	806471
11011	Cioday	Woderate	10.02	0.4	Middle	3.2	0.2	175	28.3	20.5	8.4	0.4		20.1	86.5	00.5	5.8		11.9	11.5	12	13	010304	000471
					Bottom	5.4	0.2	191	28.2	28.2	8.4	8.4	28.5	28.5	87.6	87.8	5.8	5.9	14.0		12			
					Bottom	5.4	0.2	198	28.2	20.2	8.4	0.4	28.5	20.0	87.9	07.0	5.9	0.0	14.0		12			
					Surface	1.0	0.1	179	28.6	28.6	8.3	8.3	27.7	27.7	90.7	90.9	6.0		7.7		10			
					Gundee	1.0	0.1	177	28.6	20.0	8.3	0.0	27.7	21.1	91.1	00.0	6.1	5.9	7.5		11			
IM2	Cloudy	Moderate	14:03	6.8	Middle	3.4	0.1	162	28.4	28.4	8.3	8.3	28.0	28.0	85.2	85.2	5.7	0.0	10.4	10.2	9	10	819198	806215
11412	Cloudy	Moderate	14.00	0.0	Wildele	3.4	0.2	162	28.4	20.4	8.3	0.0		20.0	85.2	00.2	5.7		10.6	10.2	10	10	010100	000210
					Bottom	5.8	0.1	169	28.3	28.3	8.3	8.3	28.4	28.4	86.8	86.9	5.8	5.8	12.6		9			
					Bottom	5.8	0.1	169	28.3	20.0	8.3	0.0	28.4	20.4	87.0	00.0	5.8	0.0	12.7		8			
-					Surface	1.0	0.2	141	28.7	28.7	8.3	8.3	26.9	26.9	88.1	88.2	5.9		6.0		10			
					Guilade	1.0	0.2	135	28.7	20.7	8.3	0.0	26.9	20.0	88.2	00.2	5.9	5.7	6.0		11			
IM7	Cloudy	Moderate	14:27	7.9	Middle	4.0	0.2	170	28.5	28.5	8.4	8.4	27.7	27.7	83.3	83.4	5.5	0.7	10.0	10.3	9	9	821360	806829
	Sioday	.nodorate	17.27	7.0	Middle	4.0	0.2	163	28.5	20.0	8.4	0.4	27.7	21.1	83.4	00.7	5.6		9.9	1 .0.5	9	ŭ	321000	000023
					Bottom	6.9	0.2	175	28.5	28.5	8.4	8.4	27.7	27.7	84.0	84.1	5.6	5.6	16.8	1	6			
					Dottom	6.9	0.3	179	28.5	20.5	8.4	0.7	27.7	21.1	84.1	07.1	5.6	5.0	13.1		7			

DA: Depth-Averaged

Water Quality Monitoring Results on 13 September 22 during Mid-Ebb Tide

Moderate   Vestor	Trater qua					lo ocptember 22		Current	Ī							DO S	aturation	Disso	olved			Suspende	ed Solids		
Second   Condition   Conditi	Monitoring	Weather	Sea	Sampling	Water	0	I. ()		Current	Water Te	emperature (°C)		pН	Salin	ity (ppt)					Turbidity	(NTU)			Coordinate	Coordinate
Milds	Station	Condition	Condition	Time	Depth (m)	Sampling Dept	:n (m)		Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	HK Grid (Easting)
Mile Coudy Moderate 13:11 8.0 Moderate 13:11 8.0 Moderate 13:11 8.0 Moderate 13:11 8.0 Moderate 13:11 8.0 Moderate 13:11 8.0 Moderate 13:10 8.1 Mo						Confess	1.0	0.2	78	28.9	20.0	8.3	0.0	26.4	200.4	88.7	00.7	5.9		6.6		21			
Mile Cloudy Moderate 13:1 8.0 Mode 4:0 0.3 84 286 286 287 273 273 833 83 68 8.0 8.3 86 274 274 275 838 83 86 8.0 8.3 86 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0						Surface	1.0	0.2	79	28.9	28.9	8.3	0.3	26.5	26.4	88.6	88.7	5.9	<i>-</i> 0	6.7		22			
Moderate   Moderate	IM10	Cloudy	Madarata	12:11	0.0	Middle	4.0	0.3	84	28.6	20.6	8.3	0.2	27.2	27.2	83.3	02.2	5.6	5.8	9.3	0.0	22	21	922244	809835
Middle   Moderate   13:19   Mo	IIVITO	Cloudy	Widderate	13.11	6.0	Middle	4.0	0.2	90	28.6	20.0	8.3	0.3	27.3	21.3	83.3	03.3	5.6		9.6	9.9	21	21	022244	009033
Military   Moderate   13:19   8:1   Midde   4:1   0:2   6:5   23:5   2						Rottom	7.0	0.2	59	28.5	29.5	8.3	0.2	27.5	27.5	83.6	92.7	5.6	5.6	13.7		20			
Milt    Cloudy   Moderate   13:19   R.1     Midde   A.1   0.3   0.2   0.3   28.9   28.7   8.3   0.3   20.4   8.3   0.3   20.4   8.5   0.5   0.5   0.6   0.8   0.						Bottom	7.0	0.2	52	28.5	20.5	8.3	0.5	27.5	21.5	83.8	03.7	5.6	3.0	13.6		19			
Milit						Surface	1.0	0.2	88	29.0	29.0	8.3	8.3	26.3	26.4	89.6	80.6	6.0		6.1		21			
Milit Cloudy Moderate 13:19 8.1 Middle 4.1 0.2 885 287 87 8.3 8.2 270 270 851 851 657 8.8 8.5 20 20 821 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						Ourrace	1.0	0.2	93	28.9	25.0	8.3	0.5	26.4	20.4	89.6	03.0		5.0	6.2		20			
Moderate   13:14   14:00   14:00   15:00   1	IM11	Cloudy	Moderate	13.19	8.1	Middle			85		28 7		83		27.0		85.1		5.5		8.5	20	20	821498	810557
Moderate   Moderate	IIVIII	Cloudy	Woderate	13.13	0.1	Middle	4.1	0.3	86	28.7	20.7	8.3	0.5	27.0	21.0	85.1	00.1	5.7		8.8	0.5	20	20	021430	010001
Note						Bottom		0.3	73		28.6		83		27.2		85.2		5.7						
Moderate   13.24   9.2   Middle   4.6   0.4   0.3						Bottom	7.1	0.3	74	28.6	20.0	8.3	0.0	27.2	21.2	85.2	00.2	5.7	0.7	10.5		19			
Middle   13.24   9.2   Middle   4.6   0.3   9.						Surface		0.3	86		29.2		8.2		26.2		88.5					8			
Mide   Mide						Gundee					20.2		0.2	26.2	20.2	88.5	00.0		5.7			9			
Second Column   Second Colum	IM12	Cloudy	Moderate	13.24	9.2	Middle		0.3	84	28.5	28.5		8.2	27.1	27 1	81.1	81.2		0	12.4	10.8	10	11	821174	811503
SR1A Cloudy Moderate 13:19 5.7 Middle 2.9 0.3 75 28.5 28.5 28.5 28.5 28.5 28.5 28.5 28.		Oloudy	Wioderate	10.24	5.2	Wilddie					20.0		0.2		27.1		01.2				10.0			021174	011000
SRIA Cloudy Moderate 13:19 5.7 Surface 1.0 - 46 29.0 29.0 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3						Bottom					28.5		8.2		27.2		81 7		5.5						
SR1A Cloudy Moderate 13:19 5.7 Middle 2.9 0.0 177 287 28.7 28.7 28.7 28.7 28.7 28.7 28.						Bottom					20.0		0.2				0		0.0						
SR1A Cloudy Moderate 13:19 5.7 Middle 2.9 0.0 17 28.7 28.7 28.7 28.7 28.7 28.7 28.7 28.						Surface					29.0		8.3		26.4		89.6								
SR1A Cloudy Moderate 13:19 5.7 Middle 2.9 0.0 16 28.7 28.7 2.7												8.3		26.4		89.6		6.0	6.0	6.2		6			
Bottom 4.7 0.0 46 28.6 28.6 8.3 8.3 27.2 27.2 85.2 5.7 5.7 10.6 5 5 10.5 4	SR1A	Cloudy	Moderate	13:19	5.7	Middle					28.7		_		-		-				8.3	-	5	819971	812660
SR2   Cloudy   Moderate   14:03   5.0   Middle   14:04   9.1   Middle   14:04   9.1   Middle   14:05   10:0   0.3   165   28.7   28.8   28.2   28.2		,									_	1											-		
SR2 Cloudy Moderate 14:03 5.0      Surface   1.0						Bottom					28.6		8.3		27.2		85.2		5.7						
SR2 Cloudy Moderate 14:03 5.0 Middle 1.00 0.3 665 28.7 28.7 8.2 8.2 26.9 26.9 86.3 86.3 5.8 5.8 5.8 5.8 5.8 5.8 5.8 5.8 5.8 5.8														_											
SR2 Cloudy Moderate 14:03 5.0 Middle - 0.3 60 - 0.0 - 0.0 - 0.0 60 - 0.0 - 0.0 - 0.0 60 - 0.0 - 0.0 60 - 0.0 - 0.0 60 - 0.0 - 0.0 60 - 0.0 - 0.0 60						Surface					28.7		8.2		26.9		86.3								
SR2 Cloudy Moderate 14:03 5.0 Middle - 0.3 62 -										-		1		_					5.8						
Bottom 4.0 0.3 54 28.5 28.5 8.2 27.3 27.3 87.5 87.6 5.8 5.9 7.7 7.8 8.2	SR2	Cloudy	Moderate	14:03	5.0	Middle				_	-		-		-		-				7.2		7	821483	814179
SR3 Cloudy Moderate 14:34 9.1 Surface 1.0 0.3 157 28.8 28.8 8.2 27.3 27.3 87.7 87.6 5.9 5.9 7.8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8																									
SR3 Cloudy Moderate 14:34 P.1 Surface 1.0 0.3 157 28.8 28.8 28.8 8.2 26.5 26.5 86.2 84.0 85.1 5.7 5.6 9.6 6 6 8.2 12.1 14:34 P.1 Middle 4.6 0.4 152 28.6 8.2 28.6 8.2 27.1 84.8 84.8 84.9 5.7 5.7 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13						Bottom					28.5		8.2		27.3		87.6		5.9						
SR3 Cloudy Moderate 14:34 9.1 Middle 1.0 0.3 161 28.8 28.6 28.6 28.6 28.6 28.6 28.6 28.6																									
SR3 Cloudy Moderate 14:34 9.1 Middle 4.6 0.4 152 28.6 28.6 28.6 28.6 28.6 28.6 28.6 28.						Surface					28.8		8.2		26.5		85.1								
SR3 Cloudy Moderate 14:34 9.1 Middle 4.6 0.4 152 28.6 28.6 8.2 27.2 27.1 85.0 84.9 5.7 13.1 13.5 7 9 824 824 82 82 82 82 82 82 82 82 82 82 82 82 82																			5.7						
Bottom 8.1 0.3 163 28.6 28.6 28.6 28.6 28.6 28.6 28.8 27.8 27.8 27.8 27.8 27.8 27.8 27.8	SR3	Cloudy	Moderate	14:34	9.1	Middle				-	28.6		8.2		27.1		84.9				13.5		7	822138	807570
SR4A Cloudy Moderate 13:06 8.9 Middle 4.5 0.0 100 28.5 8.1 8.2 8.2 8.2 8.2 8.2 8.7 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1																									
SR4A Cloudy Moderate 13:06 8.9 Surface 1.0 0.0 99 28.7 28.7 28.7 28.7 28.7 28.7 28.7 28.7						Bottom					28.6		8.2		27.8		88.5		5.9						
SR4A Cloudy Moderate 13:06 8.9 Middle 4.5 0.0 100 28.5 28.7 28.7 8.2 8.2 28.7 91.2 91.2 91.2 6.0 6.0 99.4 11.0 6 6 7.9 0.0 112 28.4 28.4 28.4 28.4 28.4 28.4 28.4 28.														_											
SR4A Cloudy Moderate 13:06 8.9 Middle 4.5 0.0 100 28.5 28.5 8.2 8.1 28.7 28.7 90.1 90.1 5.9 6.0 11.1 11.9 6 5 8171    Bottom 7.9 0.0 114 28.4 28.4 8.1 8.1 28.7 28.7 90.1 90.0 5.9 14.3 11.9 6 5 7 90.0 11.0 11.7 11.9 6 7 90.0 11.0 11.7 11.9 6 7 90.0 11.0 11.7 11.9 6 7 90.0 11.0 11.7 11.9 6 7 90.0 11.0 11.7 11.9 6 7 90.0 11.0 11.0 11.0 11.0 11.0 11.0 11.0						Surface					28.7		8.2		28.7		91.2								
SR4A Cloudy Moderate 13:06 8.9 Middle 4.5 0.1 101 28.5 28.5 8.1 8.1 28.7 28.7 90.0 90.1 5.9 11.7 11.9 5 81.7    Bottom 7.9 0.0 114 28.4 8.1 8.1 28.7 28.7 28.7 87.3 86.9 87.1 5.9 5.9 14.3 4 5    Surface 1.0 29.6 29.6 8.2 8.2 27.0 27.0 87.4 87.4 87.4 5.7 5.7 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7		<u>.</u>																	6.0				_		
Bottom 7.9 0.0 112 28.4 28.4 28.4 8.1 8.1 28.7 28.7 28.7 87.3 86.9 87.1 5.9 5.9 14.3 4 5 5 5 6 6.9 6 6.9 6 6.9 6 6.9 6 6.9 6 6.9 6 6.9 6 6.9 6 6.9 6 6.9 6 6.9 6 6.9 6 6.9 6 6.9 6 6.9 6 6.9 6.9	SR4A	Cloudy	Moderate	13:06	8.9	Middle					28.5		8.1		28.7		90.1				11.9		5	817189	807796
Surface 7.9 0.0 114 28.4 28.4 8.1 8.1 28.7 28.7 86.9 87.1 5.8 5.9 14.4 5  Surface 1.0 29.6 29.6 8.2 8.2 27.0 27.0 87.4 87.4 5.7 5.7 7.9 8  1.0 29.6 29.6 8.2 8.2 27.0 27.0 87.4 87.4 5.7 5.7 7.9 7.9 7										-															
Surface 1.0 29.6 29.6 8.2 8.2 27.0 27.0 87.4 87.4 5.7 7.9 8 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9						Bottom					28.4		8.1		28.7		87.1		5.9		1				
Surface 1.0 29.6 29.6 8.2 27.0 27.0 87.4 5.7 5.7 7.9 7				Ì		Ourteen					00.0		0.0	_	07.0		07.4								
						Surface					29.6		8.2		27.0		87.4				1				
000   0004   Materia   4000   50   Materia   1   1   1   1   1   1   1   1   1	000	Olevert	Mandaget	40.00	5.0	NAC-J-III-	-	-	-	-		-		-		-		-	5.7	-	0.5	-	-	000000	044000
SR8   Cloudy   Moderate   13:29   5.0   Middle   -   -   -   -   -   -   -   -   -	SR8	Cloudy	Moderate	13:29	5.0	Middle			-	_	-		1 -		1 -	-	-	-			9.5		7	820399	811638
5 4.0 28.5 20.5 8.2 27.3 27.3 84.6 24.0 5.6 5.7 11.1 6						Detter	4.0	-	-	28.5	20.5	8.2	0.0	27.3	27.2	84.6	04.0	5.6	F 7	11.1		6			
Bottom 4.0 - 28.5 28.5 8.2 8.2 27.3 27.3 84.9 84.8 5.7 5.7 11.1 6					1	Bottom		-	-		28.5		8.2		27.3		84.8		5.7		1				

Water Quality Monitoring Results on 13 September 22 during Mid-Flood Tide

water Qual	ity Monit	oring Resu	its on		13 September 22	during wild-	riood II	ue																
Monitoring	Weather	Sea	Sampling	Water	Sampling Dept	h (m)	Current Speed	Current	Water Te	emperature (°C)	pl	н	Salin	ity (ppt)		aturation (%)	Disso Oxy	olved ⁄gen	Turbidity	(NTU)	Suspende (mg		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling Dept	11 (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	48	28.6	28.6	8.2	8.2	29.0	29.0	90.4	90.4	5.9		1.7		6			
					Surface	1.0	0.5	53	28.6	28.0	8.2	8.2	29.0	29.0	90.4	90.4	5.9		1.7		6			
04	01		00.50	0.5	Middle	4.3	0.4	24	28.4	28.4	8.2	0.0	29.2	00.0	87.7	07.7	5.7	5.8	12.0		6	-	815623	004000
C1	Cloudy	Moderate	08:59	8.5	Middle	4.3	0.5	30	28.4	28.4	8.2	8.2	29.2	29.2	87.7	87.7	5.7	1	12.2	8.9	7	7	815623	804260
					Dallana	7.5	0.5	48	28.3	00.0	8.1	0.4	29.2	29.2	85.7	85.7	5.6	5.6	13.3		6			
					Bottom	7.5	0.4	45	28.3	28.3	8.1	8.1	29.2	29.2	85.7	85.7	5.6	5.6	12.6		8			
					Surface	1.0	0.4	2	28.7	28.7	8.2	8.2	27.9	27.9	91.3	91.3	5.9		3.7		12			
					Surface	1.0	0.4	3	28.7	28.7	8.2	8.2	27.9	27.9	91.3	91.3	5.9	5.9	3.7		10			
C2	Cloudy	Moderate	10:14	10.2	Middle	5.1	0.5	11	28.5	28.5	8.2	8.2	28.6	28.6	88.7	88.7	5.8	5.9	7.9	7.3	10	10	825664	806926
02	Cloudy	Moderate	10.14	10.2	Middle	5.1	0.4	3	28.5	20.5	8.2	0.2	28.6	20.0	88.7	00.7	5.8		8.3	7.3	10	10	023004	800920
					Bottom	9.2	0.5	334	28.4	28.4	8.1	8.1	28.6	28.6	85.4	85.4	5.7	5.7	9.9		8			
					Bottom	9.2	0.5	334	28.4	20.4	8.1	0.1	28.6	20.0	85.4	00.4	5.7	5.7	10.2		8			
					Surface	1.0	0.6	250	28.3	28.3	8.1	8.1	27.2	27.2	78.5	78.5	5.3		3.5		20			
					Cunaco	1.0	0.6	242	28.3	20.0	8.1	0	27.2	27.2	78.4	7 0.0	5.3	5.1	3.5		18			
C3	Cloudy	Calm	08:33	11.0	Middle	5.5	0.5	246	28.0	28.0	8.1	8.1	28.1	28.1	72.6	72.6	4.9		9.1	8.3	19	18	822129	817818
	,					5.5	0.5	253	27.9		8.1		28.1		72.5		4.9		9.2		19			
					Bottom	10.0	0.6	255	27.9	27.9	8.0	8.0	28.3	28.3	72.6	72.7	4.9	4.9	12.4		16			
						10.0	0.6	252	27.9		8.0				72.7		4.9		12.3		16			
					Surface	1.0	0.3	<u>2</u> 8	28.4 28.4	28.4	8.2 8.2	8.2	27.8 27.8	27.8	86.6 86.4	86.5	5.8 5.8	ł	10.0 10.4		6 5			
						3.5	0.3	28	28.4		8.2		27.7		85.7		5.7	5.8	11.9		5			
IM1	Cloudy	Moderate	09:17	6.9	Middle	3.5	0.3	22	28.4	28.4	8.2	8.2	27.7	27.7	85.8	85.8	5.7	ł	12.2	12.4	6	6	818373	806439
						5.9	0.3	22	28.4		8.2		27.7		86.3		5.8		15.6		6			
					Bottom	5.9	0.2	19	28.4	28.4	8.2	8.2	27.7	27.7	86.5	86.4	5.8	5.8	14.2		7			
						1.0	0.3	24	28.4		8.3		27.7		84.4		5.6		10.4		5			
					Surface	1.0	0.4	24	28.4	28.4	8.3	8.3	27.7	27.7	84.3	84.4	5.6	1	10.7		5			
	O					3.5	0.4	19	28.3		8.3		27.7		83.8		5.6	5.6	13.1		6		0.40404	
IM2	Cloudy	Moderate	09:21	7.0	Middle	3.5	0.4	18	28.3	28.3	8.3	8.3	27.7	27.7	83.9	83.9	5.6	1	13.1	12.3	5	6	819164	806220
					Datter	6.0	0.3	24	28.3	00.0	8.4	0.4	27.7	07.7	84.4	84.5	5.6	5.6	13.2		6			
					Bottom	6.0	0.3	21	28.3	28.3	8.4	8.4	27.7	27.7	84.5	84.5	5.6	5.6	13.4		6			
					Surface	1.0	0.2	2	28.6	28.6	8.1	8.1	25.5 25.5	25.5	84.3	84.3	5.7		3.7		5			
					Sunace	1.0	0.2	359	28.6	20.0	8.1	0.1	25.5	20.0	84.2	04.3	5.7	5.7	3.8		5			
IM7	Cloudy	Moderate	09:36	7.6	Middle	3.8	0.3	16	28.5	28.5	8.1	8.1	26.4	26.5	83.5	83.5	5.6	5.7	7.6	7.9	5	6	821363	806856
11017	Cioudy	Moderate	03.30	7.0	iviidale	3.8	0.3	14	28.5	20.0	8.1	0.1	26.6	20.5	83.5	03.3	5.6		7.8	7.9	6	3	021303	000000
					Bottom	6.6	0.3	22	28.5	28.5	8.2	8.2	27.4	27.4	85.0	85.2	5.7	5.7	12.5		7			
					Dottom	6.6	0.2	22	28.5	20.0	8.2	0.2	27.4	21.7	85.3	00.2	5.7	0.,	12.3		6			

DA: Depth-Averaged

Water Quality Monitoring Results on 13 September 22 during Mid-Flood Tide

	,	oring resu			10 Ocptember 22	during ima	_								DO 1		ο.					10 "		
Monitoring	Weather	Sea	Sampling	Water	Sampling Dep	th (m)	Current Speed	Current	Water Te	emperature (°C)		рН	Salin	ity (ppt)	DO S	aturation (%)	Disso Oxy		Turbidity	(NTU)	Suspende (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling Dep	ui (iii)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Cumface	1.0	0.4	308	28.5	20.5	8.1	0.4	27.2	27.2	79.8	70.0	5.3		9.4		16			
					Surface	1.0	0.5	310	28.5	28.5	8.1	8.1	27.2	27.2	79.7	79.8	5.3	5.3	9.4		17			
IM10	Cloudy	Calm	09:42	7.5	Middle	3.8	0.4	293	28.4	28.4	8.1	8.1	27.3	27.3	78.1	78.1	5.2	5.3	10.6	11.7	19	19	822230	809842
IIVITO	Cloudy	Callii	09.42	7.5	Middle	3.8	0.4	295	28.4	20.4	8.1	0.1	27.3	21.5	78.1	70.1	5.2		10.0	11.7	18	19	022230	009042
					Bottom	6.5	0.4	299	28.4	28.4	8.1	8.1	27.3	27.3	78.1	78.1	5.2	5.2	15.5		20			
					Bottom	6.5	0.4	294	28.4	20.4	8.1	0.1	27.3	27.0	78.1	70.1	5.2	0.2	15.1		21			
					Surface	1.0	0.5	289	28.5	28.5	8.1	8.1	27.1	27.1	79.8	79.6	5.3		7.3		7			
						1.0	0.5	296	28.5		8.1		27.1		79.4		5.3	5.3	7.4		6			
IM11	Cloudy	Calm	09:36	8.5	Middle	4.3	0.5	265	28.4	28.4	8.1	8.1	27.3	27.3	78.0	78.0	5.2		13.9	12.0	8	8	821480	810535
	,					4.3	0.5	271	28.4		8.1		27.3		78.0		5.2		13.9		7			
					Bottom	7.5	0.5	299	28.3	28.3	8.1	8.1	27.3	27.3	78.4	78.5	5.2	5.3	14.5		10			
						7.5	0.5	297	28.3		8.1		27.3		78.5		5.3		14.9		9			
					Surface	1.0	0.5	291	28.5	28.5	8.1	8.1	27.2	27.2	78.8 78.7	78.8	5.3		13.1		8			
						1.0 4.6	0.5	289	28.5		8.1						5.3	5.3	13.1		9			
IM12	Cloudy	Calm	09:30	9.2	Middle	4.6	0.6	276	28.4	28.4	8.1	8.1	27.3	27.3	77.6	77.6	5.2 5.2		12.7	12.3	7	7	821145	811510
						8.2	0.5	276 294	28.4 28.3		8.1		27.3 27.3		77.6 77.6		5.2		12.3 11.2		7			
					Bottom	8.2	0.5	294	28.3	28.3	8.1 8.1	8.1	27.3	27.3	77.6	77.6	5.2	5.2	11.4		6			
						1.0	0.0	207	28.4		8.1		27.0		76.5		5.1		5.4		4			
					Surface	1.0	0.0	202	28.4	28.4	8.1	8.1	27.1	27.0	76.4	76.5	5.1		6.1		5			
						2.9	0.0	219	-		-		-		-		-	5.1	-		-			
SR1A	Cloudy	Calm	09:03	5.7	Middle	2.9	0.1	221	-	-	_	-	_	-	_	-	-		_	6.8	_	6	819972	812658
					_	4.7	0.0	217	28.4		8.1		27.2		76.2		5.1		8.0		6			
					Bottom	4.7	0.0	212	28.4	28.4	8.1	8.1	27.2	27.2	76.6	76.4	5.1	5.1	7.8		7			
					0(	1.0	0.1	244	28.4	00.4	8.1	0.4	27.2	07.0	78.8	70.0	5.3		10.8		8			
					Surface	1.0	0.1	240	28.4	28.4	8.1	8.1	27.2	27.2	78.9	78.9	5.3	- 0	10.8		7			
CDO	Claudu	Calm	00.50	4.4	M:dalla	-	0.1	248	-		-		-		-		-	5.3	-	40.4	-	7	004.400	044404
SR2	Cloudy	Calm	08:50	4.4	Middle	-	0.1	244	-	-	-	-	-	-	-	-	-		-	12.1	-	7	821460	814181
					Bottom	3.4	0.1	250	28.4	28.4	8.1	8.1	27.2	27.2	79.6	79.6	5.3	5.3	13.6		6			
					BOLLOTT	3.4	0.1	249	28.4	20.4	8.1	0.1	27.2	21.2	79.6	79.0	5.3	5.5	13.2		5			
					Surface	1.0	0.4	358	28.7	28.7	8.1	8.1	25.3	25.3	84.1	84.0	5.7		2.8		8			
					Odnace	1.0	0.5	353	28.7	20.7	8.1	0.1	25.3	20.0	83.9	04.0	5.6	5.5	2.8		7			
SR3	Cloudy	Moderate	09:44	9.2	Middle	4.6	0.5	335	28.5	28.5	8.1	8.1	25.6	25.6	80.6	80.6	5.4	0.0	5.4	6.0	6	7	822148	807576
0.10	O.Guay	Moderate	00	0.2	- Inidaio	4.6	0.4	334	28.5	20.0	8.1	0	25.6	20.0	80.5	00.0	5.4		5.8	0.0	7	•	022110	00.0.0
					Bottom	8.2	0.4	352	28.6	28.6	8.1	8.1	26.1	26.1	79.6	79.6	5.3	5.3	9.5		6			
		<u> </u>	<u> </u>			8.2	0.4	349	28.6		8.1		26.1		79.6		5.3		9.5		6			
					Surface	1.0	0.0	153	28.6	28.6	8.1	8.1	28.7	28.7	87.5	87.5	5.8		5.9		5			
						1.0	0.0	148	28.6		8.1		28.7		87.5		5.8	5.8	5.6		6			
SR4A	Cloudy	Moderate	08:37	8.8	Middle	4.4	0.1	174	28.5	28.5	8.1	8.1	29.1	29.1	86.2 86.2	86.2	5.7 5.7		4.3	6.3	6	6	817180	807789
					<u> </u>		0.0	170	28.5		8.1								4.3		7			
					Bottom	7.8 7.8	0.1	153 145	28.4 28.4	28.4	8.0	8.0	29.2	29.2	81.6 81.6	81.6	5.4 5.4	5.4	8.9 8.6		7			
		l I			<u> </u> 	1.0	- 0.1	- 145	28.4		8.1		26.9		81.2	l 	5.4		6.6		6			l 
					Surface	1.0	-	-	28.6	28.6	8.1	8.1	26.9	26.9	81.1	81.2	5.4		6.6	1	7			
					-	-	-	-	-		-		20.9		- 01.1		- 5.4	5.4	-	1	-			
SR8	Cloudy	Calm	09:24	5.5	Middle	-	-	-	-	-	<u> </u>	-	F-	-	-	-			-	8.4	-	6	820374	811602
					_	4.5	_	_	28.4		8.1		27.1		81.0		5.4		10.2	1	6			
					Bottom	4.5	-	-	28.4	28.4	8.1	8.1	27.1	27.1	81.3	81.2	5.4	5.4	10.2	1	6			
			1		l .		1						/						. 5.0		,			

Water Quality Monitoring Results on 15 September 22 during Mid-Ebb Tide

water Quar	ity Moint	orning ittesa	113 011		13 September 22	auring wia	LDD IIG																	
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	(NTU)	Suspende (mg.		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling Dept		(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.1	204	29.4	29.4	8.2	8.2	29.6	29.6	84.0	84.0	5.3		5.7		3			
					Surface	1.0	0.1	201	29.4	23.4	8.2	0.2	29.6	23.0	83.9	04.0	5.3	5.3	5.1		4			
C1	Cloudy	Moderate	14:54	8.7	Middle	4.4	0.1	189	29.3	29.3	8.2	8.2	29.7 29.7	29.7	82.9	83.0	5.3	3.3	7.0	7.4	6	5	815636	804223
01	Cloudy	Moderate	14.54	0.7	Middle	4.4	0.1	185	29.3	29.5	8.2	0.2	29.7	23.1	83.0	00.0	5.3		7.0	7.4	6	3	013030	004223
					Bottom	7.7	0.1	182	29.2	29.2	8.2	8.2	29.7	29.7	79.4	79.4	5.0	5.0	9.9		7			
					Bottom	7.7	0.2	177	29.2	25.2	8.2	0.2	29.7	23.1	79.3	73.4	5.0	5.0	9.9		6			
					Surface	1.0	0.2	175	29.6	29.6	8.2	8.2	29.0	29.1	92.2	92.2	6.0		9.2		7			
					Surface	1.0	0.2	175	29.6	23.0	8.2	0.2	29.1	23.1	92.2	32.2	6.0	5.9	9.4		6			
C2	Cloudy	Moderate	15:32	11.6	Middle	5.8	0.2	187	29.3	29.3	8.2	8.2	29.5 29.6	29.5	88.6	88.6	5.8	3.9	8.8	9.5	9	9	825670	806935
02	Cloudy	Moderate	13.32	11.0	Middle	5.8	0.2	192	29.3	29.3	8.2	0.2	29.6	29.5	88.6	00.0	5.8		8.4	9.5	10	9	023070	000933
					Bottom	10.6	0.3	172	29.1	29.1	8.2	8.2	30.2	30.2	87.2	87.3	5.7	5.7	10.5		12			
					Bottom	10.6	0.3	171	29.1	29.1	8.2	0.2	30.2	30.2	87.4	07.3	5.7	3.1	10.6		11			
					Surface	1.0	0.2	80	28.9	28.9	8.2	8.2	30.6	30.6	86.1	85.9	5.6		3.6		9			
					Sulface	1.0	0.2	82	28.9	20.9	8.2	0.2	30.6	30.0	85.7	05.9	5.6	5.5	3.6		8			
C3	Cloudy	Moderate	15:16	11.6	Middle	5.8	0.3	83	28.8	28.8	8.2	8.2	31.0	31.0	80.8	80.7	5.3	3.3	4.0	4.0	12	12	822099	817788
CS	Cloudy	Moderate	13.16	11.6	Middle	5.8	0.2	78	28.8	20.0	8.2	0.2	31.0	31.0	80.6	60.7	5.3		4.1	4.0	12	12	622099	01//00
					Bottom	10.6	0.2	70	28.6	28.6	8.2	8.2	31.3 31.4	31.3	80.4	80.4	5.2	5.2	4.1		14			
					BOILOITI	10.6	0.2	72	28.6	20.0	8.2	0.2	31.4	31.3	80.4	60.4	5.2	5.2	4.4		15			
					Surface	1.0	0.0	87	29.4	29.4	8.3	8.3	29.6	29.6	96.0	96.0	6.2		10.5		8			
					Surface	1.0	0.0	88	29.4	29.4	8.3	0.3	29.6	29.0	95.9	96.0	6.2	6.2	10.5		10			
IM1	Cloudy	Moderate	14:37	7.0	Middle	3.5	0.0	111	29.1	29.1	8.3	8.3	30.0	30.0	94.3	94.3	6.1	0.2	10.7	10.7	9	9	818347	806456
IIVI I	Cloudy	Moderate	14.57	7.0	Middle	3.5	0.0	117	29.1	29.1	8.3	0.5	30.0	30.0	94.2	34.3	6.1		11.3	10.7	9	9	010347	800430
					Bottom	6.0	0.0	85	29.1	29.1	8.3	8.3	30.1	30.1	94.1	94.1	6.1	6.1	10.7		7			
					Bottom	6.0	0.0	85	29.1	29.1	8.3	0.5	30.1	30.1	94.1	34.1	6.1	0.1	10.7		8			
					Surface	1.0	0.0	114	29.6	29.6	8.3	8.3	29.5 29.5	29.5	97.3	97.3	6.3	_	4.4		10			
					Guilace	1.0	0.0	118	29.6	23.0	8.3	0.0	29.5	23.3	97.2	97.5	6.3	6.2	4.4		9			
IM2	Cloudy	Moderate	14:42	7.2	Middle	3.6	0.0	94	29.2	29.2	8.3	8.3	30.0	30.0	94.1	94.1	6.1	0.2	4.8	5.1	7	8	819182	806241
IIVIZ	Cioudy	wouterate	14.42	1.2	Milade	3.6	0.0	95	29.1	23.2	8.3	0.5	30.1	30.0	94.0	34.1	6.1		4.9	] 3.1	8	o	013102	000241
					Bottom	6.2	0.1	95	29.0	29.0	8.3	8.3	30.4	30.4	93.0	93.1	6.0	6.1	6.0		8			
					Dottom	6.2	0.1	101	29.0	23.0	8.3	0.0	30.4	50.4	93.1	93.1	6.1	0.1	6.0		6			
					Surface	1.0	0.1	113	29.7	29.7	8.2	8.2	28.0	28.0	93.8	93.8	6.1		2.4		9			
					Sunace	1.0	0.1	113	29.7	23.1	8.2	0.2	28.0	20.0	93.7	55.0	6.1	5.9	2.5		9			
IM7	Cloudy	Moderate	15:03	8.5	Middle	4.3	0.1	109	29.3	29.3	8.2	8.2	29.6	29.6	85.6	85.6	5.6	5.5	4.9	4.2	8	7	821354	806857
11017	Cioudy	wouterate	13.03	0.5	Milade	4.3	0.1	113	29.3	25.3	8.2	0.2	29.6	25.0	85.6	00.0	5.6		5.0	4.2	7	'	021334	000037
					Bottom	7.5	0.2	87	29.2	29.2	8.2	8.2	29.7	29.7	86.5	86.7	5.6	5.6	5.3		5			
					Bottom	7.5	0.1	90	29.2	23.2	8.2	0.2	29.7	23.7	86.8	00.7	5.6	5.0	5.3		6			

DA: Depth-Averaged

Water Quality Monitoring Results on 15 September 22 during Mid-Ebb Tide

Trate: Qua		g	1		10 Ceptember 22			Ĭ	1		1		1		DO C	oturation	Disso	alvod	1		Cuananda	d Colido		
Monitoring	Weather	Sea	Sampling	Water	Sampling Dept	h (m)	Current Speed	Current	Water Te	emperature (°C)		pН	Salin	ity (ppt)		aturation (%)	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)
						1.0	0.1	70	29.5	00.5	8.2		28.4		86.8	00.7	5.7		5.5		9			
					Surface	1.0	0.1	69	29.5	29.5	8.2	8.2	28.5	28.5	86.5	86.7	5.6		5.9		10			
						3.7	0.1	65	29.2	20.0	8.2		29.4		84.6	24.0	5.5	5.6	12.2		6	_		
IM10	Cloudy	Moderate	14:10	7.4	Middle	3.7	0.1	69	29.2	29.2	8.2	8.2	29.4	29.4	84.6	84.6	5.5		12.6	11.2	7	7	822221	809854
					5	6.4	0.1	43	29.0	20.0	8.2		29.8		79.8		5.2		15.4		6			
					Bottom	6.4	0.1	50	29.0	29.0	8.2	8.2	29.8	29.8	80.1	80.0	5.2	5.2	15.6		5			
					0.1	1.0	0.1	67	29.3	20.0	8.1		28.4		84.5	0.4.5	5.5		13.6		5			
					Surface	1.0	0.1	72	29.3	29.3	8.1	8.1	28.4	28.4	84.5	84.5	5.5		13.6		6			
18444	01	Madaata	44.40	0.0	NAC-L-III-	4.1	0.1	77	29.2	00.0	8.1	0.4	29.2	00.0	84.2	04.0	5.5	5.5	9.9	44.0	7		004504	040500
IM11	Cloudy	Moderate	14:16	8.2	Middle	4.1	0.1	73	29.2	29.2	8.1	8.1	29.2	29.2	84.2	84.2	5.5		9.8	11.3	8	8	821521	810526
						7.2	0.1	72	29.2		8.2		29.4		85.3		5.6		10.2		10			
					Bottom	7.2	0.2	72	29.2	29.2	8.2	8.2	29.4	29.4	85.7	85.5	5.6	5.6	10.6		9			
						1.0	0.1	69	29.5		8.2		28.7		90.8		5.9		4.1		6			
					Surface	1.0	0.1	64	29.5	29.5	8.2	8.2	28.7	28.7	90.7	90.8	5.9		4.3		5			
						4.2	0.1	79	29.2		8.2		29.3		84.9		5.5	5.7	7.1		7			
IM12	Cloudy	Moderate	14:22	8.4	Middle	4.2	0.1	74	29.2	29.2	8.2	8.2	29.3	29.3	84.8	84.9	5.5		7.0	6.2	8	7	821143	811527
						7.4	0.1	73	29.1		8.2		29.4		84.8		5.5		7.5		8			
					Bottom	7.4	0.1	74	29.1	29.1	8.2	8.2	29.4	29.4	84.9	84.9	5.5	5.5	7.4		7			
					1	1.0	-	61	29.3		8.2		29.4		88.1		5.7		8.6		5			
					Surface	1.0	0.0	54	29.3	29.3	8.2	8.2	29.4	29.4	87.9	88.0	5.7		8.9		5			
						2.5	0.0	71	-		-		-		-		-	5.7	- 0.3		-			
SR1A	Cloudy	Moderate	14:46	4.9	Middle	2.5	0.0	63	+	-	<del>-</del>	-	<del>-</del>	-	-	-	-			9.7		6	819976	812664
						3.9	0.0	57	29.4		8.2		29.3		89.9		5.8		10.6		6			
					Bottom	3.9	-	53	29.4	29.5	8.2	8.2	29.3	29.3	90.4	90.2	5.9	5.9	10.6		7			
						1.0	0.2	44	29.7				28.5	<u> </u>			6.3		2.8		4			
					Surface	1.0	0.2	42	29.7	29.7	8.2	8.2	28.6	28.5	97.6 97.5	97.6	6.3		3.0		3			
						1.0	0.2	39	29.7		- 8.2		28.0		97.5		- 0.3	6.3	3.0					
SR2	Cloudy	Moderate	14:58	5.2	Middle					-		-		-	-	-	-			5.1	-	4	821461	814166
						- 10	0.2	42	- 20.4		-		- 20.7						- 74		-			
					Bottom	4.2		56	29.4 29.4	29.4	8.2	8.2	29.7	29.7	90.7	90.7	5.9 5.9	5.9	7.1 7.5		4			
						1.0	0.2	57			8.2													
					Surface	1.0	0.2	157 150	29.6 29.6	29.6	8.2	8.2	28.0	28.0	90.4	90.4	5.9 5.9		3.7		9			
																		5.9						
SR3	Cloudy	Moderate	15:10	9.4	Middle	4.7	0.1	136	29.4	29.4	8.2	8.2	28.7	28.8	88.1	88.2	5.8		8.3	9.2	7	7	822155	807570
						4.7 8.4	0.2	129	29.4		8.2		28.8		88.3		5.8		8.5		6			
					Bottom		0.2	128	29.4	29.4	8.2	8.2	29.3	29.3	90.9	91.0	5.9	5.9	15.6		6			
					1	8.4	0.2	132	29.4		8.2		29.3						15.5		6			
					Surface	1.0	0.0	113	29.5	29.5	8.3	8.3	29.5	29.5	94.4	94.4	6.1		9.5		4			
						1.0	0.1	114	29.5		8.3		29.5		94.4		6.1	6.1	9.4		3			
SR4A	Cloudy	Moderate	14:12	8.9	Middle	4.5	0.0	112	29.3	29.3	8.2	8.2	29.4	29.4	93.3	93.3	6.1		12.1	11.9	5	6	817205	807797
						4.5	0.0	118	29.3		8.2		29.4		93.2		6.1		11.7		6			
					Bottom	7.9	0.0	112	29.2	29.2	8.2	8.2	29.4	29.4	90.5	90.3	5.9	5.9	14.3		8			
			<u> </u>			7.9	0.0	108	29.2		8.2		29.4		90.1		5.9		14.4		7			
					Surface	1.0	-	-	29.9	29.9	8.2	8.2	29.3	29.3	89.2	89.1	5.8		6.2		6			
						1.0	-	-	29.8		8.2		29.3		88.9		5.7	5.8	6.2		7			
SR8	Cloudy	Moderate	14:27	5.1	Middle	-	-	-	-	-	-	-	-	-		-	-		-	9.3	-	7	820385	811621
						-	-	-	-		-		-		-		-		-		-			
					Bottom	4.1	-	-	29.2	29.3	8.2	8.2	29.3	29.3	87.1	87.2	5.7	5.7	12.8		7			
						4.1	-	-	29.3		8.2	-	29.3		87.2		5.7		12.1		7			

Water Quality Monitoring Results on 15 September 22 during Mid-Flood Tide

Water Qua	ity would	oring Kesu	ito oii		13 September 22	during wild-	<u> 1 1000                               </u>	uc																
Monitoring	Weather	Sea	Sampling	Water	Sampling Dept	h (m)	Current Speed	Current	Water Te	emperature (°C)	pl	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	ii (iii <i>)</i>	(m/s)	Direction	Value	Average	Value A	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.4	45	29.4	29.4	8.2	8.2	28.5	28.5	93.6	93.6	6.1		1.7		10			
					Guilace	1.0	0.4	41	29.4	23.4	8.2	0.2	28.5	20.0	93.6	93.0	6.1	6.0	1.7	]	11			
C1	Cloudy	Moderate	10:58	8.6	Middle	4.3	0.4	47	29.2	29.2	8.2	8.2	28.8	28.7	90.9	90.9	5.9	0.0	12.0	8.9	6	7	815614	804255
O1	Cloudy	Moderate	10.50	0.0	Middle	4.3	0.4	52	29.2	23.2	8.2	0.2		20.7	90.9	30.3	5.9		12.2	0.3	5	,	013014	004233
					Bottom	7.6	0.4	33	29.1	29.1	8.1	8.1	29.9 29.9	29.9	88.9	88.9	5.8	5.8	13.3		5			
					Dottom	7.6	0.4	31	29.1	29.1	8.1	0.1	29.9	25.5	88.9	00.3	5.8	5.0	12.6		4			
					Surface	1.0	0.2	349	29.5	29.5	8.2	8.2	28.7	28.7	94.5	94.5	6.2		3.7		11			
					Gundee	1.0	0.2	347	29.5	20.0	8.2	0.2	28.7	20.7	94.5	04.0	6.2	6.1	3.7	1	10			
C2	Cloudy	Moderate	09:27	11.2	Middle	5.6	0.2	333	29.3	29.3	8.2	8.2	29.3	29.3	91.9	91.9	6.0	0	7.9	7.3	9	9	825673	806943
02	Cicacy	moderate	00.27		madio	5.6	0.2	325	29.3	20.0	8.2	0.2	29.3	20.0	91.9	01.0	6.0		8.3	1.0	10	ŭ	0200.0	000010
					Bottom	10.2	0.2	355	29.2	29.2	8.2	8.2	29.4	29.4	88.6	88.6	5.8	5.8	9.9		7			
						10.2	0.2	348	29.2		8.2		29.4		88.6		5.8		10.2		7			
					Surface	1.0	0.4	271	29.1	29.1	8.1	8.1	29.6 29.7	29.7	80.6	80.6	5.3		4.5		9			
						1.0	0.4	268	29.1		8.1				80.5		5.3	5.1	4.4	l	8			
C3	Cloudy	Moderate	09:12	11.1	Middle	5.6 5.6	0.4	251 252	28.8 28.8	28.8	8.1	8.0	30.4	30.4	75.1 74.9	75.0	4.9		4.4 4.5	8.4	6 7	7	822086	817785
						10.1	0.5	252	28.6								4.9		16.0	ł	5			
					Bottom	10.1	0.4	257	28.6	28.6	8.1 8.1	8.1	31.2 31.2	31.2	73.6 73.7	73.7	4.8	4.8	16.6		4			
						1.0	0.4	17	29.2		8.2				90.4		5.9		6.3		5			
					Surface	1.0	0.2	22	29.2	29.2	8.2	8.2	29.4	29.4	90.4	90.4	5.9		6.6	ł	5			
						3.3	0.2	19	29.0		8.2		29.8		91.2		6.0	6.0	8.2		6			
IM1	Cloudy	Moderate	10:39	6.5	Middle	3.3	0.2	24	29.0	29.0	8.2	8.2	29.9	29.8	91.4	91.3	6.0		8.4	8.6	5	6	818341	806442
					5	5.5	0.2	39	28.9		8.2				93.5		6.1		10.9	1	7			
					Bottom	5.5	0.2	40	28.9	28.9	8.2	8.2	30.2	30.2	93.8	93.7	6.1	6.1	11.0		6			
					Surface	1.0	0.3	23	29.1	29.1	8.2	8.2	29.8	29.9	86.9	86.9	5.7		5.4		6			
					Surface	1.0	0.2	17	29.1	29.1	8.2	8.2	29.8 29.9	29.9	86.8	86.9	5.7	5.7	5.5	1	6			
IM2	Cloudy	Moderate	10:32	7.0	Middle	3.5	0.3	29	29.0	29.0	8.2	8.2	30.0	30.0	86.3	86.3	5.6	3.7	6.7	8.8	6	6	819193	806222
IIVIZ	Cloudy	Woderate	10.32	7.0	Middle	3.5	0.2	32	29.0	29.0	8.2	0.2	30.0	30.0	86.3	00.5	5.6		6.9	0.0	7	Ü	019193	000222
					Bottom	6.0	0.3	32	28.9	28.9	8.2	8.2	30.3	30.3	86.2	86.2	5.6	5.6	14.2		6			
					Dottom	6.0	0.3	29	28.9	20.3	8.2	0.2	30.3	30.3	86.2	00.2	5.6	5.0	14.1		7			
					Surface	1.0	0.2	348	29.4	29.4	8.1	8.1	27.3	27.3	87.7	87.7	5.8		2.4		6			
						1.0	0.3	351	29.4		8.1	···		20	87.6	J	5.8	5.8	2.4		6			
IM7	Cloudy	Moderate	10:08	8.5	Middle	4.3	0.3	325	29.4	29.4	8.1	8.1	27.3	27.3	86.8	86.8	5.7		2.8	3.1	7	6	821369	806825
	,					4.3	0.2	329	29.4		8.1	-	27.3	_	86.7		5.7		2.9		6	-		
					Bottom	7.5	0.2	352	29.3	29.3	8.1	8.1	27.5 27.5	27.5	86.4	86.5	5.7	5.7	3.9		6			
						7.5	0.2	357	29.3		8.1		27.5		86.5		5.7		4.0		7			

DA: Depth-Averaged

Water Quality Monitoring Results on

15 September 22 during Mid-Flood Tide

Water Qua			1		10 Ocptember 22	g					_				50.0							10 11		
Monitoring	Weather	Sea	Sampling	Water	Sampling Dept	h (m)	Current Speed	Current	Water Te	emperature (°C)		pН	Salin	ity (ppt)		aturation (%)	Disso Oxy		Turbidity	(NTU)	Suspende (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling Dept	11 (111)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
						1.0	0.4	294	29.3	00.0	8.1		28.7		84.2	04.0	5.5		10.7		9			
					Surface	1.0	0.4	292	29.3	29.3	8.1	8.1	28.7	28.7	84.2	84.2	5.5		10.8		10			
13.44.0	01	Madaata	40.00	7.0	NAC-L-III-	3.9	0.3	281	29.2	00.0	8.1	0.4	28.7	00.7	83.4	00.5	5.5	5.5	14.3	40.5	11	4.4	000040	000054
IM10	Cloudy	Moderate	10:20	7.8	Middle	3.9	0.3	284	29.2	29.2	8.1	8.1	28.7	28.7	83.5	83.5	5.5		14.4	13.5	10	11	822249	809854
					5	6.8	0.3	273	29.2	20.0	8.1		28.7		84.4		5.5		15.5		11			
					Bottom	6.8	0.3	270	29.2	29.2	8.1	8.1	28.7	28.7	84.4	84.4	5.5	5.5	15.0		12			
					0.7	1.0	0.5	285	29.2	00.0	8.1	0.4	28.7	00.7	84.3	04.0	5.5		12.7		7			
					Surface	1.0	0.5	278	29.2	29.2	8.1	8.1	28.7	28.7	84.3	84.3	5.5		12.6		6			
						4.0	0.4	281	29.1	20.4	8.1		28.7		84.2	04.0	5.5	5.5	14.5		6			040500
IM11	Cloudy	Moderate	10:14	8.0	Middle	4.0	0.4	286	29.1	29.1	8.1	8.1	28.7	28.7	84.2	84.2	5.5		14.7	14.2	5	6	821496	810560
						7.0	0.4	288	29.1		8.1		28.7		85.1		5.6		15.4		5			
					Bottom	7.0	0.4	293	29.1	29.1	8.1	8.1	28.7	28.7	85.2	85.2	5.6	5.6	15.5		5			
						1.0	0.5	288	29.2		8.1		29.0		85.1		5.6		4.8		10			
					Surface	1.0	0.5	284	29.2	29.2	8.1	8.1	29.0	29.0	85.0	85.1	5.6		5.0		9			
						4.1	0.5	271	29.1		8.1		29.2		83.1		5.4	5.5	5.3		12			
IM12	Cloudy	Moderate	10:09	8.2	Middle	4.1	0.4	268	29.1	29.1	8.1	8.1	29.2	29.2	83.0	83.1	5.4		5.3	7.7	13	13	821175	811518
						7.2	0.5	287	29.1		8.1		29.4		83.1		5.4		13.6		15			
					Bottom	7.2	0.4	287	29.1	29.1	8.1	8.1	29.4	29.4	83.1	83.1	5.4	5.4	12.1		16			
					1	1.0	0.0	201	29.2		8.1		29.1		81.1		5.3		9.9		9			
					Surface	1.0	0.0	198	29.2	29.2	8.1	8.1	29.1	29.1	81.1	81.1	5.3		9.9		10			
						2.8	0.0	178	-		-		-		-		-	5.3	-		-			
SR1A	Cloudy	Moderate	09:43	5.6	Middle	2.8	0.0	175	-	-	<del>-</del>	-	<del>-</del>	-	-	-	-			11.9		8	819975	812658
						4.6	0.0	212	29.1				_				5.1		13.7		5			
					Bottom	4.6	0.0	207	29.1	29.1	8.1 8.1	8.1	29.3	29.3	78.0 78.0	78.0	5.1	5.1	13.7		6			
					1	1.0	0.0	246	29.1								5.4				6			
					Surface	1.0	0.1	243	29.2	29.2	8.1 8.1	8.1	28.9	28.9	82.3 82.1	82.2	5.4		7.5 7.5		6			
						- 1.0	0.1	275	- 29.2		0.1		20.9		- 02.1		-	5.4	- 7.5					
SR2	Cloudy	Moderate	09:30	5.1	Middle				_	-		-		-		-	_			11.5	-	7	821477	814154
						-	0.1	278	- 20.4		- 0.4		- 20.0		- 04.4		-		- 45.0		-			
					Bottom	4.1 4.1	0.1	270	29.1 29.1	29.1	8.1	8.1	29.2	29.2	81.1	81.2	5.3 5.3	5.3	15.6 15.4		8 9			
							0.1	272			8.1													
					Surface	1.0	0.2	322	29.6	29.6	8.2	8.2	27.1	27.2	88.8	88.8	5.8		2.7		9			
						1.0	0.3	317	29.6		8.2		27.2		88.8		5.8	5.7	2.8		9			
SR3	Cloudy	Moderate	10:02	8.5	Middle	4.3	0.2	338	29.3	29.3	8.2	8.2	28.1	28.1	84.0	84.0	5.5		4.5	6.3	10	10	822167	807552
	-					4.3	0.2	340	29.3		8.2		28.1		84.0		5.5		4.5		9			
					Bottom	7.5	0.3	331	29.3	29.3	8.2	8.2	28.1	28.1	84.5	84.5	5.5	5.5	11.7		10			
						7.5	0.3	337	29.3		8.2		28.1		84.5		5.5		11.7		10			
					Surface	1.0	0.0	160	29.4	29.4	8.2	8.2	29.5	29.5	90.7	90.7	5.9		5.9		6			
						1.0	0.0	161	29.4		8.2		29.5		90.7		5.9	5.9	5.6		6			
SR4A	Cloudy	Moderate	11:17	8.8	Middle	4.4	0.0	157	29.3	29.3	8.1	8.1	29.9	29.9	89.4	89.4	5.8		4.3	6.3	6	7	817185	807828
						4.4	0.0	151	29.3		8.1		29.9		89.4		5.8		4.3		7			
					Bottom	7.8	0.0	193	29.2	29.2	8.1	8.1	29.9	29.9	84.8	84.8	5.5	5.5	8.9		8			
			<u> </u>			7.8	0.0	195	29.2		8.1		29.9		84.8		5.5		8.6		7			
					Surface	1.0	-	-	29.4	29.4	8.1	8.1	28.5	28.5	87.7	87.8	5.7		4.8		6			
						1.0	-	-	29.4	-	8.1		28.5		87.8		5.7	5.7	4.8		6			
SR8	Cloudy	Moderate	10:02	5.1	Middle	-	-	-	-	-	-	_	-	-	-	-	-		-	10.2	-	8	820377	811625
						-	-	-	-		-		-		-		-		-		-	-		
					Bottom	4.1	-	-	29.1	29.1	8.1	8.1	28.6	28.6	86.8	88.3	5.7	5.8	15.6		10			
					201.0	4.1	-	-	29.1	20	8.1	0	28.6		89.8	00.0	5.9	0.0	15.5		10			

Water Quality Monitoring Results on 17 September 22 during Mid-Ebb Tide

	ty moint	orning Nesu	113 011		17 September 22	daring mid	LDD IIG																	
Monitoring	Weather	Sea	Sampling	Water	Sampling Deptl	n (m)	Current Speed	Current	Water Te	emperature (°C)	pl	н	Salin	nity (ppt)		aturation (%)	Disso Oxyg		Turbidity	(NTU)	Suspende (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Затіріні ў Берп		(m/s)	Direction	Value	Average	Value A	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.1	216	29.1	29.1	8.4	8.4	24.6 24.6	24.6	121.6	121.6	8.2		4.1		3			
					Ounace	1.0	0.1	221	29.1	23.1	8.4	0.4	24.6	24.0	121.5	121.0	8.1	6.3	4.1		3			
C1	Rainy	Moderate	16:54	7.8	Middle	3.9	0.1	223	27.7	27.7	8.2	8.2	29.8	29.8	68.1	68.1	4.5	0.5	9.1	8.6	3	3	815615	804270
01	rtairy	Moderate	10.04	7.0	IVIIdalo	3.9	0.1	224	27.7	27.1	8.2	0.2	29.8	20.0	68.1	00.1	4.5		9.2	0.0	3	Ü	010010	004270
					Bottom	6.8	0.0	224	27.6	27.6	8.2	8.2	30.1	30.0	64.0	63.9	4.3	4.3	12.9	1	4			
					Bottom	6.8	0.0	226	27.6	27.0	8.2	0.2	30.0	00.0	63.8	00.0	4.3	4.0	12.3		4			
					Surface	1.0	0.1	246	29.9	29.9	8.4	8.4	23.1	23.1	124.5	124.5	8.3		1.0		<2			
					Cultuoc	1.0	0.1	239	29.8	20.0	8.4	0.4		20.1	124.5	124.0	8.3	7.0	1.0	1	<2			
C2	Rainy	Moderate	15:41	11.7	Middle	5.9	0.0	229	29.0	29.0	8.2	8.2	26.1	26.1	85.6	85.6	5.7	7.0	2.8	2.7	2	3	825703	806932
02	rtairy	Moderate	10.41	, , , ,	IVIIdalo	5.9	-	235	29.0	20.0	8.2	0.2		20.1	85.5	00.0	5.7		2.9	2.,	3	Ü	020700	000002
					Bottom	10.7	0.1	223	29.0	29.0	8.2	8.2	26.4	26.4	85.4	85.4	5.7	5.7	4.2		4			
					Bottom	10.7	0.1	227	29.0	20.0	8.2	0.2	26.4	20.⊣	85.4	00.⊣	5.7	0.7	4.3		3			
					Surface	1.0	0.0	335	29.1	29.1	8.3	8.3	30.7	30.8	111.8	109.4	7.3		1.0	1	5			
					Cultuoc	1.0	0.1	329	29.0	20.1	8.3	0.0	30.9	00.0	107.0	100.4	6.9	6.6	1.0	1	5			
С3	Misty	Moderate	16:38	8.6	Middle	4.3	0.0	306	28.8	28.8	8.3	8.3	31.3	31.4	95.9	94.6	6.2	0.0	1.4	1.6	4	4	822112	817805
05	iviloty	Moderate	10.50	0.0	iviidale	4.3	0.0	307	28.8	20.0	8.3	0.5	31.4	31.4	93.2	34.0	6.1		1.5	1.0	5	7	022112	017003
					Bottom	7.6	0.0	322	28.8	28.8	8.3	8.3	31.6	31.6	92.7	93.2	6.0	6.1	2.5		4			
					Dottom	7.6	0.1	314	28.8	20.0	8.3	0.0	31.6	31.0	93.7	33.2	6.1	0.1	2.4		3			
					Surface	1.0	0.1	196	30.2	30.2	8.3	8.3	24.7	24.7	122.1	122.2	8.0		2.7		<2			
					Currace	1.0	0.1	193	30.2	00.2	8.3	0.0	24.7	2-7.7	122.2	122.2	8.0	7.9	2.8	1	<2			
IM1	Rainy	Moderate	16:36	6.4	Middle	3.2	0.0	200	29.9	29.9	8.3	8.3	25.2 25.3	25.2	116.3	116.2	7.7	7.0	5.8	5.6	<2	<2	818330	806451
	rtairy	Moderate	10.00	0.4	IVIIdalo	3.2	0.0	202	29.8	20.0	8.3	0.0		20.2	116.1	110.2	7.7		6.1	0.0	<2		010000	000401
					Bottom	5.4	0.0	201	29.1	29.1	8.3	8.3	26.8	26.8	102.6	102.5	6.8	6.8	8.1		<2			
					20110111	5.4	0.0	207	29.1	20.1	8.3	0.0	26.8	20.0	102.4	.02.0	6.8	0.0	8.1		<2			
					Surface	1.0	0.1	125	30.1	30.1	8.3	8.3	24.6	24.6	123.2	123.3	8.1		2.7		3			
					Cultuoc	1.0	0.1	128	30.1	00.1	8.3	0.0	24.6	24.0	123.3	120.0	8.1	8.1	2.7	1	2			
IM2	Rainy	Moderate	16:30	6.5	Middle	3.3	0.1	117	29.7	29.7	8.3	8.3	26.2 26.2	26.2	122.0	122.0	8.0	0.1	3.0	3.5	3	3	819203	806245
11412	ramy	Moderate	10.00	0.0	IVIIGGIO	3.3	0.0	110	29.7	20.7	8.3	0.0		20.2	121.9	122.0	8.0		3.0	0.0	3	Ü	310200	0002-10
					Bottom	5.5	0.0	113	28.8	28.8	8.2	8.2	27.4	27.4	91.0	91.2	6.0	6.1	4.6	]	2			
					Dottom	5.5	0.0	117	28.7	25.0	8.2	0.2	27.4	21.4	91.4	01.2	6.1	0.1	4.7		2			
					Surface	1.0	0.1	116	29.4	29.5	8.2	8.2	24.5	24.5	101.4	101.5	6.8		2.3		3			
					Ouriace	1.0	0.0	118	29.5	23.5	8.2	0.2	24.5	24.0	101.6	101.5	6.8	6.5	2.3	]	3			
IM7	Rainy	Moderate	16:06	8.2	Middle	4.1	0.0	114	29.3	29.3	8.2	8.2	25.4 25.5	25.4	93.6	93.6	6.2	0.5	4.3	5.6	2	2	821361	806839
11417	raniy	Moderate	10.00	0.2	WIIGGIG	4.1	0.0	115	29.2	23.5	8.2	0.2		20.7	93.6	90.0	6.2		4.3	0.0	2	-	JZ 1JU I	000039
					Bottom	7.2	0.1	91	29.0	29.0	8.2	8.2	26.7	26.7	88.7	88.7	5.9	5.9	10.1	]	<2			
					DOLLOTT	7.2	0.1	86	29.0	29.0	8.2	0.2	26.7	20.7	88.7	00.7	5.9	5.5	10.4		<2			

DA: Depth-Averaged

Water Quality Monitoring Results on 17 September 22 during Mid-Ebb Tide

water Quar	,	ormig ittees			17 September 22	aaring iiia		•																
Monitoring	Weather	Sea	Sampling	Water	Complie - Desi	h (m)	Current Speed	Current	Water Te	emperature (°C)		рН	Salin	ity (ppt)		aturation (%)	Disso Oxy	olved ⁄gen	Turbidity	(NTU)	Suspende (mg/		Coordinate	Coordinate
Station	Condition	Condition	Time	Depth (m)	Sampling Dept	rı (m)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	HK Grid (Northing)	HK Grid (Easting)
					Conferen	1.0	0.0	1	29.8	20.0	8.4	0.4	28.0	20.0	112.5	444.0	7.3		1.0		3			Ì
					Surface	1.0	0.0	356	29.8	29.8	8.4	8.4	28.1	28.0	109.5	111.0	7.1		1.0	1	3			
IMAO	Minter	Madaust-	45.00	0.0	NA: dalla	4.6	0.0	1	29.9	20.0	8.4	0.4	28.5	20.0	100.2	400.0	6.5	6.9	1.1	4.0	3	2	000047	000000
IM10	Misty	Moderate	15:39	9.2	Middle	4.6	0.0	359	30.0	30.0	8.4	8.4	28.6	28.6	100.2	100.2	6.5	1	1.1	1.3	3	3	822247	809823
					Pottom	8.2	0.0	21	30.3	30.3	8.3	0.4	28.9	20.0	108.0	100.6	6.9	7.0	1.9	1	4			
			<u> </u>		Bottom	8.2	0.0	20	30.3	30.3	8.4	8.4	28.8	28.9	111.1	109.6	7.1	7.0	1.7		3			
					Surface	1.0	0.1	321	29.6	29.6	8.3	8.3	28.5	28.6	107.4	106.9	7.0		3.9		3			
					Sulface	1.0	0.1	325	29.5	29.0	8.3	0.5	28.6	20.0	106.3	100.9	6.9	6.5	3.8		3			
IM11	Misty	Moderate	15:44	8.0	Middle	4.0	0.0	311	29.3	29.3	8.3	8.3	29.1	29.2	92.5	92.3	6.0	0.5	4.9	4.9	2	3	821514	810538
IIVIII	iviisty	Moderate	13.44	0.0	Middle	4.0	0.0	308	29.3	29.5	8.3	0.5	29.2	29.2	92.1	92.5	6.0		4.9	4.9	3	3	021314	010330
					Bottom	7.0	0.0	329	29.3	29.3	8.3	8.3	29.3	29.3	94.2	95.4	6.1	6.2	6.0		2			
					Bottom	7.0	0.0	324	29.3	29.5	8.3	0.5	29.3	29.3	96.5	33.4	6.3	0.2	6.0		2			
· · · · · · · · · · · · · · · · · · ·		·			Surface	1.0	0.0	347	29.3	29.3	8.3	8.3	29.3	29.3	99.3	99.3	6.5		6.9		2			
					Guildoo	1.0	0.1	339	29.3	20.0	8.3	0.0	29.3	20.0	99.3	55.5	6.5	6.1	6.9		3			
IM12	Misty	Moderate	15:49	7.8	Middle	3.9	0.0	7	29.1	29.1	8.2	8.2	29.6	29.6	85.8	85.8	5.6	"	7.3	7.4	3	3	821160	811504
2	imoty	moderate	10.10	1.0	madio	3.9	0.0	12	29.1	20.1	8.2	0.2	29.6	20.0	85.7	00.0	5.6		7.3		3	Ü	021100	011001
					Bottom	6.8	0.0	351	29.1	29.1	8.2	8.2	29.7	29.6	91.2	92.8	6.0	6.1	8.1		4			
					=	6.8	0.1	357	29.1		8.3		29.6		94.4		6.2		8.0		3			
					Surface	1.0	0.0	7	30.0	30.0	8.2	8.2	28.2	28.2	101.5	99.9	6.6		6.0		5			
						1.0	0.0	6	30.0		8.2		28.2		98.2		6.4	6.5	6.1		4			
SR1A	Misty	Moderate	16:09	5.6	Middle	2.8	0.0	25	-	-	-	-	-	-	-	-	-		-	6.7	-	4	819979	812663
	-					2.8	0.1	24	-		-		-		-		-		-		-			
					Bottom	4.6	0.0	358	29.9	30.0	8.2	8.2	28.4	28.4	92.5	94.3	6.0	6.1	7.4		4			
						4.6	0.1	356	30.0		8.2		28.3		96.1		6.2		7.4		4			
					Surface	1.0	0.1	19	29.8	29.8	8.3	8.3	28.2	28.2	111.0	108.9	7.2	ł	2.2		4			
						1.0	0.1	21	29.7		8.3		_		106.8		7.0	7.1			4			
SR2	Misty	Moderate	16:20	5.8	Middle	-	0.0	29 25	-	-	-	-	-	-	-	-	-	ł	-	3.1	-	5	821483	814176
						4.8	0.1	39	29.5		8.3		28.7		104.8		6.8		4.0		5			
					Bottom	4.8	0.1	32	29.5	29.5	8.3	8.3	27.2	28.0	104.8	104.5	6.8	6.8	4.0		6			
						1.0	0.1	73	29.7		8.3		23.6		112.7		7.5		1.3		<2			
					Surface	1.0	0.1	80	29.7	29.7	8.3	8.3	23.6	23.6	112.7	112.8	7.5	1	1.3		<2			
						4.5	0.0	56	29.7		8.1	<b> </b>	25.3		87.5		5.8	6.7	3.2		2			
SR3	Rainy	Moderate	15:59	8.9	Middle	4.5	0.0	60	29.3	29.3	8.1	8.1	25.3	25.3	87.3	87.4	5.8		3.3	3.2	3	2	822130	807578
					_	7.9	0.0	70	29.2		8.1		25.6		80.5		5.4	<u> </u>	5.2	1	2			
					Bottom	7.9	0.0	65	29.2	29.2	8.1	8.1	25.5	25.5	80.6	80.6	5.4	5.4	5.2		3			
			<u> </u>			1.0	0.0	315	29.8		8.4		24.5		127.3		8.4		4.3		2			
					Surface	1.0	0.1	309	29.8	29.8	8.4	8.4	24.5	24.5	127.1	127.2	8.4	7.0	4.2	1	2			
CD 4.4	Deli	Maderet	47:44	0.0	NAC-1-II -	4.5	0.1	306	29.0	20.0	8.2	0.0	25.9	20.0	102.6	100.1	6.8	7.6	13.7		<2	_	047404	007000
SR4A	Rainy	Moderate	17:11	9.0	Middle	4.5	0.1	304	29.0	29.0	8.2	8.2	26.0	26.0	102.2	102.4	6.8	1	13.2	9.4	<2	2	817194	807823
					Dattan	8.0	0.0	326	28.6	20.7	8.2	0.0	27.1	27.4	83.8	02.0	5.6	F.C.	10.7		<2			
					Bottom	8.0	0.0	321	28.7	28.7	8.2	8.2	27.1	27.1	83.8	83.8	5.6	5.6	10.6		<2			
					Curtooo	1.0	-	-	29.6	20.6	8.3	0.2	28.4	20 5	114.4	112.4	7.4		5.3		4			
					Surface	1.0	-	-	29.6	29.6	8.3	8.3	28.6	28.5	112.4	113.4	7.3	١,,	5.3		4			
SR8	Mioty	Moderate	15.54	E 4	Middle	-	-	-	-		-		-		-		-	7.4	-	5.7	-		920442	011645
SKØ	Misty	Moderate	15:54	5.4	Middle	-	-	-	-	-	-	1 -	-	1 -	-	-	-	1	-	5.7	-	4	820412	811615
					Bottom	4.4	-	-	29.4	29.5	8.3	8.3	29.2	29.1	101.8	103.5	6.6	6.7	6.1		3			
					DOLLOTT	4.4	-	-	29.5	25.5	8.3	0.5	29.1	23.1	105.1	103.3	6.8	0.7	6.1		3			

Water Quality Monitoring Results on 17 September 22 during Mid-Flood Tide

water Qua	iity wonit	oring Resu	แร บท		17 September 22	auring mia-	rioda II	ue																
Monitoring	Weather	Sea Sampling Water		Compline Donath (m)		Current Speed	Current	Water Temperature (°C)		рН		Salin	Salinity (ppt)		DO Saturation (%)		olved gen	Turbidity(NTU)		Suspended Solids (mg/L)		Coordinate	Coordinate	
Station	Condition	Condition	Time	Depth (m)	Sampling Depth (m)		(m/s)	Direction	Value	Average	Value A	verage	Value	Average	Value		DA	Value	DA	HK Grid (Northing)	HK Grid (Easting)			
					0 /	1.0	0.2	30	29.2		8.3		25.4	0= 4	91.5		6.1		5.1		2			
C1	Cloudy	Moderate	12:01	7.9	Surface	1.0	0.2	23	29.1	29.2	8.3	8.3	25.5		91.6	91.6	6.1		5.5	1	2			1
					Middle	4.0	0.3	44	28.4	28.4	8.2		27.1	27.1	83.7		5.6 5.6	5.9	7.1	7.8	3	_		
						4.0	0.2	37	28.3		8.2	8.2	27.2		83.5	83.6			7.0		2	3	815639	804247
					Bottom	6.9	0.2	48	28.1	28.1	0.2				74.3		5.0		10.9	Ī	3			
						6.9	0.3	51	28.1		8.2	8.2	28.4	28.3	74.3		5.0	5.0	10.9	1	3			
C2	Cloudy	Moderate	13:04	11.4	Surface	1.0	0.2	336	30.0	30.0	8.2		22.3		109.8	400 =	7.4	_	0.8		3 2	3	825701	806962
						1.0	0.2	335	30.0		8.2	8.2	22.3		109.6	109.7	7.3	0.7	0.8	1				
					Middle	5.7	0.2	9	29.2	29.2	8.1	0.4	25.4	25.4 89.	89.4	89.3	6.0	6.7	1.4	3.6	2			
						5.7	0.2	13	29.2		8.1	8.1	25.4	25.4	89.2	89.3	6.0		1.4	3.6	3			
					Bottom	10.4	0.2	12	29.0	29.0	8.1	8.1	26.1 26.0		77.2	77.2	5.2	5.2	8.9	1				
						10.4	0.1	11	29.0		8.1	0.1	26.0		77.2	11.2	5.2		8.1		4		<u> </u>	
СЗ	Misty	Moderate	11:14	9.6	Surface	1.0	0.3	269	30.2	30.2	8.4	8.4	27.1	27.2	119.2	2 119.0	7.7		2.0		4			817786
						1.0	0.3	266	30.1		8.4	0.4	27.2	21.2	118.8	119.0	7.7 6.9	6.0	2.2	3.5	4			
					Middle	4.8	0.3	258	29.3	29.3	8.4	8.4	29.3 29.4	29.3	92.9	92.8	6.1	0	4.3		4	4	822105	
						4.8	0.3	251	29.2	20.0	8.4	0.7			92.6	02.0	6.0		4.4		5	-		
					Bottom	8.6	0.4	262	29.2	29.3	8.4 8.5	8.4	29.5 29.3		96.8	98.2	6.3	6.4	4.3		5			
						8.6	0.4	255	29.3			0		20	99.5		6.5	0	4.0		4			
IM1	Cloudy	Moderate	12:16	6.4	Surface	1.0	0.1	16	29.1	29.1	8.2	8.2	26.4 26.4	26.4	94.6	94.6	6.3		3.4	_	3		818339	806468
						1.0	0.2	20	29.1		8.2				94.5		6.3	62	3.7	<b> </b>	2			
					Middle	3.2	0.1	20	28.5	28.5	8.2	8.2	27.3	27.3	91.0	91.0	6.1		10.1	9.7	3	3		
						3.2	0.1	20	28.5		8.2				90.9		6.1		10.2	4 - 1-	3			
					Bottom	5.4	0.1	22	28.5	28.5	8.2	8.2	27.4	27.4	90.2	90.2	6.0	6.0	15.4	1	3	4		
						5.4 1.0	0.1	25	28.5		8.2		27.4		90.1		6.0		15.6	+-	4			
IM2	Cloudy	Moderate	12:21	7.6	Surface	1.0	0.1	0 352	29.6 29.6	29.6	8.3	8.3	25.9 25.9		123.7 123.5	123.6	8.2		2.1	4	3	3	819186	806223
						3.8	0.1	342	28.3		0.2				85.3		5.7		5.5	-				
					Middle	3.8	0.0	347	28.3	28.3	8.2	8.2	28.0	28.1	85.4	85.4	5.7	7	5.5	5.7	3			
					Bottom	6.6	0.0	335	28.2		8.1		28.5		69.2		4.6	4.6	9.5	-	2			
						6.6	0.1	333	28.2	28.2	8.1	8.1			69.4	69.3	4.6		9.8	1	2			
IM7	Cloudy	Moderate	12:39	8.1	Surface	1.0	0.1	322	29.6	<u> </u>	8.2				108.4		7.3		1.2	2	2			$\overline{}$
						1.0	0.1	326	29.6	29.6	8.2	8.2	23.0		108.5	108.5	7.2		1.2		2			
					Middle	4.1	0.1	311	29.3		0.2			22.0 9	97.6		6.6	6.9	1.9	1	2			806839
						4.1	0.1	303	29.3	29.3	8.2	8.2	23.8		97.5	97.6	6.5		1.9	2.0	2	2	821371	
					Bottom	7.1	0.1	319	29.3	00.0	8.1	0.4	24.9		88.1	00.4	5.0	<b>50</b>	2.9	2 2		1		
						7.1	0.1	321	29.3	29.3	8.1	გ.1			88.1	88.1		5.9	2.9					
DA: Donth Avo					•		•												•	•	•			•

DA: Depth-Averaged

Water Quality Monitoring Results on 17 September 22 during Mid-Flood Tide

Water Quar		orning recou			17 September 22	aag ma		u -																
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	271	29.6	29.6	8.2	8.1	27.7	27.8	101.3	100.3	6.6		6.2		2			
					Surface	1.0	0.3	266	29.5	29.0	8.1	0.1	27.8	21.0	99.2	100.3	6.5	6.2	6.3	1	3			
IM10	Misty	Moderate	12:13	8.4	Middle	4.2	0.2	292	29.5	29.5	8.1	8.1	28.3	28.3	88.9	89.0	5.8	0.2	7.2	7.3	4	3	822249	809831
IIVITO	iviisty	Moderate	12.13	0.4	Middle	4.2	0.2	292	29.5	29.5	8.1	0.1	28.3	20.5	89.0	09.0	5.8		7.1	7.3	3	3	022249	009031
					Bottom	7.4	0.2	274	29.5	29.5	8.1	8.1	28.3	28.3	92.8	93.6	6.1	6.2	8.4		3			
					Dottom	7.4	0.2	268	29.5	29.5	8.2	0.1	28.3	20.5	94.3	33.0	6.2	0.2	8.5		4			
					Surface	1.0	0.3	291	29.6	29.6	8.2	8.2	26.3	26.3	105.6	105.2	7.0	1	4.1		4			
						1.0	0.3	296	29.6	20.0	8.2	0.2	26.4	20.0	104.8	100.2	6.9	6.5	4.1		4			
IM11	Misty	Moderate	12:08	9.0	Middle	4.5	0.3	261	29.4	29.4	8.1	8.1	28.4	28.4	91.3	91.4	6.0	0.0	5.6	5.4	3	3	821501	810552
						4.5	0.3	261	29.4		8.1	*	28.4		91.5		6.0		5.5	1	3			
					Bottom	8.0	0.3	296	29.5	29.5	8.2	8.2	28.4	28.4	94.7	95.4	6.2	6.3	6.6	_	3			
						8.0	0.3	297	29.5		8.2		28.4		96.1		6.3		6.5		3			
					Surface	1.0	0.3	284	29.4	29.4	8.1	8.1	28.7	28.7	91.0	90.9	5.9		7.4	4	2			
						1.0	0.3	283	29.4		8.1		28.8		90.8		5.9	5.9	7.3	4	2			
IM12	Misty	Moderate	12:02	7.6	Middle	3.8	0.3	286	29.4	29.4	8.1	8.1	29.0	29.1	89.2	89.0	5.8	l	8.2	8.4	3	3	821173	811532
						3.8	0.3	281	29.4		8.1		29.1		88.8		5.8		8.1	4	2			
					Bottom	6.6	0.3	293	29.4	29.4	8.1	8.1	29.2	29.2	90.1	90.7	5.9	5.9	9.5	1	3			
				1		1.0	0.3	288	29.4		8.1				91.2		5.9	1	9.6		3			
					Surface	1.0	0.0	187 180	29.7 29.6	29.7	8.2 8.2	8.2	27.3	27.3	99.2	99.2	6.5 6.5	ł	2.8	-	3			
						2.0	0.0	185	-		-		-		- 99.1		-	6.5	-	-	-			
SR1A	Misty	Moderate	11:39	4.0	Middle	2.0	0.0	186	-	-		-	-	-		-	-	ł	-	2.9	<u> </u>	3	819973	812655
						3.0	-	185	29.6		8.2		27.4		100.3		6.6		3.1	1	3			
					Bottom	3.0	0.0	179	29.6	29.6	8.2	8.2	27.3	27.3	101.3	100.8	6.6	6.6	3.2	1	4			
						1.0	0.1	280	29.5		8.3		28.8		94.0		6.1		5.3		3			
					Surface	1.0	0.1	275	29.5	29.5	8.3	8.3	28.8	28.8	93.7	93.9	6.1	1	5.6	1	3			
000			44.00			-	0.1	268	-		-		-		-		-	6.1	-		-			044470
SR2	Misty	Moderate	11:28	4.4	Middle	-	0.1	265	-	-	-	-	-	-	-	-	-	1	-	5.8	-	4	821444	814178
					Dettern	3.4	0.1	272	29.4	20.4	8.3	0.0	29.1	20.0	94.1	04.5	6.1	6.2	6.1	1	5			
					Bottom	3.4	0.1	268	29.4	29.4	8.3	8.3	29.0	29.0	94.8	94.5	6.2	0.2	6.2	1	4			
					Surface	1.0	0.1	343	29.7	29.7	8.2	8.2	22.5	22.5	109.8	109.5	7.4		1.4		2			
					Sullace	1.0	0.1	347	29.7	29.1	8.2	0.2	22.5	22.5	109.2	109.5	7.3	6.6	1.6		3			
SR3	Cloudy	Moderate	12:46	9.2	Middle	4.6	0.1	321	29.3	29.3	8.1	8.1	25.1	25.2	88.9	88.8	5.9	0.0	2.9	3.1	2	2	822148	807580
511.5	Oloudy	Moderate	12.70	9.2	WIIGGIE	4.6	0.1	314	29.3	23.3	8.1	0.1	25.2	20.2	88.6	00.0	5.9		2.9	3.1	2	_	022170	307300
					Bottom	8.2	0.1	338	29.1	29.2	8.1	8.1	25.8	25.8	79.3	79.3	5.3	5.3	4.8	1	<2			
			<u> </u>		2000	8.2	0.1	334	29.2		8.1	· · ·	25.8	20.0	79.3	. 0.0	5.3	0.0	4.8		<2			
					Surface	1.0	0.0	263	29.2	29.2	8.1	8.1	26.4	26.4	87.9	87.8	5.8		6.9	1	<2			
						1.0	0.1	256	29.2		8.1		26.4		87.7		5.8	5.8	6.8	1	<2			
SR4A	Cloudy	Moderate	11:41	8.8	Middle	4.4	0.0	263	29.1	29.1	8.1	8.1	26.4	26.4	86.0	86.0	5.7		7.7	7.6	<2	2	817166	807794
						4.4	0.0	263	29.1		8.1		26.4		85.9		5.7		7.7	4	<2			
					Bottom	7.8	0.0	268	29.1	29.1	8.1	8.1	26.3	26.3	85.2	85.2	5.7	5.7	8.3	4	2			
			<u> </u>			7.8	0.0	264	29.1		8.1		26.3		85.2		5.7		8.3	1	2			
					Surface	1.0	-	-	31.1	31.1	8.2	8.2	26.5	26.5	104.0	104.0	6.7	l	6.3	4	4			
					-	1.0	-	-	31.0		8.2		26.6		104.0		6.8	6.8	6.4	4	5			
SR8	Misty	Moderate	11:57	5.4	Middle	-	-	-	-	-	-	-	-	-	-	-	-	1	-	6.7	-	4	820370	811606
					-	4.4	-	-	29.5		8.2		29.0				- 66	1	7.0	1	2			
					Bottom	4.4	-	-	29.5	29.6	8.2	8.2	28.0	28.0	101.6	102.1	6.6	6.7	7.0	-	4			
			1			4.4		-	29.0		ö.2		21.9		102.5		0.7		7.0	1	4			

DA: Depth-Averaged

Water Quality Monitoring Results on 20 September 22 during Mid-Ebb Tide

	,	orning Nesu			20 September 22	aaring iiia																		
Monitoring	Weather	Sea	Sampling	Water	Sampling Deptl	h (m)	Current Speed	Current	Water Te	emperature (°C)	pl	Н	Salin	nity (ppt)		aturation (%)	Disso Oxy		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	0.4	203	28.5	28.5	8.2	8.2	30.2	30.2	98.4	98.4	6.5		2.9		3			
					Sulface	1.0	0.4	206	28.5	20.5	8.2	0.2	30.2	30.2	98.4	30.4	6.5	5.9	3.0		4			
C1	Cloudy	Moderate	09:54	8.2	Middle	4.1	0.3	227	28.3	28.3	8.2	8.2	30.5	30.5	80.4	80.4	5.3	5.5	10.2	8.7	4	4	815611	804264
O1	Cloudy	Woderate	05.54	0.2	Middle	4.1	0.3	231	28.3	20.3	8.2	0.2	30.4	30.3	80.4	00.4	5.3		10.5	0.7	5	4	013011	004204
					Bottom	7.2	0.4	229	28.2	28.2	8.1	8.1	31.6	31.6	58.9	58.9	3.8	3.8	12.6		5			
					Bottom	7.2	0.4	225	28.2	20.2	8.1	0.1	31.6	31.0	58.9	30.3	3.8	5.0	12.9		4			
					Surface	1.0	0.5	168	28.6	28.6	8.2	8.2	30.4	30.4	108.6	108.6	7.1		4.9		5			
					Sulface	1.0	0.5	163	28.6	20.0	8.2	0.2	30.4	30.4	108.6	100.0	7.1	7.0	4.9		4			
C2	Cloudy	Moderate	08:31	10.4	Middle	5.2	0.6	175	28.4	28.4	8.1	8.1	31.0	31.0	104.5	104.5	6.8	7.0	9.2	8.5	5	6	825694	806958
02	Cloudy	Woderate	00.31	10.4	Middle	5.2	0.5	168	28.4	20.4	8.1	0.1	31.1	31.0	104.5	104.5	6.8		9.6	0.5	6	Ü	023094	000930
					Bottom	9.4	0.6	185	28.3	28.3	8.1	8.1	31.1	31.1	62.6	62.6	4.1	4.1	11.1		7			
					Bottom	9.4	0.6	180	28.3	20.3	8.1	0.1	31.1	31.1	62.6	02.0	4.1	4.1	11.4		7			
					Surface	1.0	0.3	65	29.4	29.4	8.4	8.4	27.4	27.4	130.1	130.1	8.6		0.4		5			
					Sulface	1.0	0.4	62	29.4	29.4	8.4	0.4	27.4	21.4	130.0	130.1	8.5	7.5	0.5		6			
C3	Cloudy	Moderate	08:22	11.9	Middle	6.0	0.3	69	29.0	29.0	8.2	8.2	30.3	30.3	100.1	100.1	6.5	7.5	2.1	2.0	5	5	822088	817822
0.5	Cloudy	Woderate	00.22	11.9	Middle	6.0	0.3	70	29.0	29.0	8.2	0.2	30.3	30.3	100.0	100.1	6.5		2.2	2.0	4	J	022000	017022
					Bottom	10.9	0.3	68	28.1	28.1	8.1	8.1	32.8 32.8	32.8	74.2	74.3	4.8	4.8	3.5		5			
					Dottom	10.9	0.3	67	28.1	20.1	8.1	0.1	32.8	32.0	74.3	74.3	4.8	4.0	3.5		4			
					Surface	1.0	0.3	180	28.6	28.6	8.2	8.2	31.7	31.7	78.6	78.6	5.1		3.3		4			
					Surface	1.0	0.4	178	28.6	20.0	8.2	0.2	31.7	31.7	78.5	70.0	5.1	4.5	3.3		4			
IM1	Cloudy	Moderate	09:32	6.2	Middle	3.1	0.3	211	27.9	27.9	8.1	8.1	33.4	33.4	58.3	58.4	3.8	4.5	8.3	7.5	4	4	818361	806435
11011	Cioday	Woderate	03.52	0.2	Middle	3.1	0.3	217	27.9	21.5	8.1	0.1	33.4	33.4	58.4	30.4	3.8		8.4	7.5	3	7	010301	000433
					Bottom	5.2	0.3	204	27.8	27.8	8.1	8.1	33.5	33.5	60.0	60.1	3.9	3.9	10.6		3			
					Bottom	5.2	0.3	202	27.8	27.0	8.1	0.1	33.5	00.0	60.2	00.1	3.9	0.0	10.8		3			
					Surface	1.0	0.4	215	28.5	28.5	8.2	8.2	31.8	31.8	78.4	78.4	5.1		4.8		5			
					Gariage	1.0	0.4	210	28.5	20.0	8.2	0.2	31.8	01.0	78.4	70.4	5.1	4.5	4.8		4			
IM2	Cloudy	Moderate	09:26	7.2	Middle	3.6	0.5	196	27.9	27.9	8.1	8.1	33.2 33.2	33.2	58.4	58.4	3.8	4.0	10.0	8.8	4	4	819170	806255
11412	Cloudy	Woderate	00.20	7.2	Middle	3.6	0.5	201	27.9	27.0	8.1	0.1		00.2	58.4	00.4	3.8		10.2	0.0	4	-	010170	000200
					Bottom	6.2	0.4	215	27.9	27.9	8.1	8.1	33.3	33.3	54.8	54.9	3.6	3.6	11.5		4			
					Bottom	6.2	0.4	215	27.9	27.0	8.1	0.1	33.3	00.0	54.9	04.0	3.6	0.0	11.5		4			
					Surface	1.0	0.3	219	29.8	29.8	8.5	8.5	26.8	26.8	140.8	140.5	9.2		2.0		6			
					Guilace	1.0	0.2	213	29.8	23.0	8.5	0.0	26.8	20.0	140.1	170.5	9.2	7.5	2.2	]	5			
IM7	Cloudy	Moderate	09:10	7.1	Middle	3.6	0.2	191	28.8	28.8	8.3	8.3	28.8	28.8	87.9	87.7	5.8	1.5	5.5	5.0	5	5	821354	806832
11017	Jioudy	Moderate	03.10	7.1	MIGGIG	3.6	0.2	184	28.8	20.0	8.3	0.0	28.8	20.0	87.4	07.7	5.8		5.7	3.0	4	3	JZ 1JJ+	000032
					Bottom	6.1	0.2	206	28.4	28.4	8.2	8.2	31.5	31.6	68.8	69.3	4.5	4.6	7.2	]	3			
					DOLLOITI	6.1	0.3	206	28.4	20.4	8.2	0.2	31.6	31.0	69.7	05.5	4.6	4.0	7.2		4			

DA: Depth-Averaged

Water Quality Monitoring Results on 20 September 22 during Mid-Ebb Tide

water Qua		orning recou			20 September 22	during mid																		
Monitoring	Weather	Sea	Sampling	Water	Complie - De-	h ()	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 Dept	n (m)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	HK Grid (Northing)	HK Grid (Easting)
					0 /	1.0	0.4	129	29.7		8.4		27.7		133.8	400 =	8.7		1.0		4			
					Surface	1.0	0.4	133	29.7	29.7	8.4	8.4	27.7	27.7	133.6	133.7	8.7	0.0	1.1		4			
IM10	Classida	Moderate	09:36	7.5	Middle	3.8	0.3	124	29.2	29.2	8.3	8.3	28.4	28.4	109.7	400.2	7.2	8.0	3.8	4.4	4	4	822230	809823
IIVITO	Cloudy	Moderate	09.30	7.5	ivildale	3.8	0.3	126	29.1	29.2	8.3	0.3	28.4	20.4	108.9	109.3	7.2		4.2	4.4	5	4	022230	009023
					Bottom	6.5	0.4	126	28.6	28.6	8.1	8.1	30.8	30.8	68.7	69.1	4.5	4.5	8.1		4			
					Dottom	6.5	0.5	127	28.6	20.0	8.1	0.1	30.8	30.0	69.4	03.1	4.5	4.5	8.3		5			
					Surface	1.0	0.4	101	29.7	29.7	8.4	8.4	27.3	27.3	137.8	137.5	9.0		1.1		4			
						1.0	0.4	95	29.7		8.4		27.3		137.2		9.0	8.1	1.2		3			
IM11	Cloudy	Moderate	09:30	6.7	Middle	3.4	0.4	87	29.2	29.2	8.4	8.4	28.1	28.1	108.7	108.4	7.1		4.4	5.1	3	3	821513	810549
	,					3.4	0.4	90	29.1		8.4		28.1		108.1		7.1		5.0		2			
					Bottom	5.7	0.4	108	28.6	28.6	8.2	8.2	30.5	30.5	68.1	68.6	4.5	4.5	9.4		3			
						5.7	0.4	102	28.6		8.2		30.5		69.0		4.5		9.4		2			
					Surface	1.0	0.5	114	29.7	29.7	8.5	8.5	26.4	26.4	135.6	135.5	8.9		0.7		3			
						1.0	0.5	112	29.7		8.5		26.4		135.3		8.9	7.5	0.7		3			
IM12	Cloudy	Moderate	09:24	8.0	Middle	4.0	0.5	93	29.2	29.2	8.3	8.3	28.5	28.5	91.8	91.8	6.0		3.5	3.8	4	4	821170	811518
						7.0	0.5 0.4	94	29.2 28.8		8.3		28.6		91.7		6.0 4.7		3.8 7.3		4			
					Bottom	7.0	0.4	124 129	28.8	28.8	8.1 8.2	8.1	30.1	30.0	71.6 71.9	71.8	4.7	4.7	7.3		5			
	] 					1.0	0.4	73	29.7		8.4		27.4				7.6		2.5		4			
					Surface	1.0	0.0	66	29.7	29.7	8.4	8.4	27.4	27.4	115.5 115.0	115.3	7.5		2.8		5			
						3.0	0.0	87	-		-		-		-		-	7.6	-		-			
SR1A	Cloudy	Moderate	08:57	5.9	Middle	3.0	0.0	84	-	-	<del>-</del> -	-	<u> </u>	-	-	-				4.5		4	819977	812658
						4.9	0.0	58	29.1		8.2		29.9		76.6		5.0		6.3		3			
					Bottom	4.9	0.0	50	29.1	29.1	8.2	8.2	29.9	29.9	76.7	76.7	5.0	5.0	6.4		4			
						1.0	0.4	36	29.5		8.3		27.4		109.1		7.2		1.5		3			
					Surface	1.0	0.4	33	29.5	29.5	8.3	8.3	27.4	27.4	108.9	109.0	7.1		1.5		4			
000	o		00.40			-	0.4	39	-		-		-		-		-	7.2	-		-			044470
SR2	Cloudy	Moderate	08:43	5.1	Middle	-	0.4	37	-	-	-	-	-	-	-	-	-		-	2.3	-	4	821443	814178
					Dattana	4.1	0.4	52	29.1	20.4	8.1	0.4	29.7	20.7	76.1	70.0	5.0	F 0	3.1		4			
					Bottom	4.1	0.3	55	29.1	29.1	8.1	8.1	29.7	29.7	76.2	76.2	5.0	5.0	3.1		4			
					Surface	1.0	0.5	159	29.8	29.8	8.4	8.4	26.5	26.6	131.9	131.7	8.7		2.1		4			
					Surface	1.0	0.6	160	29.8	29.6	8.4	0.4	26.7	20.0	131.5	131.7	8.6	8.0	2.2		4			
SR3	Cloudy	Moderate	09:03	8.6	Middle	4.3	0.5	143	29.6	29.6	8.4	8.4	27.8	27.8	112.8	112.3	7.4	0.0	4.5	5.8	3	4	822162	807573
ONO	Cloudy	Woderate	03.03	0.0	Middle	4.3	0.5	139	29.6	25.0	8.4	0.4	27.8	21.0	111.7	112.0	7.3		4.3	3.0	4	7	022102	00/3/3
					Bottom	7.6	0.5	141	28.3	28.3	8.2	8.2	31.9	31.9	64.0	64.4	4.2	4.2	10.9		3			
					Bottom	7.6	0.6	139	28.3	20.0	8.2	0.2	31.9	01.0	64.7	0	4.2		11.0		3			
				1	Surface	1.0	0.0	306	28.5	28.5	8.1	8.1	31.2	31.2	108.8	108.8	7.1		7.1		2			
						1.0	0.1	302	28.5		8.1	_	31.2		108.8		7.1	5.8	6.8		3			
SR4A	Cloudy	Moderate	10:12	10.9	Middle	5.5	0.0	327	28.4	28.4	8.1	8.1	31.6	31.6	67.2	67.2	4.4		5.6	7.5	3	4	817191	807814
						5.5	0.0	323	28.4		8.1		31.6		67.2		4.4		5.6		4			
					Bottom	9.9	0.0	299	28.3	28.3	8.0	8.0	31.7	31.7	58.9	58.9	3.9	3.9	10.1		5			
			<del>                                     </del>			9.9	0.0	294	28.3		8.0		31.7		58.9		3.9		9.9		4			
					Surface	1.0	-	-	30.1 30.1	30.1	8.4 8.4	8.4	27.8	27.8	111.0	110.6	7.2 7.1		2.2		4			
				1			-	-			8.4		27.8	<b> </b>			7.1	7.2			3			
SR8	Cloudy	Moderate	09:19	4.5	Middle	-	-	-	-	-	-	-	-	-	-	-	-		-	5.1	-	4	820371	811633
						3.5	-	-	29.8		8.4		27.9		83.3		5.4		7.9		5			
					Bottom	3.5	-	-	29.8	29.8	8.4	8.4	27.9	27.9	83.2	83.3	5.4	5.4	8.1		4			
			l	l .	ı	ა.ა			29.0		0.4		21.9	L	os.2		0.4		0.1		4			1

Water Quality Monitoring Results on 20 September 22 during Mid-Flood Tide

Water Quar		ornig ittoou			20 September 22	auming ima		40	1						DO 0	at wation	Diese	ام مريا			Cuananda	d Calida		
Monitoring	Weather	Sea	Sampling	Water	Sampling Dept	h (m)	Current Speed	Current	Water Te	emperature (°C)	pН		Salin	ity (ppt)		aturation (%)	Disso Oxy	gen	Turbidity	(NTU)	Suspende (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Campling Dept	()	(m/s)	Direction	Value	Average	Value Av	verage	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.1	49	28.5	28.5	8.1	8.1	31.3	31.3	102.8	102.8	6.7		5.7		6			
					Sunace	1.0	0.2	42	28.5	20.5	8.1	0.1	31.3	31.3	102.8	102.0	6.7	6.3	5.1		5			
C1	Doiny	Modorata	20:24	8.6	Middle	4.3	0.0	29	28.4	28.4	8.1	8.1	31.4	31.4	89.0	89.0	5.8	6.3	7.0	7.4	5	5	815614	804236
Ci	Rainy	Moderate	20.24	0.0	Middle	4.3	0.1	31	28.4	20.4	8.1	0.1	31.4	31.4	89.0	09.0	5.8		7.0	7.4	4	5	013014	004230
					Bottom	7.6	0.1	27	28.3	28.3	8.1	8.1	31.4	31.4	80.2	80.2	5.2	5.2	9.9		4			
					BULUIII	7.6	0.1	24	28.3	20.3	8.1	0.1	31.4	31.4	80.2	00.2	5.2	5.2	9.9		4			
					Surface	1.0	0.0	331	29.3	29.3	8.3	8.3	29.3	29.3	126.5	126.5	8.2		9.2		3			
					Sunace	1.0	0.1	332	29.3	29.5	8.3	0.5	29.4	29.5	126.5	120.5	8.2	7.3	9.4		3			
C2	Rainy	Moderate	21:32	11.0	Middle	5.5	-	333	29.0	29.0	8.2	8.2	29.8	29.8	98.6	98.6	6.4	7.5	8.8	9.5	4	4	825664	806960
02	rtairy	Woderate	21.02	11.0	Wilddie	5.5	0.0	328	29.0	20.0	8.2	0.2	29.9	20.0	98.6	00.0	6.4		8.4	0.0	3	-	020004	000000
					Bottom	10.0	0.0	316	28.8	28.8	8.2	8.2	30.5	30.5	77.4	77.4	5.1	5.1	10.5		4			
					Bottom	10.0	0.0	319	28.8	20.0	8.2	0.2		00.0	77.4		5.1	0	10.6		6			
					Surface	1.0	0.0	147	29.4	29.4	8.4	8.4	28.7	28.7	122.3	122.1	8.0		2.2		6			
						1.0	0.1	146	29.4		8.4		28.7	-	121.9		8.0	6.9	2.2		7			
C3	Cloudy	Moderate	21:21	10.3	Middle	5.2	0.0	144	28.7	28.7	8.2	8.2	31.1	31.2	89.7	89.3	5.8		3.2	3.8	5	5	822092	817825
	-					5.2	0.0	136	28.6		8.2				88.9		5.8		3.4		5			
					Bottom	9.3 9.3	0.0	178 181	28.4 28.4	28.4	8.2	8.2	31.8 31.8	31.8	74.9 74.7	74.8	4.9 4.9	4.9	5.8 6.0		<u>3</u>			
	] 					1.0	0.1	48	28.6		0.2		31.8		99.5		6.4		2.7		2			
					Surface	1.0	0.1	49	28.6	28.6	8.2	8.2	31.8	31.8	99.5	99.5	6.4		2.7		3			
						3.1	0.0	26	28.0		0.2		33.0		54.2		3.5	5.0	6.8		3			
IM1	Rainy	Moderate	20:43	6.1	Middle	3.1	0.1	33	28.0	28.0	8.2	8.2	33.0	33.0	54.3	54.3	3.5		7.0	8.4	3	3	818331	806457
						5.1	0.1	29	27.9		9.2				56.2		3.7		15.8		4			
					Bottom	5.1	0.0	30	27.9	27.9	8.2	8.2	33.4 33.4	33.4	56.3	56.3	3.7	3.7	15.4		3			
					0	1.0	0.1	32	28.6	00.0	9.2	0.0	32.1	00.4	90.5	00.5	5.9		2.7		4			
					Surface	1.0	0.1	28	28.6	28.6	8.2	8.2	32.2	32.1	90.5	90.5	5.9	5.3	2.8		3			
IM2	Rainy	Moderate	20:49	6.7	Middle	3.4	0.1	29	28.2	28.2	8.2	8.2	32.7 32.8	32.8	72.5	72.4	4.7	5.3	5.4	6.5	4	4	819164	806257
IIVIZ	Rainy	Moderate	20:49	6.7	Middle	3.4	0.1	22	28.2	28.2	8.2	8.2	32.8	32.8	72.3	72.4	4.7		5.9	6.5	4	4	819164	806257
					Bottom	5.7	0.1	8	27.8	27.8	8.2	8.2	33.5 33.5	33.5	56.8	57.1	3.7	3.7	11.1		4			
					Bottom	5.7	0.1	11	27.8	21.0	8.2	0.2	33.5	33.3	57.3	37.1	3.7	3.1	11.1		5			
					Surface	1.0	0.1	55	29.8	29.8	8.5	8.5	26.3	26.3	145.6	145.4	9.6		1.3		4			
					Curidoo	1.0	0.1	58	29.8	20.0	8.5	5.0	26.3	20.0	145.2	140.4	9.5	9.3	1.3		5			
IM7	Rainy	Moderate	21:09	7.8	Middle	3.9	0.1	30	29.7	29.7	8.5	8.5	26.5 26.4	26.5	136.2	135.9	9.0	0.0	3.2	3.6	5	4	821337	806817
	. tuniy	cabiato	200		ddic	3.9	0.1	34	29.7	25.7	8.5	0.0		20.0	135.5	.00.0	8.9		3.5	3.0	4	•	32.007	330017
					Bottom	6.8	0.1	37	29.6	29.6	8.3	8.3	28.2	28.2	118.7	118.8	7.7	7.7	6.1		4			
						6.8	0.1	31	29.6		8.3	-	28.2		118.9		7.7		6.5		4			

DA: Depth-Averaged

Water Quality Monitoring Results on 20 September 22 during Mid-Flood Tide

water Quar	,	orning recou			20 September 22	aarnig mia																		
Monitoring	Weather	Sea	Sampling	Water	Sampling Don	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)
					Curtoso	1.0	0.1	319	29.9	20.0	8.5	0.5	27.1	27.1	142.0	1/10	9.3		1.4		4			
					Surface	1.0	0.1	325	29.8	29.9	8.5	8.5	27.1	27.1	141.6	141.8	9.3	8.0	1.4	1	3			
IM10	Cloudy	Moderate	20:06	7.6	Middle	3.8	0.1	326	29.5	29.5	8.2	8.2	28.8	28.8	102.0	101.9	6.6	8.0	2.7	2.8	4	5	822220	809860
IIVITO	Cloudy	wouerate	20.00	0.1	iviidale	3.8	0.2	322	29.5	29.0	8.2	0.2	28.8	20.0	101.8	101.9	6.6		2.8	2.0	5	υ	022220	009000
					Bottom	6.6	0.1	301	29.4	29.4	8.2	8.2	29.2	29.2	90.7	91.0	5.9	5.9	4.4		5			
					Dottom	6.6	0.1	301	29.4	25.4	8.2	0.2	29.2	25.2	91.2	91.0	5.9	3.9	4.3		6			
					Surface	1.0	0.1	298	30.0	30.0	8.4	8.4	27.1	27.1	137.6	137.3	9.0		2.8		3			
					Curiaco	1.0	0.0	292	29.9	00.0	8.4	0.4	27.2	27.1	137.0	101.0	8.9	8.3	3.2		4			
IM11	Cloudy	Moderate	20:13	7.4	Middle	3.7	0.1	285	29.3	29.3	8.4	8.4	28.4	28.5	118.1	117.0	7.7	0.5	4.9	4.0	4	4	821481	810557
	Oloudy	Moderate	20.10	7	Wildaio	3.7	0.1	282	29.3	20.0	8.4	0.4	28.6	20.0	115.9	117.0	7.6		5.0	4.0	3	-	021401	010001
					Bottom	6.4	0.1	278	29.0	29.0	8.2	8.2	29.4	29.5	89.1	88.4	5.8	5.8	3.8		4			
					Bottom	6.4	0.1	271	29.0	20.0	8.2	0.2	29.5	20.0	87.7	00.1	5.7	0.0	4.1		5			
					Surface	1.0	0.1	288	29.7	29.7	8.4	8.4	27.7	27.7	132.3	129.7	8.6		2.0		6			
						1.0	0.1	289	29.7		8.4		27.8		127.1		8.3	7.6	2.1	1	5			
IM12	Cloudy	Moderate	20:20	8.0	Middle	4.0	0.2	297	29.2	29.2	8.3	8.3	29.1	29.2	102.0	101.3	6.7	l	4.6	5.5	5	5	821144	811505
	,					4.0	0.2	299	29.1		8.3		29.3	-	100.5		6.6		5.0		4			
					Bottom	7.0	0.1	274	28.7	28.7	8.1	8.1	30.6	30.6	71.3	71.6	4.7	4.7	9.5	Į.	4			
						7.0	0.1	267	28.7		8.1		30.6		71.8		4.7		9.7		3			
					Surface	1.0	0.0	173	29.6	29.6	8.4	8.4	27.6	27.6	132.4	132.4	8.7	ł	2.2	ł	4			
						1.0	0.1	166	29.6		8.4		27.6		132.3		8.7	8.7	2.3	ł	5			
SR1A	Cloudy	Moderate	20:47	5.5	Middle	2.8	0.0	186 188	-	-	-	-	-	-	-	-	-	ł	-	5.2	-	4	819975	812654
						4.5			1				_				7.0			ł				
					Bottom	4.5	0.0	202 201	29.5 29.5	29.5	8.3	8.3	28.5	28.6	107.3	107.2	7.0	7.0	8.1 8.3	ł	3			
			1			1.0	0.1	6	29.7		8.4		28.1		133.5		8.7	<u> </u>	1.8	<u> </u>	4			
					Surface	1.0	0.1	0	29.7	29.7	8.4	8.4	28.1	28.1	133.2	133.4	8.7	ł	1.0	ł	4			
						-	0.0	347	-		-		-		-		0.7	8.7	-		-			
SR2	Cloudy	Moderate	21:00	4.8	Middle	-	0.0	344	-	-	_	-	_	-	-	-	-	ł	_	4.0	_	4	821473	814185
					_	3.8	0.0	356	29.5		8.4		28.5		118.9		7.8		6.1		4			
					Bottom	3.8	0.0	354	29.5	29.5	8.4	8.4	28.5	28.5	118.5	118.7	7.7	7.8	6.3		5			
			1		· ·	1.0	0.0	10	29.7		8.5		26.4		139.7	400.4	9.2		1.2	Ì	4			
					Surface	1.0	0.0	12	29.6	29.7	8.5	8.5	26.4	26.4	139.1	139.4	9.2		1.3	1	3			
000	Delen	Mandanat	04.45	0.4	N.C. J.B.	4.2	0.1	33	29.4	00.4	8.3	0.0	28.4	00.5	110.7	440.7	7.2	8.2	2.0	١	4		000400	007500
SR3	Rainy	Moderate	21:17	8.4	Middle	4.2	0.1	33	29.4	29.4	8.3	8.3	28.5	28.5	110.7	110.7	7.2	1	2.0	2.1	4	4	822128	807562
					Bottom	7.4	0.0	35	29.2	29.2	8.2	8.2	29.8	29.8	87.2	87.2	5.7	5.7	3.2	]	4			
					DULLUIII	7.4	0.1	34	29.1	29.2	8.2	0.2	29.8	29.0	87.2	01.2	5.7	5.7	3.0		4			
					Surface	1.0	0.0	280	28.6	28.6	8.2	8.2	31.2	31.2	123.4	123.4	8.0		9.5		4			
					Juliace	1.0	0.0	276	28.6	20.0	8.2	0.2	31.2	31.2	123.4	123.4	8.0	6.5	9.4	]	3			
SR4A	Rainy	Moderate	20:06	8.9	Middle	4.5	0.0	289	28.4	28.4	8.2	8.2	31.2	31.2	75.6	75.6	4.9	0.0	12.1	11.9	4	4	817211	807790
011-71	ramy	Moderate	20.00	0.0	IVIIGGIO	4.5	0.0	290	28.4	20.7	8.2	0.2	31.2	01.2	75.6	70.0	4.9		11.7		4	-	317211	007700
					Bottom	7.9	0.0	284	28.3	28.3	8.1	8.1	31.2	31.2	67.3	67.3	4.4	4.4	14.3	1	4			
					500000	7.9	0.0	276	28.3		8.1	· · ·	31.2	V	67.3	00	4.4		14.4		5			
					Surface	1.0	-	-	30.0	30.0	8.4	8.4	27.1	27.1	130.5	130.5	8.5		2.9		5			
						1.0	-	-	30.0		8.4	<b>U.</b> .	27.1		130.5		8.5	8.5	2.9	1	4			
SR8	Cloudy	Moderate	20:26	4.1	Middle	-	-	-	-	-	-	_	-	_	-	-	-	0.0	-	6.4	-	4	820404	811631
27.0			-3.20			-	-	-	-		-		-		-		-		-		-	•		200.
					Bottom	3.1	-	-	29.6	29.6	8.3	8.3	27.3	27.3	111.8	111.2	7.3	7.3	9.8		3			
						3.1	-	-	29.6		8.3		27.3		110.6		7.3		9.9		4			

DA: Depth-Averaged

Water Quality Monitoring Results on

22 September 22 during Mid-Ebb Tide

Monitoring	Weather	Sea	Sampling	Water	Sampling Dept	-	Current Speed	Current	Water Te	mperature (°C)		pН	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 Dept	()	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.4	205	28.6	28.6	8.3	8.3	31.4	31.4	94.7	94.5	6.2		3.2		5			
					Ourlace	1.0	0.4	212	28.6	20.0	8.3	0.5	31.4	31.4			6.2	5.8	3.4		6			
C1	Cloudy	Moderate	10:43	8.2	Middle	4.1	0.4	217	28.3	28.3	8.3	8.3	32.0	32.0	80.6	80.6	5.3	0.0	5.0	6.3	3	4	815603	804268
01	Cioday	Woderate	10.40	0.2	wilddic	4.1	0.5	218	28.3	20.0	8.3	0.0	32.0	02.0	80.5		5.3		4.8	0.0	4	-	010000	00-12-00
					Bottom	7.2	0.4	223	28.4	28.4	8.3	8.3	32.4	32.4	79.8	80.0	5.2	5.2	10.8		3			
					Bottom	7.2	0.4	222	28.4	20.4	8.3	0.0	32.4	0Z	80.1		5.2	0.2	10.8		3			
					Surface	1.0	0.5	177	29.0	29.0	8.3	8.3	29.2	29.2	98.2 97.8	98.0	6.4		2.0		4			
					Gundoc	1.0	0.5	179	29.0	20.0	8.3	0.0	29.2	20.2			6.4	5.8	2.0		3			
C2	Cloudy	Moderate	12:10	10.6	Middle	5.3	0.5	161	28.5	28.5	8.2	8.2	30.4	30.4	77.9 77.7	77.8	5.1	5.0	12.2	8.7	4	4	825678	806959
02	Cioday	Woderate	12.10	10.0	wilddic	5.3	0.5	165	28.5	20.0	8.2	0.2	30.5	00.4			5.1		12.0	0.7	5	-	020070	000000
					Bottom	9.6	0.5	158	28.2	28.2	8.2	8.2	31.9	31.9	69.1 69.6	69.4	4.5	4.6	12.2		5			
					Bottom	9.6	0.5	164	28.2	20.2	8.2	0.2	31.9	01.0			4.6	4.0	12.1		5			
					Surface	1.0	0.3	83	27.9	27.9	8.2	8.2	28.5	28.5	90.3	90.1	6.0		1.2		5			
					Gundoc	1.0	0.3	79	27.9	27.0	8.2	0.2	28.5	20.0	89.9		6.0	5.7	1.2		5			
СЗ	Fine	Moderate	10:03	9.0	Middle	4.5	0.3	51	27.7	27.7	8.2	8.2	28.9	29.0	82.3 80.9	81.6	5.5	0.7	3.6	3.2	5	5	822106	817783
00	1 1110	Woderate	10.00	0.0	Middle	4.5	0.3	45	27.7	27.7	8.2	0.2	29.0	20.0		01.0	5.4		3.7	0.2	5	o	022100	017700
					Bottom	8.0	0.3	93	27.7	27.7	8.2	8.2	29.1	29.1	77.3	77.7	5.2	5.2	4.6		6			
					Bottom	8.0	0.3	98	27.7	27.7	8.2	0.2	29.1	20.1	78.1		5.2	0.2	4.8		6			
					Surface	1.0	0.3	199	28.5	28.5	8.2	8.2	31.4	31.4	86.1	86.1	5.6		4.0		4			
					Curidoc	1.0	0.3	199	28.5	20.0	8.2	0.2	31.4	01	86.0		5.6	5.4	4.0		4			
IM1	Cloudy	Moderate	11:01	6.9	Middle	3.5	0.4	208	28.3	28.3	8.2	8.2	31.4	31.4	79.6 79.5	79.6	5.2 5.2	0.4	4.9	6.5	4	5	818355	806440
	Cioday	Woderate	11.01	0.0	wilddic	3.5	0.4	211	28.3	20.0	8.2	0.2	31.4	01.4			5.2		4.9	0.0	4	Ü	010000	000110
					Bottom	5.9	0.4	194	28.3	28.3	8.2	8.2	31.9	31.9	69.9	70.0	4.6	4.6	10.6		5			
					26116111	5.9	0.4	189	28.3	20.0	8.2	0.2	31.9	01.0	70.1		4.6		10.7		6			
					Surface	1.0	0.5	207	28.4	28.4	8.2	8.2	31.3	31.3	88.0 87.8	87.9	5.8		3.9		4			
					Gundoc	1.0	0.5	202	28.4	20.4	8.2	0.2	31.3	01.0	87.8	07.0	5.7	5.5	3.9		5			
IM2	Cloudy	Moderate	11:10	7.4	Middle	3.7	0.5	196	28.4	28.4	8.2	8.2	31.3	31.3	81.8		5.3	0.0	4.1	7.8	5	5	819193	806221
11412	Cioday	Woderate	11.10	1	Middle	3.7	0.4	194	28.4	20.4	8.2	0.2	31.3	01.0	81.6		5.3		4.2	1.0	4	o	010100	000221
					Bottom	6.4	0.5	219	28.3	28.3	8.2	8.2	31.7	31.7	70.5	70.6	4.6	4.6	15.2		6			
					Bottom	6.4	0.4	222	28.3	20.5	8.2	0.2	31.7	31.7	70.7	70.0	4.6	4.0	15.4		7			
					Surface	1.0	0.3	192	28.6	28.6	8.3	8.3	30.1	30.1	93.1	93.1	6.1		3.3		5			
					Guilace	1.0	0.3	196	28.6	20.0	8.3	0.0	30.1	30.1	93.1	33.1	6.1	5.9	3.3	]	5			
IM7	Cloudy	Moderate	11:39	8.3	Middle	4.2	0.3	221	28.3	28.3	8.2	8.2	30.6	30.6	84.7	84.6	5.6	5.5	5.5	5.8	4	5	821329	806816
11717	Oloudy	Moderate	11.55	0.5	Middle	4.2	0.3	214	28.3	20.0	8.2	0.2	30.7	30.0	84.5		5.6		5.7	3.0	5	3	021029	000010
					Bottom	7.3	0.2	225	28.3	28.3	8.2	8.2	31.4	31.4	75.5	75.6	4.9	5.0	8.6	]	5			
					DOLLOITI	7.3	0.2	218	28.3	20.5	8.2	0.2	31.4	31.4	75.6	13.0	5.0	3.0	8.5		4			

DA: Depth-Averaged

Water Quality Monitoring Results on

22 September 22 during Mid-Ebb Tide

water Quai	ity worm	orning inesu	its on		22 September 22	during wild-		:																
Monitoring	Weather	Sea	Sampling	Water	Complies Dant	h (m)	Current Speed	Current	Water Te	emperature (°C)		рН	Salin	ity (ppt)		aturation (%)	Disso Oxy		Turbidity	(NTU)	Suspend (mg		Coordinate HK Grid	Coordinate
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)	HK Grid (Easting)
		-			Surface	1.0	0.4	137	28.0	28.0	8.2	8.2	28.0	28.1	89.2	88.6	6.0		7.0		6			
					Sunace	1.0	0.4	140	28.0	20.0	8.2	0.2	28.1	20.1	88.0	00.0	5.9	5.8	7.0	] ]	5			
IM10	Fine	Moderate	11:16	8.2	Middle	4.1	0.4	123	27.9	27.9	8.2	8.2	28.2	28.3	83.2	83.2	5.6	3.0	8.8	8.3	6	6	822260	809852
110110	1 1110	Woderate	11.10	0.2	Wilddle	4.1	0.4	119	27.9	21.5	8.2	0.2	28.3	20.5	83.1	05.2	5.6		8.9	0.5	7	O	022200	003032
					Bottom	7.2	0.4	136	27.9	27.9	8.2	8.2	28.2	28.1	87.1	88.6	5.8	6.0	9.0		7			
					Bottom	7.2	0.3	129	27.9	20	8.2	0.2	28.0		90.1	00.0	6.1	0.0	9.0		7			
					Surface	1.0	0.4	105	28.1	28.1	8.2	8.2	28.0	28.0	92.5	90.6	6.2		4.6		6			
						1.0	0.4	102	28.1		8.2		28.0		88.6		5.9	6.0	4.6		5			
IM11	Fine	Moderate	11:09	9.0	Middle	4.5	0.4	106	27.9	27.9	8.2	8.2	28.3	28.3	87.9	87.9	5.9		5.1	5.2	6	6	821515	810537
						4.5	0.4	98	27.9		8.2		28.3		87.9		5.9		5.0		6			
					Bottom	8.0	0.4	87	27.6	27.6	8.2	8.2	28.4	28.5	91.6	94.1	6.2	6.4	5.8		7			
						8.0	0.4	80	27.6		8.2		28.5		96.6		6.5		5.9		6			
					Surface	1.0	0.5	98	28.1	28.1	8.2	8.2	27.8	27.8	92.9	92.8	6.2		4.3		3			
						1.0	0.5	99	28.1		8.2		27.8		92.7		6.2	6.2	4.3		4			
IM12	Fine	Moderate	11:03	8.4	Middle	4.2	0.5	91	27.9	27.9	8.2	8.2	28.1	28.1	92.3	92.3	6.2		4.9	5.3	5	4	821175	811510
						4.2	0.5	87	27.8		8.2		28.2		92.2		6.2		5.0		4			
					Bottom	7.4	0.5	121	27.5	27.5	8.2	8.2	28.4	28.4	95.6	96.4	6.4	6.5	6.7		5			
					<u> </u>	7.4	0.5	117	27.5		8.2		28.4		97.1		6.6		6.7		5			
					Surface	1.0	0.1	93	27.8	27.8	8.2	8.2	28.3	28.3	86.8	86.9	5.8		7.3		4			
						1.0	0.1	86	27.7		8.2		28.3		87.0		5.9	5.9	7.4		3			
SR1A	Fine	Moderate	10:40	4.6	Middle	2.3	0.1	87	-	-	-	_	-	-	-	-	-		-	7.7	-	4	819975	812664
						2.3	0.0	87	-		-		-		-		-		-		-			
					Bottom	3.6	-	107	27.4	27.4	8.2	8.2	28.5	28.5	92.0	92.7	6.2	6.3	8.1		5			
					<u> </u>	3.6	0.0	106	27.4		8.2		28.5		93.3		6.3		8.2		5			
					Surface	1.0	0.4	34	28.2	28.2	8.2	8.2	27.8	27.8	90.6	90.7	6.1		2.4		4			
						1.0	0.4	27	28.2		8.2		27.8		90.7		6.1	6.1	2.4		4			
SR2	Fine	Moderate	10:26	5.0	Middle	-	0.5	38	-	-	-	_	-	-	-	-	-		-	2.8	-	5	821458	814144
-						-	0.4	36	-		-		-		-		-		-		-			
					Bottom	4.0	0.5	31	27.3	27.3	8.3	8.3	28.5	28.5	99.6	99.6	6.7	6.7	3.1		6			
						4.0	0.5	37	27.3		8.3		28.5		99.6		6.7		3.1		5			
					Surface	1.0	0.4	170	28.7	28.7	8.2	8.2	29.7	29.7	90.2	90.2	5.9		4.1		6			
						1.0	0.4	174	28.7		8.2		29.7		90.1		5.9	5.6	4.1		5			
SR3	Cloudy	Moderate	11:47	8.5	Middle	4.3	0.4	169	28.3	28.3	8.2	8.2	30.6	30.6	79.8	79.7	5.2		5.8	6.8	5	5	822125	807582
	,					4.3	0.5	163	28.3		8.2		30.6		79.5		5.2		6.1		4			
					Bottom	7.5	0.5	179	28.2	28.2	8.2	8.2	31.3	31.3	78.1	78.2	5.1	5.1	10.2		4			
						7.5	0.4	172	28.2		8.2		31.3		78.3		5.1		10.7		4			
					Surface	1.0	0.0	79	28.6	28.6	8.1	8.1	31.5	31.5	82.5	82.5	5.4		6.2		5			
						1.0	0.0	78	28.6		8.1		31.5		82.4		5.4	5.1	6.2		6			
SR4A	Cloudy	Moderate	10:26	8.8	Middle	4.4	0.0	87	28.4	28.4	8.1	8.1	31.9	31.9	73.5	73.5	4.8		8.4	8.9	5	5	817207	807813
						4.4	-	80	28.4		8.1		31.9		73.5		4.8		8.5		5			
					Bottom	7.8	0.0	72	28.4	28.4	8.0	8.0	32.1	32.1	68.5	68.6	4.5	4.5	12.1		4			
			<del>                                     </del>	<u> </u>	1	7.8	0.1	68	28.4		8.0		32.1		68.6		4.5		12.0	<del>                                     </del>	4			<u> </u>
					Surface	1.0	-	-	28.0	28.0	8.2	8.2	28.1	28.2	86.8	87.0	5.8		5.9		13			
						1.0	-	-	27.9		8.2		28.2		87.1		5.8	5.8	6.0		13			
SR8	Fine	Moderate	10:58	5.8	Middle	-	-	-	-	-	-	-		-		-	-		-	6.2	-	12	820374	811608
						-	-	-	-		-		-		-		-		-		-			
					Bottom	4.8	-	-	27.5	27.5	8.2	8.2	28.4	28.4	91.9	92.5	6.2	6.3	6.5		11			
DA: Denth-Aver					l	4.8	-	-	27.5		8.2		28.4		93.0		6.3		6.5		10			

DA: Depth-Averaged

Water Quality Monitoring Results on 22 September 22 during Mid-Flood Tide

Water Qua	ity worm	ornig itesa	113 011		ZZ September ZZ	during mid-		uc																
Monitoring	Weather	Sea	Sampling	Water	Sampling Dept	th (m)	Current Speed	Current	Water Te	emperature (°C)		pН	Salir	nity (ppt)	DO S	Saturation (%)	Disso Oxy		Turbidity	y(NTU)	Suspend (mg		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Gampling Dept	ur (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	33	28.7	28.7	8.3	8.3	30.7	30.7	89.9	89.8	5.9		11.0		5			
					Surface	1.0	0.2	34	28.7	20.7	8.3	0.3	30.7	30.7	89.7	09.0	5.9	5.4	11.0		4			
C1	Rainy	Moderate	17:47	8.0	Middle	4.0	0.2	42	28.4	28.4	8.2	8.2	31.4	31.4	75.5	75.4	4.9	5.4	10.6	11.0	4	4	815643	804256
Ci	Railly	Woderate	17.47	6.0	Middle	4.0	0.3	41	28.4	20.4	8.2	0.2	31.4	31.4	75.3	73.4	4.9		10.5	11.0	5	4	013043	004230
					Bottom	7.0	0.2	25	28.3	28.3	8.2	8.2	31.6	31.6	73.3 73.8	73.6	4.8	4.8	11.3		4			
					DOLLOITI	7.0	0.3	29	28.3	20.3	8.2	0.2	31.6	31.0	73.8	73.0	4.8	4.0	11.5		3			
					Surface	1.0	0.1	185	29.5	29.5	8.4	8.4	27.4	27.4	113.6		7.5		2.7		4			
					Sunace	1.0	0.1	189	29.5	29.5	8.4	0.4	27.4	21.4	113.5	113.0	7.5	6.3	2.7		4			
C2	Rainy	Moderate	16:36	11.6	Middle	5.8	0.1	165	28.6	28.6	8.3	8.3	30.2	30.3	76.1	76.1	5.0	0.5	6.8	7.5	4	4	825679	806944
OZ.	ixality	Moderate	10.50	11.0	Middle	5.8	0.2	166	28.6	20.0	8.3	0.5	30.3	50.5	76.0	70.1	5.0		6.9	7.5	4	7	023073	000344
					Bottom	10.6	0.1	204	28.5	28.5	8.3	8.3	30.8	30.8	73.5	73.8	4.8	4.9	13.5		4			
					20110111	10.6	0.0	209	28.5	20.0	8.3	0.0	30.8	00.0	74.1	. 0.0	4.9		12.6		4			
					Surface	1.0	0.3	264	28.0	28.0	8.2	8.2	28.8	28.8	87.2 86.0	86.6	5.8		2.9		9			
						1.0	0.3	266	28.0		8.2		28.9				5.7	5.5	2.9		8			
C3	Fine	Moderate	17:47	9.6	Middle	4.8	0.3	245	27.8	27.8	8.2	8.2	29.2	29.2	79.3	79.4	5.3		3.0	3.6	8	8	822129	817800
						4.8	0.3	243	27.8		8.2		29.3		79.4		5.3		3.0	4	7			
					Bottom	8.6	0.3	264	27.8	27.9	8.2	8.2	29.4	29.3	84.9 86.8	85.9	5.7	5.8	5.0	_	7			
						8.6	0.3	270	27.9				29.3				5.8		5.0	1	6			
					Surface	1.0	0.1	19 17	28.7 28.7	28.7	8.2	8.2	31.4	31.4	81.4 81.4	81.4	5.3 5.3		8.2 8.6	4	6			
						3.3	0.2	29	28.6		8.2		31.4		81.2		5.3	5.3	12.3		6			
IM1	Rainy	Moderate	17:33	6.5	Middle	3.3	0.1	29	28.6	28.6	8.2	8.2	31.4	31.4	81.1	81.2	5.3		12.3	12.3	6	6	818346	806464
						5.5	0.2	35	28.6		8.2		31.4		79.3		5.2		16.2	-	6			
					Bottom	5.5	0.1	40	28.6	28.6	8.2	8.2	31.4	31.4	79.2	79.3	5.2	5.2	16.3		4			
						1.0	0.1	352	28.8		8.3		31.1				5.6		9.8		3			
					Surface	1.0	0.1	344	28.8	28.8	8.3	8.3	31.1	31.1	85.4 85.1	85.3	5.5		9.9		4			
18.40	Delen	Madazi	47.05	0.7	NAC-JUIL-	3.4	0.1	5	28.3	00.0	8.2	0.0	31.6	04.0	71.3	74.4	4.7	5.1	11.1	40.0	5	-	040404	000044
IM2	Rainy	Moderate	17:25	6.7	Middle	3.4	0.1	5	28.3	28.3	8.2	8.2	31.6	31.6	70.9	71.1	4.6		11.3	12.2	4	5	819191	806214
					Dettern	5.7	0.1	341	28.3	28.3	8.2	8.2	31.8	31.8	65.8	65.9	4.3	4.3	15.1		7			
					Bottom	5.7	0.1	344	28.3	28.3	8.2	8.2	31.8	31.8	66.0	65.9	4.3	4.3	15.8		6			
					Surface	1.0	0.2	265	29.0	29.0	8.3 8.3	8.3	29.3	29.3	99.4 99.2	99.3	6.5		3.2		4			
					Sunace	1.0	0.2	264	29.0	29.0	8.3	0.3	29.4	29.3	99.2	99.3	6.5	6.3	3.5		4			
IM7	Rainy	Moderate	16:55	8.4	Middle	4.2	0.1	282	28.7	28.7	8.3	8.3	30.0	30.0	91.8	91.9	6.0	0.5	8.4	6.9	4	4	821356	806816
IIVI /	ixaiiiy	wouchale	10.55	0.4	Milutio	4.2	0.1	287	28.7	20.1	8.3	0.5	30.0	30.0	91.9	31.3	6.0		8.5	0.9	5	4	021330	000010
					Bottom	7.4	0.1	285	28.7	28.7	8.3	8.3	30.0	30.0	92.7 92.9	92.8	6.1	6.1	8.9	1	5			
					Bottom	7.4	0.2	278	28.7	20.7	8.3	5.5	30.0	50.0	92.9	52.0	6.1	5.	9.0		4			

DA: Depth-Averaged

Water Quality Monitoring Results on

22 September 22 during Mid-Flood Tide

Monitoring	Weather	Sea	Sampling	Water	Sampling Dept	h (m)	Current Speed	Current	Water Te	mperature (°C)	ı	рН	Salin	nity (ppt)	DO	Saturation (%)	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	0.2	269	28.3	28.3	8.5	8.5	27.8	27.8	94.8		6.3		4.1		4			
						1.0	0.2	261	28.3		8.5		27.8		93.8		6.3	6.1	4.1	ļ	4			
IM10	Fine	Moderate	16:38	8.4	Middle	4.2	0.2	262	28.2	28.2	8.5	8.5	28.0	28.0	88.3	88.3	5.9		5.2	5.3	5	4	822226	809826
						4.2	0.2	257	28.2		8.5		28.0		88.3		5.9		5.2	ł	4			
					Bottom	7.4	0.1	260	28.2	28.2	8.5 8.5	8.5	28.1	28.0	94.3 95.6		6.3	6.4	6.7	ł	4			
						7.4 1.0	0.1	257 280	28.2 28.5		8.4		27.7		99.1		6.6		6.7 4.0		5 5			
					Surface	1.0	0.3	283	28.5	28.5	8.4	8.4	27.7	27.7	98.7	98.9	6.6		4.0	ł	6			
						4.0	0.3	284	28.4		8.4		27.8		93.6		6.2	6.4	5.2		7			
IM11	Fine	Moderate	16:43	8.0	Middle	4.0	0.3	291	28.3	28.4	8.4	8.4	27.9	27.9	92.9	93.3	6.2		5.2	5.2	6	6	821521	810544
						7.0	0.3	272	28.3		8.5		28.0		94.1		6.3		6.4	1	6			
					Bottom	7.0	0.3	267	28.3	28.3	8.5	8.5	28.0	28.0	99.1	96.6	6.6	6.5	6.5		7			
						1.0	0.3	297	28.3		8.3		27.9		95.3		6.4		6.4		6			
					Surface	1.0	0.2	295	28.3	28.3	8.3	8.3	27.9	27.9	92.1	93.7	6.1	0.0	6.4		7			
11140	F	Madanta	40.50	7.0	N 41:4:41 -	3.6	0.3	268	28.3	00.0	8.3	0.0	28.0	00.4	91.3	04.0	6.1	6.2	7.6	٦,	6		004470	044540
IM12	Fine	Moderate	16:50	7.2	Middle	3.6	0.3	263	28.3	28.3	8.3	8.3	28.1	28.1	91.1	91.2	6.1		7.5	7.4	6	6	821176	811512
					Bottom	6.2	0.3	300	28.3	28.3	8.3	8.3	28.2	28.1	92.5	94.8	6.2	6.4	8.1	1	5			
					BOLLOITI	6.2	0.3	299	28.3	20.3	8.3	0.3	28.1	20.1	97.0	94.0	6.5	0.4	8.1		6			
					Surface	1.0	0.0	199	28.5	28.5	8.3	8.3	28.0	28.0	90.9		6.1		8.4		11			
					Curiuoc	1.0	0.1	205	28.5	20.0	8.3	0.0	28.0	20.0	90.8	50.5	6.0	6.1	8.5		11			
SR1A	Fine	Moderate	17:12	4.2	Middle	2.1	0.0	195	-	-	-	-	-	_	-	_	-	0	-	8.9	-	9	819975	812666
						2.1	0.1	200	-		-		-		-		-		-		-	-		
					Bottom	3.2	0.0	166	28.4	28.4	8.3	8.3	28.0	28.0	90.6		6.0	6.0	9.4	Į.	6			
						3.2	-	161	28.4		8.3		28.0		90.5	_	6.0		9.3		6			
					Surface	1.0	0.1	239	28.1	28.1	8.3	8.3	28.1	28.1	91.2		6.1		6.9	ł	10			
						1.0	0.1	236 224	28.1		8.3		28.1		91.2		6.1	6.1	7.0		10			
SR2	Fine	Moderate	17:25	5.8	Middle	-	0.1	224	-	-	-	-	-	-	-	-	-		-	7.4		9	821451	814169
						4.8	0.1	225	28.0		8.3		28.2		94.2		6.3		7.8		9			
					Bottom	4.8	0.0	221	28.0	28.0	8.3	8.3	28.0	28.1	96.0	95.1	6.4	6.4	7.9	ł	8			
						1.0	0.1	234	29.1		8.3		28.6		105.3		6.9		2.0		6			
					Surface	1.0	0.1	238	29.1	29.1	8.3	8.3	28.6	28.6	105.1	1052	6.9		2.1	i	5			
000	Delen	Madanta	40.54	0.4	N 41:4:41 -	4.2	0.1	232	28.7	00.7	8.2	0.0	29.9	00.0	88.3	07.0	5.8	6.3	4.9	4.7	6		000450	007504
SR3	Rainy	Moderate	16:51	8.4	Middle	4.2	0.1	236	28.7	28.7	8.2	8.2	30.0	29.9	87.4	87.9	5.7		5.2	4.7	6	6	822150	807591
					Bottom	7.4	0.0	234	28.6	28.6	8.2	8.2	30.3	30.3	82.0		5.4	5.4	7.0		7			
					Dottom	7.4	0.0	232	28.6	20.0	8.2	0.2	30.3	30.3	82.0	02.0	5.4	J. <del>4</del>	7.2		6			
					Surface	1.0	0.1	174	28.9	28.9	8.2	8.2	30.7	30.7	90.9		5.9		13.0		4			
						1.0	0.1	170	28.9	20.0	8.2		30.7		90.8	00.0	5.9	5.9	13.2		4			
SR4A	Rainy	Moderate	18:03	9.2	Middle	4.6	0.0	203	28.8	28.8	8.2	8.2	30.8	30.8	88.7	88.7	5.8		12.7	13.8	4	4	817196	807803
						4.6	0.0	205	28.8		8.2		30.8		88.7	1	5.8		12.8		4			
					Bottom	8.2 8.2	0.0	185	28.8	28.8	8.2	8.2	30.8	30.8	88.7	88.7	5.8	5.8	15.6	l	5			
			<u> </u>	<u> </u>		1.0	0.1	178	28.8					1			5.8		15.3	<u> </u>	8			
					Surface	1.0	-	-	28.6	28.6	8.3	8.3	27.7	27.7	98.7 98.6	98.7	6.6		4.2 4.2		8			
						1.0	-	-	- 28.6		8.3		-	1	98.6	1	- 0.0	6.6	4.2	1	- 8			
SR8	Fine	Moderate	16:55	5.4	Middle	-	-	-	-	-	-	-	-	1 -	-		-		-	4.6	-	7	820372	811634
						4.4	-	-	28.5		8.3		27.8		98.9		6.6		5.1		7			
					Bottom	4.4	_	-		28.5	8.3	8.3	27.7	27.8	99.4		6.6	6.6	5.1		6			
DA: Dooth Avo					20110111	4.4	-	-	28.5		8.3	0.0	27.7		99.4	00.2	6.6	0.0	5.1		6			<u> </u>

DA: Depth-Averaged

Water Quality Monitoring Results on 24

24 September 22 during Mid-Ebb Tide

water Qual	ity wonit	oring Kesu	ILS UII		24 September 22	during wild-	EDD TIGE	;																
Monitoring	Weather	Sea	Sampling	Water	Sampling Dept	h (m)	Current Speed	Current	Water Te	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 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	215	28.8	28.8	8.3	8.3	31.4	31.5	92.3	92.3	6.0		4.4		4			
					Surface	1.0	0.5	216	28.8	20.0	8.3	0.3	31.5	31.3	92.2	92.3	6.0	5.7	4.4		3			
C1	Cloudy	Moderate	12:30	8.1	Middle	4.1	0.5	204	28.3	28.3	8.3	8.3	32.5	32.5	83.5		5.4	5.7	7.3	7.4	4	4	815596	804241
Ci	Cloudy	Wioderate	12.30	0.1	Middle	4.1	0.5	201	28.3	20.3	8.3	0.5	32.6	32.3	83.2	03.4	5.4		7.8	7.4	5	4	013390	004241
					Bottom	7.1	0.5	197	28.2	28.2	8.3	8.3	33.1	33.1	83.2 83.3	83.3	5.4	5.4	10.3		4			
					Dottom	7.1	0.5	198	28.2	20.2	8.3	0.0	33.1	55.1	83.3	00.0	5.4	5.7	10.0		5			
					Surface	1.0	0.4	161	28.9	28.9	8.2	8.2	28.7	28.7	90.2	90.2	5.9		2.0		10			
					Gundec	1.0	0.5	154	28.9	20.0	8.2	0.2	28.7	20.7	90.2	00.2	5.9	5.7	2.0		9			
C2	Cloudy	Moderate	13:53	11.2	Middle	5.6	0.5	169	28.8	28.8	8.2	8.2	29.0	29.0	83.9	84.0	5.5	0.7	10.5	7.9	7	8	825687	806941
02	Cioday	moderate	10.00		madio	5.6	0.5	174	28.8	20.0	8.2	0.2	29.0	20.0	84.0		5.5		10.5		8	Ŭ	02000.	0000
					Bottom	10.2	0.4	165	28.6	28.6	8.2	8.2	29.9	29.9	77.5	77.5	5.1	5.1	11.1		7			
					=	10.2	0.4	159	28.6		8.2		29.9		77.4		5.1		11.6		8			
					Surface	1.0	0.4	87	27.8	27.8	8.4	8.4	28.7	28.8	79.4	79.0	5.3		6.2		7			
						1.0	0.4	84	27.8		8.4		28.8		78.6		5.3	5.0	6.1		6			
C3	Fine	Moderate	11:11	9.8	Middle	4.9	0.3	94	27.6	27.6	8.5 8.5	8.5	29.3	29.4	69.3 69.2	69.3	4.6		8.0	7.4	5	5	822106	817825
						4.9	0.4	100	27.6				29.4				4.6		8.0		5	-		
					Bottom	8.8	0.4	79	27.6	27.6	8.5 8.5	8.5	29.4	29.4	69.9 70.2	70.1	4.7	4.7	8.2		5			
						8.8	0.4	83	27.6				29.4				4.7		8.2		4			
					Surface	1.0	0.3	180 174	28.8 28.8	28.8	8.2 8.2	8.2	31.9 31.9	31.9	84.6 84.6	84.6	5.5 5.5		5.2 5.2		5			
						3.3	0.3	207							_		5.5	5.4						
IM1	Cloudy	Moderate	12:50	6.6	Middle	3.3	0.4	207	28.4 28.4	28.4	8.2 8.2	8.2	32.0 32.0	32.0	80.3	80.3	5.2 5.2		6.1	8.0	5 4	5	818370	806436
						5.6	0.4	177	28.2		8.2		32.8		80.7		5.2		12.5		6			
					Bottom	5.6	0.4	170	28.2	28.2	8.2	8.2	32.8	32.8	80.7	80.7	5.2	5.2	12.7		6			
						1.0	0.4	203	28.8		8.2		31.4		83.4		5.4		5.4		4			
					Surface	1.0	0.5	198	28.8	28.8	8.2	8.2	31.4	31.4	83.3	83.4	5.4		5.4		4			
						3.7	0.4	193	28.4				31.9					5.3	9.4		4			
IM2	Cloudy	Moderate	12:56	7.4	Middle	3.7	0.4	189	28.4	28.4	8.2	8.2	31.9	31.9	79.6 79.5	79.6	5.2 5.2		9.5	10.3	5	5	819199	806236
						6.4	0.4	204	28.3		8.2		32.5		77.8		5.1		16.2		5			
					Bottom	6.4	0.4	207	28.3	28.3	8.2	8.2	32.5	32.5	78.0	77.9	5.1	5.1	16.2		5			
					0 /	1.0	0.3	210	28.9	00.0	8.2		29.3		92.1		6.0		4.1		6			
					Surface	1.0	0.3	213	28.9	28.9	8.2	8.2	29.3	29.3	92.1	92.1	6.0	F 0	4.1	1	5			
1847	Claudi	Madagat-	42.20	7.0	NA: dalla	4.0	0.3	195	28.7	20.7		0.0	30.0	20.4			5.7	5.8	6.1	7.0	5	_	004004	000007
IM7	Cloudy	Moderate	13:20	7.9	Middle	4.0	0.3	199	28.7	28.7	8.2	8.2	30.1	30.1	86.3 86.2	86.3	5.7 5.6		6.2	7.0	4	5	821334	806837
					Dottom	6.9	0.3	201	28.3	28.3	8.3	8.3	31.7	21.7	82.0		5.4	E 1	10.8		4			
					Bottom	6.9	0.3	207	28.3	∠8.3	8.3	ö.3	31.7	31.7	82.3	82.2	5.4	5.4	11.0	<u> </u>	4			
A. Donth Avor							•										•				•			

DA: Depth-Averaged

Water Quality Monitoring Results on

24 September 22 during Mid-Ebb Tide

Water Quar		ornig ittoca			24 September 22	aaring iiia		•																
Monitoring	Weather	Sea	Sampling	Water	Sampling Dest	h (m)	Current Speed	Current	Water Te	emperature (°C)		рН	Salir	nity (ppt)		aturation (%)	Disso Oxy		Turbidity	(NTU)	Suspende (mg/		Coordinate	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	HK Grid (Northing)	(Easting)
					0.4	1.0	0.4	106	28.2	20.0	8.3		27.9		87.6	07.0	5.9		4.4		7			
					Surface	1.0	0.4	105	28.1	28.2	8.3	8.3	28.1	28.0	86.7	87.2	5.8		4.4		7			
						4.1	0.4	119	28.0		8.2		28.5		80.7		5.4	5.6	5.2		6			
IM10	Fine	Moderate	12:30	8.2	Middle	4.1	0.4	120	27.9	28.0	8.2	8.2	28.6	28.5	80.9	80.8	5.4		5.2	5.4	7	6	822231	809834
						7.2	0.5	116	27.7		8.2		28.8		84.0		5.6		6.6		5			
					Bottom	7.2	0.5	112	27.6	27.7	8.3	8.2	28.8	28.8	89.9	87.0	6.0	5.8	6.6		6			
						1.0	0.5	98	28.2		8.2		27.7		84.6		5.7		7.2		10			
					Surface	1.0	0.5	92	28.2	28.2	8.2	8.2	27.8	27.7	84.3	84.5	5.6		7.1		9			
						4.5	0.5	82	28.1		8.2		27.9		83.8		5.6	5.6	8.5		7			
IM11	Fine	Moderate	12:18	9.0	Middle	4.5	0.6	77	28.1	28.1	8.2	8.2	27.9	27.9	83.7	83.8	5.6		8.4	8.2	8	8	821485	810540
						8.0	0.5	83	28.1		8.2		27.9		88.5		5.9		9.0		6			
					Bottom	8.0	0.5	83	28.1	28.1	8.2	8.2	27.9	27.9	90.0	89.3	6.0	6.0	9.0		7			
						1.0	0.5	108					_						6.6		6			
					Surface	1.0	0.5		28.1	28.1	8.2	8.2	28.1	28.1	78.4 78.2	78.3	5.2 5.2				6			
								104	28.1									5.2	6.6					
IM12	Fine	Moderate	12:11	8.8	Middle	4.4	0.5	117	28.0	28.0	8.2	8.2	28.3	28.3	78.4	78.6	5.2		7.2	7.2	6	6	821155	811527
						4.4	0.5	120	28.0		8.2		28.3		78.8		5.3		7.1		7			
					Bottom	7.8	0.5	96	28.0	28.0	8.2	8.2	28.3	28.3	81.9	84.1	5.5	5.7	8.0		7			
						7.8	0.5	100	28.0		8.2		28.3		86.2		5.8		8.1		6			
					Surface	1.0	0.0	63	28.2	28.2	8.2	8.2	28.0	28.0	85.0	85.0	5.7		5.9		8			
						1.0	0.0	62	28.2		8.2		28.0		84.9		5.7	5.7	5.8		8			
SR1A	Fine	Moderate	11:49	5.6	Middle	2.8	-	51	-	_	-	_	-	_	-		-		-	6.3	-	8	819979	812659
0	0	moderate		0.0	Middle	2.8	0.1	44	-		-		-		-		-		-	0.0	-	ŭ	0.00.0	0.2000
					Bottom	4.6	0.0	56	28.2	28.2	8.2	8.2	28.0	28.0	85.8	86.9	5.7	5.8	6.7		8			
					Bottom	4.6	0.0	49	28.2	20.2	8.2	0.2	28.0	20.0	87.9	00.5	5.9	5.0	6.8		7			
					Surface	1.0	0.4	50	28.1	28.1	8.4	8.4	27.9	27.9	85.3	85.4	5.7		7.2		12			
					Surface	1.0	0.4	49	28.1	20.1	8.4	0.4	28.0	21.5	85.4	00.4	5.7	5.7	7.2		12			
SR2	Fine	Moderate	11:35	5.6	Middle	-	0.4	51	-	-	-		-		-	_	-	3.7	-	7.7	-	10	821462	814186
SINZ	1 1116	Moderate	11.55	3.0	Middle	-	0.4	54	-	-	-	] -	-	]	-	]	-	,	-	1.1	-	10	021402	014100
					Pattom	4.6	0.4	50	28.5	28.6	8.4	8.4	27.9	27.8	86.9	87.4	5.8	5.8	8.2		8			
					Bottom	4.6	0.5	50	28.7	20.0	8.4	0.4	27.8	21.0	87.9	07.4	5.8	5.6	8.2		7			
					Curtons	1.0	0.4	181	28.8	20.0	8.2	8.2	29.5	20.5	90.0	00.0	5.9		6.7		5			
					Surface	1.0	0.5	175	28.7	28.8	8.2	8.2	29.5	29.5	89.9	90.0	5.9	5.7	6.7		6			
000	01	Madanta	40.00	0.0	N 41 - 1 - 11 -	4.4	0.4	169	28.5	00.5	8.2	0.0	30.3	00.0	82.6	00.0	5.4	5.7	9.3		5	_	000470	007574
SR3	Cloudy	Moderate	13:30	8.8	Middle	4.4	0.4	174	28.5	28.5	8.2	8.2	30.4	30.3	82.5	82.6	5.4		10.0	9.4	4	5	822170	807571
					5	7.8	0.5	169	28.4	20.4	8.2		30.8		84.2		5.5		11.9		4			
					Bottom	7.8	0.5	165	28.4	28.4	8.2	8.2	30.8	30.8	84.5	84.4	5.5	5.5	11.8		5			
						1.0	0.1	89	28.7		8.5		31.9		82.3		5.3		7.2		4			
				1	Surface	1.0	0.1	87	28.6	28.7	8.5	8.5	32.0	31.9	82.2	82.3	5.3		7.4	1	4			
			l	l		4.6	-	64	28.4		8.5		32.6		75.7		4.9	5.1	10.3	1	4	_	l	
SR4A	Cloudy	Moderate	12:13	9.2	Middle	4.6	0.0	66	28.4	28.4	8.5	8.5	32.6	32.6	75.7	75.7	4.9		10.5	10.2	5	5	817194	807799
				1	_	8.2	0.0	87	28.4		8.6		32.6		76.9		5.0		12.9	1	6			
				1	Bottom	8.2	0.0	79	28.4	28.4	8.6	8.6	32.6	32.6	77.2	77.1	5.0	5.0	12.7	1	5			
				<del> </del>		1.0	-	-	28.9		8.2		27.0		90.3		6.9		5.4		7			
				I	Surface	1.0	-	<u> </u>	28.9	28.9	8.2	8.2	27.8	27.4	90.3	90.4	6.0		5.5	1	7			
				I		-	-		- 20.9		0.2		21.0	1	90.4		-	6.5	-	1	-			
SR8	Fine	Moderate	12:07	5.2	Middle	-			-	-	-	-	<del>-</del>	-	-	-	-		-	6.2	-	7	820401	811633
				1		4.2	_	-	28.5					1					7.0		7			
				1	Bottom	4.2	-	-		28.5	8.2	8.2	27.7	27.7	91.9	92.5	6.1	6.2	7.0		8			
					1	4.2	-	-	28.4		8.2		27.8		93.0		6.2		7.0		ğ			

Water Quality Monitoring Results on

24 September 22 du	ring Mid-Flood Tide
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Monitoring	Weather	Sea	Sampling	Water	Sampling Dept	-	Current Speed	Current	Water Te	emperature (°C)		рН	Salin	ity (ppt)		aturation (%)	Disso Oxy	olved ⁄gen	Turbidity	/(NTU)	Suspende (mg/		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	0.3	42	28.6	28.6	8.2	8.2	31.2	31.2	82.7	82.6	5.4		14.6		4			
					Cundoc	1.0	0.3	39	28.5	20.0	8.2	0.2	31.2	01.2	82.4	02.0	5.4	5.4	14.6		4			
C1	Cloudy	Moderate	18:22	7.8	Middle	3.9	0.2	27	28.4	28.4	8.2	8.2	31.9	31.9	80.6	80.6	5.3 5.3	0.4	12.2	13.1	5	5	815619	804237
01	Oloudy	Moderate	10.22	7.0	Middle	3.9	0.2	30	28.4	20.4		0.2	31.9	01.0	80.6	00.0			12.4	10.1	4	Ü	010010	004207
					Bottom	6.8	0.3	6	28.4	28.4	8.2	8.2	32.2	32.2	81.4	81.5	5.3 5.3	5.3	12.2		5			
					Bottom	6.8	0.2	6	28.4	20.1		0.2	32.2	02.2	81.6	01.0		0.0	12.6		5			
					Surface	1.0	0.1	185	28.9	28.9	8.2	8.2	28.7	28.7	90.5	90.5	6.0	Į.	1.7	_	7			
					Cundoo	1.0	0.1	191	28.9	20.0	8.2	0.2	28.7	20	90.4	00.0	5.9	5.8	1.8	_	8			
C2	Cloudy	Moderate	17:13	11.4	Middle	5.7	0.1	195	28.9	28.9	8.2	8.2	28.9	28.9	85.3	85.2	5.6		5.9	5.9	9	9	825689	806929
	,					5.7	0.1	201	28.9		8.2		28.9		85.1		5.6		5.6		8			
					Bottom	10.4	0.1	165	28.6	28.6	8.1	8.1	29.9	29.9	72.5	72.3	4.8	4.8	10.0	4	10			
						10.4	0.0	165	28.6		8.1		29.9		72.1		4.7		10.4		10			
					Surface	1.0	0.4	274	28.1	28.1	8.2 8.2	8.2	28.4	28.4	79.7 79.6	79.7	5.3 5.3	ŀ	5.9	_	6			
						4.6	0.4	281 280	28.0								5.3	5.3	5.8	4	4			
C3	Fine	Moderate	18:25	9.2	Middle	4.6	0.4	280	27.9 27.9	27.9	8.2 8.2	8.2	28.7	28.7	79.4 79.5	79.5	5.3	ł	6.2	6.5	5 5	5	822102	817820
						8.2	0.4	248	27.8				28.9		81.0		5.4		7.5	-	5			
					Bottom	8.2	0.4	255	27.9	27.9	8.2 8.2	8.2	28.9	28.9	83.9	82.5	5.6	5.5	7.6	-	4			
						1.0	0.1	32	28.6		8.2		32.2		85.3		5.5		5.9	1	4			
					Surface	1.0	0.1	33	28.6	28.6	8.2	8.2	32.2	32.2	85.2	85.3	5.5	t	5.8	1	4			
			40.07			3.1	0.1	37	28.5	00.5	8.2		32.3		84.2		5.5	5.5	6.1		4	_	0.4000=	
IM1	Cloudy	Moderate	18:07	6.2	Middle	3.1	0.1	30	28.5	28.5	8.2	8.2	32.3	32.3	84.0	84.1	5.5	İ	6.1	7.6	5	5	818335	806438
					Bottom	5.2	0.1	359	28.2	28.2	8.2	8.2	32.7	32.7	78.8	79.0	5.1	5.1	10.8		5			
					Bollom	5.2	0.1	359	28.2	28.2	8.1	8.2	32.7	32.7	79.1	79.0	5.1	5.1	10.9		5			
					Surface	1.0	0.1	294	28.6	28.6	8.2	8.2	32.1	32.1	84.1	84.1	5.5		6.2		3			
					Sunace	1.0	0.1	293	28.6	20.0	8.2	0.2	32.1	32.1	84.1	04.1	5.5	5.5	6.2		4			
IM2	Cloudy	Moderate	18:01	7.1	Middle	3.6	0.1	283	28.4	28.4	8.2	8.2	32.3	32.3	83.3	83.2	5.4	3.3	11.4	10.3	4	4	819175	806222
11412	Oloddy	Wioderate	10.01	/	Middle	3.6	0.1	276	28.4	20.4	8.2	0.2	32.3	02.0	83.0	00.2	5.4		11.1	10.0	5	7	010170	000222
					Bottom	6.1	0.1	265	28.2	28.2	8.2	8.2	32.6	32.6	80.8	81.0	5.3	5.3	13.8		5			
					Bottom	6.1	0.1	261	28.2	20.2		0.2	32.6	02.0	81.1	01.0	5.3	0.0	13.3		4			
					Surface	1.0	0.1	265	28.8	28.8	8.2	8.2	29.4	29.4	88.0	87.9	5.8	ļ	5.2	4	6			
						1.0	0.1	268	28.8		8.2		29.5		87.7		5.8	5.7	5.4	4	5			
IM7	Cloudy	Moderate	17:44	7.8	Middle	3.9	0.2	287	28.6	28.6	8.2	8.2	29.9	29.9	84.7	84.7	5.6	ļ	10.4	9.3	5	5	821330	806842
						3.9	0.1	288	28.6		8.2		29.9		84.7		5.6		10.3	4	4			
					Bottom	6.8	0.2	282 288	28.6	28.6	8.2 8.2	8.2	30.0	30.0	85.9 86.0	86.0	5.6	5.6	12.3	4	4			
<u> </u>			1			ხ.გ	0.1	288	28.6		8.2		30.0		86.0		5.6		12.2		4			

DA: Depth-Averaged

Water Quality Monitoring Results on

24 September 22 during Mid-Flood Tide

Water Quali	ty Monito	oring Resu	its on		24 September 22	auring Mia-	riooa ii	iae																
Monitoring	Weather	Sea	Sampling	Water	Sampling Dep	th (m)	Current Speed	Current	Water Te	emperature (°C)		рН	Salin	nity (ppt)		aturation (%)	Disso Oxy		Turbidity	(NTU)	Suspend (mo		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling Dep	iii (iii)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0 1.0	0.2 0.2	243 237	28.3 28.2	28.3	8.3 8.3	8.3	27.6	27.7	87.7 84.2	86.0	5.9 5.6		5.1 5.0		8			
IM10	Fine	Moderate	17:18	8.4	Middle	4.2	0.2	242	28.2	28.2	8.3	8.3	27.9	27.9	84.6	84.8	5.7	5.7	6.9	6.4	6	7	822238	809816
						4.2	0.3	248	28.2		8.3		27.9		84.9		5.7		6.8	_	7			
					Bottom	7.4	0.3	237 239	28.5 28.6	28.6	8.3 8.3	8.3	27.8	27.8	86.3 87.3	86.8	5.7 5.8	5.8	7.3		7			
						1.0	0.3	280	28.3		8.2		27.7		88.7		5.8		6.4		9		-	
					Surface	1.0	0.4	273	28.3	28.3	8.2	8.2	27.7	27.7	89.0	88.9	5.9		6.5	-	8			
						3.5	0.3	256	28.3		8.2		27.8		89.7		6.0	6.0	7.7		8			
IM11	Fine	Moderate	17:26	7.0	Middle	3.5	0.3	248	28.3	28.3	8.2	8.2	27.8	27.8	90.2	90.0	6.0		7.8	7.5	8	8	821479	810545
					_	6.0	0.3	273	28.3		8.2		27.9		92.4		6.2		8.5	1	8			
					Bottom	6.0	0.4	278	28.3	28.3	8.2	8.2	27.9	27.9	94.2	93.3	6.3	6.3	8.5		8			
					0 /	1.0	0.3	264	28.4		8.2		27.6		85.7	05.0	5.7		5.2		9			
					Surface	1.0	0.4	269	28.4	28.4	8.2	8.2	27.6	27.6	85.4	85.6	5.7		5.1		9			
13.440	<b>-</b> 1	Madazi	47.00	0.0	NAC-L-III-	3.4	0.3	296	28.4	00.4	8.2	0.0	27.7	07.7	84.9	04.0	5.7	5.7	6.1		9		004457	044500
IM12	Fine	Moderate	17:33	6.8	Middle	3.4	0.3	289	28.3	28.4	8.2	8.2	27.7	27.7	84.8	84.9	5.7	Ì	6.0	6.3	8	9	821157	811506
					Bottom	5.8	0.3	254	28.3	28.3	8.2	8.2	27.7	27.7	84.7	84.8	5.7	5.7	7.6		8			
					DULLUITI	5.8	0.3	254	28.3	20.3	8.2	0.2	27.7	21.1	84.8	04.0	5.7	5.7	7.6		8			
					Surface	1.0	0.0	191	28.3	28.3	8.2	8.2	27.8	27.8	85.1	85.2	5.7		5.7		8			
					Surface	1.0	0.0	192	28.3	20.3	8.2	0.2	27.8	21.0	85.2	05.2	5.7	5.7	5.7		9			
SR1A	Fine	Moderate	17:53	4.8	Middle	2.4	0.1	188	-	_	-	_	-	_	-	_	-	5.7	-	5.9	-	8	819972	812658
0	0	moderate			madio	2.4	0.1	192	-		-		-		-		-		-	0.0	-	Ŭ	0.00.2	0.2000
					Bottom	3.8	0.0	173	28.3	28.3	8.2	8.2	27.8	27.8	85.5	85.6	5.7	5.7	6.1		7			
					= +	3.8	0.0	177	28.3		8.2		27.8		85.7	****	5.7		6.1		8			
					Surface	1.0	0.1	224	28.2	28.2	8.2	8.2	27.8	27.8	87.2	87.4	5.8		8.1		6			
						1.0	0.2	221	28.2		8.2		27.8		87.6		5.9	5.9	8.2		8			
SR2	Fine	Moderate	18:05	5.8	Middle	-	0.1	221	-	-	-	-	-	-	-	-	-		-	8.6	-	8	821467	814171
						-	0.1	222	-		-		-		-		-		-	_	-			
					Bottom	4.8	0.1	250	28.1	28.1	8.2	8.2	27.9	27.9	90.0	91.5	6.0	6.1	9.1	4	9			
						4.8 1.0	0.1	245 296	28.1				27.9		92.9		6.2		9.0		9			
					Surface	1.0	0.2	296	28.7 28.7	28.7	8.2 8.2	8.2	29.3 29.4	29.3	88.7 88.6	88.7	5.8	ŀ	6.1	-	3			
						4.3	0.2	297	28.6		8.2		29.4		82.1		5.8 5.4	5.6	6.2 7.2	-	4			
SR3	Cloudy	Moderate	17:38	8.6	Middle	4.3	0.1	288	28.6	28.6	8.2	8.2	29.0	29.8	82.0	82.1	5.4		7.2	9.0	4	4	822155	807557
						7.6	0.1	311	28.5		8.2		30.2		82.9		5.4		13.9		4			
					Bottom	7.6	0.1	311	28.5	28.5	8.2	8.2	30.2	30.2	83.2	83.1	5.5	5.5	13.0	-	4			
					_	1.0	0.0	209	28.8		8.2		30.8		83.6		5.4		10.2	<del>                                     </del>	6			
					Surface	1.0	0.0	212	28.8	28.8	8.2	8.2	30.8	30.8	83.7	83.7	5.4	<u> </u>	10.1	1	7	1		
0044	0					4.4	-	217	28.8		8.2		30.8		84.4	0.1.5	5.5	5.5	11.6	1	5	1 .		007005
SR4A	Cloudy	Moderate	18:42	8.8	Middle	4.4	0.0	219	28.8	28.8	8.2	8.2	30.8	30.8	84.6	84.5	5.5		11.6	11.7	6	6	817209	807805
					D. H	7.8	0.0	211	28.8	00.0	8.2	0.0	30.8	00.0	85.9	00.0	5.6	<b>5.0</b>	13.5	1	6	1		
					Bottom	7.8	0.0	205	28.8	28.8	8.2	8.2	30.8	30.8	86.0	86.0	5.6	5.6	13.2	1	5	1		
					Curtoso	1.0	-	-	28.5	20 E	8.2	8.2	27.8	27.0	88.3	88.3	5.9		5.2		10			
					Surface	1.0	-	-	28.4	28.5	8.2	8.2	27.8	27.8	88.3	88.3	5.9	E 0	5.3	1	9	1		
SR8	Fine	Moderate	17:38	5.4	Middle	-	-	-	-		-		-		-		-	5.9	-	6.1	-	9	820388	811625
SNO	FIIIE	wouerate	17.30	5.4	iviluale	-	-	-	-		-		-	<u> </u>	-		-		-	0.1	-	] 9	020300	011023
					Bottom	4.4	-	-	28.4	28.4	8.2	8.2	27.8	27.8	89.0	91.5	5.9	6.1	7.0		8			
					Dottom	4.4	-	-	28.4	20.4	8.2	0.2	27.8	21.0	93.9	31.3	6.3	0.1	7.0		8			
Λ: Donth Aver						4.4	_	_	∠ö.4		ö.Z		21.8		93.9	l	0.3		7.0		Ö	1		

DA: Depth-Averaged

Water Quality Monitoring Results on 27 September 22 during Mid-Ebb Tide

Monitoring	Weather	Sea	Sampling	Water	Sampling Dep		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)	Campling Dep	ur (m)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.4	213	28.6	28.6	8.3	8.3	33.4	33.4	94.6 94.6	94.6	6.1		5.7		22			
					Gunace	1.0	0.4	211	28.6	20.0	8.3	0.5	33.4	55.4		34.0	6.1	6.1	5.7		23			
C1	Rainy	Moderate	13:08	8.4	Middle	4.2	0.4	213	28.4	28.4	8.3	8.3	33.7	33.7	93.7	93.7	6.0	0.1	6.2	7.1	22	23	815639	804236
01	rtairy	Moderate	10.00	0.4	Wildale	4.2	0.4	216	28.4	20.4	8.3	0.0	33.7	00.1		50.7	6.0		6.2	] '	23	20	010000	004200
					Bottom	7.4	0.3	193	28.4	28.4	8.3	8.3	33.7	33.7	93.7 93.8	93.8	6.0	6.1	9.0		24			
					Bottom	7.4	0.3	188	28.3	20	8.3	0.0	33.8	00		00.0	6.1	0	9.5		25			
					Surface	1.0	0.2	183	28.7	28.7	8.2	8.2	30.7	30.8	83.9	83.9	5.5		11.5		8			
					Cunace	1.0	0.2	178	28.7	20.7	8.2	0.2	30.8	00.0	83.8	00.0	5.5	5.5	11.4		7			
C2	Rainy	Moderate	12:10	11.2	Middle	5.6	0.2	171	28.5	28.5	8.2	8.2	31.1	31.1	84.3 84.5	84.4	5.5	0.0	12.6	12.5	8	10	825684	806938
02	rtairy	Moderate	12.10	11.2	Wildale	5.6	0.2	167	28.5	20.0	8.2	0.2	31.2	01.1		0-11	5.5		12.4	12.0	9		020004	000000
					Bottom	10.2	0.2	188	28.4	28.5	8.3	8.3	31.5	31.5	87.5	87.7	5.7	5.7	13.9		14			
					Bottom	10.2	0.2	182	28.5	20.0	8.3	0.0	31.5	01.0	87.8	07.7	5.7	0.7	13.2		13			
					Surface	1.0	0.4	82	27.8	27.8	8.2	8.2	29.3	29.3	72.8	72.8	4.9		3.2		7			
					Cunace	1.0	0.4	83	27.8	27.0	8.2	0.2	29.3	20.0	72.8	72.0	4.9	4.9	3.1		7			
C3	Fine	Moderate	13:18	9.6	Middle	4.8	0.4	65	27.8	27.8	8.2	8.1	29.4	29.4	73.4 73.8	73.6	4.9	4.0	4.2	4.1	8	7	822115	817794
00	1 1110	Moderate	10.10	5.0	Wildale	4.8	0.4	62	27.8	27.0	8.1	0.1	29.4	20.4		70.0	4.9		4.1		7	•	022110	017704
					Bottom	8.6	0.5	92	27.8	27.8	8.1	8.1	29.4	29.4	77.1	78.0	5.2	5.3	5.1		8			
					Dottom	8.6	0.5	86	27.8	21.0	8.1	0.1	29.4	23.4	78.9	70.0	5.3	5.5	5.0		6			
					Surface	1.0	0.1	179	28.5	28.5	8.3	8.3	32.3	32.4	88.4	88.5	5.7		6.7		12			
					Curiaco	1.0	0.1	173	28.5	20.0	8.3	0.0	32.4	0Zi	88.6	00.0	5.7	5.8	6.9		12			
IM1	Rainy	Moderate	12:53	6.5	Middle	3.3	0.2	203	28.4	28.4	8.3	8.3	32.9	32.9	89.7 89.8	89.8	5.8	0.0	9.4	9.5	13	13	818344	806468
	rtairy	Moderate	12.00	0.0	Wildale	3.3	0.1	207	28.4	20.4	8.3	0.0	33.0	02.0		00.0	5.8		9.8	0.0	13	10	010044	000400
					Bottom	5.5	0.2	194	28.3	28.3	8.3	8.3	33.6	33.6	92.1 92.3	92.2	6.0	6.0	12.1		13			
					201.0111	5.5	0.1	191	28.3	20.0	8.3	0.0	33.6	00.0	92.3	OZ.Z	6.0	0.0	12.2		13			
					Surface	1.0	0.2	158	28.5	28.5	8.3	8.3	31.9	31.9	87.8	87.8	5.7		5.8		11			
					- Curidoo	1.0	0.2	158	28.5	20.0	8.3	0.0	31.9	01.0	87.7	01.0	5.7	5.7	6.3		12			
IM2	Rainy	Moderate	12:48	7.2	Middle	3.6	0.2	190	28.4	28.4	8.3	8.3	32.3	32.3	88.3 88.6	88.5	5.7	0.7	8.3	8.3	10	10	819201	806247
		moderate	12.10		····idaio	3.6	0.1	189	28.4	20	8.3	0.0	32.3	02.0		00.0	5.8		8.5	0.0	11		0.020.	0002
					Bottom	6.2	0.1	187	28.3	28.3	8.3	8.3	33.2	33.2	90.4	90.6	5.9	5.9	10.4		9			
					Bottom	6.2	0.2	189	28.3	20.0	8.3	0.0	33.2	00.2		50.0	5.9	0.0	10.4		8			
					Surface	1.0	0.2	94	28.8	28.8	8.2	8.2	30.2	30.3	82.1 82.1	82.1	5.4		6.8	1	8			
					Canado	1.0	0.2	87	28.8	25.0	8.2	5.2	30.4	55.0		JZ.1	5.4	5.4	7.0	1	8			
IM7	Rainy	Moderate	12:31	8.4	Middle	4.2	0.2	91	28.5	28.5	8.2	8.2	31.3	31.3	82.2	82.3	5.4	J	12.0	12.0	8	8	821341	806853
11417	rainy	·viodorate	12.01	0.4	Middle	4.2	0.2	87	28.5	20.0	8.2	0.2	31.3	01.0	82.3	02.0	5.4		12.6	1.2.0	- 8	J	0210-1	000000
					Bottom	7.4	0.2	124	28.5	28.5	8.2	8.2	31.5	31.5	82.9 83.0	83.0	5.4	5.4	16.8	1	8			
					Dottom	7.4	0.2	121	28.5	20.0	8.2	0.2	31.5	01.0	83.0	00.0	5.4	0.4	16.9		9			

DA: Depth-Averaged

Water Quality Monitoring Results on 27 September 22 during Mid-Ebb Tide

water Qual	ity wont	orning inesu	its on		27 September 22	uuring miu-		<del>,</del>																
Monitoring	Weather	Sea	Sampling	Water	Compling Death	- (m)	Current Speed	Current	Water Te	emperature (°C)		рН	Salini	ty (ppt)		aturation (%)	Disso Oxyg		Turbidity	(NTU)	Suspende (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling Depti	· (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	82	28.2	28.2	8.2	8.2	27.9	27.9	80.9	80.9	5.4		7.0		8			
					Surface	1.0	0.4	79	28.2	20.2	8.2	0.2	27.9	21.9	80.9 80.9	60.9	5.4	5.4	7.0		7			
IM10	Fine	Moderate	12:13	9.2	Middle	4.6	0.3	75	28.4	28.4	8.2	8.2	28.0	28.0	81.0	81.1	5.4	3.4	8.1	8.1	8	8	822261	809851
IIVITO	1 1116	Moderate	12.10	3.2	Middle	4.6	0.3	81	28.4	20.4	8.2	0.2	28.0	20.0	81.1	01.1	5.4		8.1	0.1	8	Ü	022201	003031
					Bottom	8.2	0.3	81	28.8	28.9	8.2	8.2	27.6	27.6	81.6	81.7	5.4	5.4	9.0		9			
					Dottom	8.2	0.3	74	28.9	20.0	8.2	0.2	27.6	27.0	81.8	01.7	5.4	0.4	9.1		8			
					Surface	1.0	0.4	101	28.3	28.3	8.1	8.1	27.7	27.7	80.1	80.2	5.4		5.5	1	7			
						1.0	0.4	103	28.3		8.1		27.7		80.2		5.4	5.4	5.6	_	7			
IM11	Fine	Moderate	12:20	7.8	Middle	3.9	0.4	71	28.3	28.3	8.1	8.1	27.9	27.9	81.0	81.2	5.4		6.9	6.8	9	8	821500	810549
						3.9	0.4	66	28.3		8.1		27.9		81.3		5.4		7.0	4	8			
					Bottom	6.8	0.3	115	28.3	28.3	8.1	8.1	27.9	27.9	82.7 83.5	83.1	5.5	5.6	7.9	4	8			
						6.8	0.4	112	28.3		8.1		27.8				5.6		7.9		8			
					Surface	1.0	0.4	101 103	28.2 28.2	28.2	8.2	8.2	28.2	28.2	76.8 77.2	77.0	5.1 5.2		7.1 7.1	1	- 8 7			
						3.6	0.4	103	28.2								5.2	5.2	8.7	1				
IM12	Fine	Moderate	12:26	7.2	Middle	3.6	0.4	108	28.2	28.2	8.1	8.1	28.2	28.2	78.1 78.3	78.2	5.2		8.6	8.3	8	8	821163	811532
						6.2	0.4	119	28.2		8.1		28.2		80.7		5.4		9.1	-	8			
					Bottom	6.2	0.4	124	28.2	28.2	8.1	8.1	28.2	28.2	81.4	81.1	5.4	5.4	9.1	1	8			
						1.0	0.0	18	28.2		8.1		28.1		75.6		5.0		6.2	1	8			
					Surface	1.0	0.0	19	28.2	28.2	8.1	8.1	28.1	28.1	75.6	75.6	5.1		6.2	1	7			
						2.9	0.0	25	-		-		-		-		-	5.1	-	1	-			
SR1A	Fine	Moderate	12:44	5.8	Middle	2.9	0.1	28	-	-	-	-	_	-	_	-	_		_	6.7	_	8	819981	812657
						4.8	0.1	33	28.2		8.1		28.1		76.2		5.1		7.3	1	8			
					Bottom	4.8	0.1	32	28.2	28.2	8.1	8.1	28.1	28.1	76.4	76.3	5.1	5.1	7.3	1	8			
					Ourton	1.0	0.4	47	28.1	00.4	8.1	0.4	28.2	00.0	77.3	77.0	5.2		8.3		7			
					Surface	1.0	0.4	51	28.1	28.1	8.1	8.1	28.3	28.3	77.1	77.2	5.2	5.2	8.2	1	8			
SR2	Fine	Moderate	12:56	5.6	Middle	-	0.3	52	-	-	-		-		-	_	-	5.2	-	8.6	-	7	821469	814157
SK2	Fille	Moderate	12.36	5.6	Middle	-	0.3	46	-	-	-	_	-	-	-	1 -	-		-	0.0	-	′	021409	014137
					Bottom	4.6	0.3	64	28.0	28.1	8.1	8.1	28.3	28.3	82.6	83.2	5.5	5.6	9.0		7			
					Bottom	4.6	0.3	70	28.1	20.1	8.1	0.1	28.3	20.3	83.8	03.2	5.6	3.0	9.0		7			
					Surface	1.0	0.3	126	28.8	28.8	8.1	8.1	29.9	29.9	80.6	80.6	5.3		5.2		8			
					Ourlace	1.0	0.3	120	28.8	20.0	8.1	0.1	30.0	23.3	80.5	00.0	5.3	5.3	5.8		7			
SR3	Rainy	Moderate	12:25	8.9	Middle	4.5	0.2	125	28.6	28.6	8.2	8.2	30.5	30.5	80.8	80.9	5.3	0.0	9.2	9.0	8	8	822133	807568
0.10						4.5	0.2	121	28.6		8.2		30.5		80.9		5.3		9.5	1	8	-		
					Bottom	7.9	0.2	154	28.6	28.6	8.2	8.2	30.9	30.9	86.1	86.3	5.6	5.6	12.1	4	9			
						7.9	0.2	161	28.6		8.2		30.9		86.5		5.6		12.1	<u> </u>	8			
					Surface	1.0	0.1	81	28.5	28.5	8.3	8.3	32.3	32.4	87.2	87.2	5.7		9.7	4	22			
						1.0	0.1	76	28.5		8.3		32.4		87.1		5.7	5.7	9.4	4	21			
SR4A	Rainy	Moderate	13:29	9.3	Middle	4.7	0.0	99	28.3	28.3	8.3	8.3	33.0	33.0	87.8 88.1	88.0	5.7 5.7		10.2	11.2	21	21	817195	807805
						4.7	0.0	105	28.3		8.3		33.1						10.5	-	20			
					Bottom	8.3	0.0	114	28.3	28.3	8.3	8.3	33.4	33.4	90.2	90.3	5.8 5.9	5.9	13.9	-	20			
						8.3 1.0	0.1	106	28.3		8.3					1	5.9		13.5 8.5		7			l I
					Surface	1.0	-	-	28.3	28.3	8.1	8.1	28.1	28.1	81.3 81.4	81.4	5.4		8.5	1	6			
						-	-	<u> </u>	28.3		- 0.1	1	20.1		81.4		5.4	5.4	- 8.0	1	-			
SR8	Fine	Moderate	12:29	5.4	Middle	<u> </u>	-	<del></del>	-	-	-	-	$\vdash$	-	-	-			-	8.8	-	7	820386	811627
						4.4	-		28.2		8.1		28.1		84.5		5.6		9.0	1	8			
					Bottom	4.4	-	<del></del>	28.2	28.2	8.1	8.1	28.1	28.1	85.7	85.1	5.7	5.7	9.0	1	7			
					I	7.7	_		20.2		0.1	L	20.1		00.1		5.1		9.0		,			

Water Quality Monitoring Results on 27 September 22 during Mid-Flood Tide

water Qua	nty Monit	oring Resu	แร บก		27 September 22	auring wia-	rioda H	ae																
	Weather	Sea	Sampling	Water			Current		Water T	emperature (°C)		рН	Salin	nity (ppt)	DO S	Saturation	Disso		Turbidity	(NTU)	Suspende		Coordinate	Coordinate
Monitoring	Weather	Oca	Camping	Water	Sampling Dept	h (m)	Speed	Current	Water	emperature ( c)		P	- Cu	y (PP1)		(%)	Оху	gen	· u. D. u.t.y	,(	(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)
				,		4.0			00.0	Ŭ							F 0		40.0					
					Surface	1.0	0.4	38	28.3 28.3	28.3	8.3	8.3	33.7	33.7	90.4	90.4	5.8		12.8	-	6			
						1.0	0.4	37			8.3		33.7				5.8	5.8	12.8	-	7			
C1	Cloudy	Moderate	08:02	8.8	Middle	4.4	0.5	26	28.2	28.2	8.3	8.3	33.7	33.7	89.9	89.9	5.8		13.4	12.6	6	7	815640	804264
						4.4	0.5	29	28.2		8.3		33.7		89.9		5.8		13.8	_	7			
					Bottom	7.8	0.4	37	28.2	28.2	8.3	8.3	33.7	33.7	89.8 89.8	89.8	5.8	5.8	11.4	-	8			
						7.8	0.5	44	28.2		8.3		33.7				5.8		11.2	ļ	9			
					Surface	1.0	0.5	351	28.8	28.8	8.2	8.2	30.3	30.3	82.2 82.5	82.4	5.4		9.3	-	6			
						1.0	0.5	352	28.8		8.2		30.3				5.4	5.5	9.9		7			
C2	Cloudy	Moderate	09:10	11.6	Middle	5.8	0.5	353	28.7	28.7	8.2	8.2	30.9	30.9	84.3	84.4	5.5		14.8	13.4	7	7	825660	806933
	,					5.8	0.5	357	28.7		8.2		31.0		84.5		5.5		14.1		7			
					Bottom	10.6	0.5	358	28.6	28.6	8.2	8.2	31.2	31.1	87.0 87.3	87.2	5.7	5.7	16.3		9			
						10.6	0.5	352	28.6		8.2		31.1				5.7		16.3		8			
					Surface	1.0	0.5	268	28.3	28.3	8.0	8.0	27.5	27.5	81.9 81.9	81.9	10.3		7.2		12			
						1.0	0.5	266	28.3		8.0		27.5				10.7	11.3	7.1		13			
C3	Fine	Moderate	08:03	9.8	Middle	4.9	0.6	237	28.3	28.3	8.0	8.0	27.6	27.6	81.9 81.9	81.9	12.0 12.3		8.1	8.1	14	14	822096	817786
						4.9	0.6	231	28.3		8.0		27.7						8.4	-	13			
					Bottom	8.8	0.5	258	28.3 28.3	28.3	8.0	8.0	27.7	27.7	81.8 81.8	81.8	8.8 9.2	9.0	9.0	-	16			
						8.8	0.5	256								i i			9.1		15			
					Surface	1.0	0.3	15 12	28.5 28.5	28.5	8.2	8.2	31.7	31.7	88.5 88.4	88.5	5.8 5.8		6.9	-	12 12			
						3.5	0.3	357										5.7		-				
IM1	Cloudy	Moderate	08:19	7.0	Middle	3.5	0.3	357	28.5 28.5	28.5	8.2	8.2	31.9	31.9	85.2 85.0	85.1	5.5 5.5	-	11.7 12.1	11.5	11 10	10	818369	806435
						6.0	0.3	0	28.4				31.9				5.5		15.9	-	9			
					Bottom	6.0	0.3	0	28.4	28.4	8.2	8.2	31.9	31.9	85.2 85.3	85.3	5.6	5.6	15.7	-	8			
						1.0	0.4	29	28.4		8.2		31.6				5.7		4.0	-	13			
					Surface	1.0	0.4	33	28.4	28.4	8.2	8.2	31.6	31.6	86.9 86.7	86.8	5.7	ŀ	4.0		14			
						3.6	0.4	15	28.4		8.2		31.7		86.1		5.6	5.7	3.8	-	14			
IM2	Cloudy	Moderate	08:26	7.2	Middle	3.6	0.4	11	28.4	28.4	8.2	8.2	31.7	31.7	86.1	86.1	5.6	ŀ	3.9	6.7	14	14	819183	806240
						6.2	0.4	9	28.4		8.2		31.9				5.5		12.6		15			
					Bottom	6.2	0.4	10	28.4	28.4	8.2	8.2	31.9	31.9	84.5 84.5	84.5	5.5	5.5	11.8	-	16			
						1.0	0.3	12	28.8		8.1		29.7				5.4		4.2		15			
					Surface	1.0	0.3	15	28.8	28.8	8.1	8.1	29.7	29.7	81.7 81.8	81.8	5.4		4.2	1	16			
						4.3	0.4	352	28.5		8.2		31.1				5.4	5.4	8.9	1	16			
IM7	Cloudy	Moderate	08:45	8.5	Middle	4.3	0.4	358	28.6	28.6	8.2	8.2	31.0	31.0	82.1 82.2	82.2	5.4		8.7	9.2	16	16	821367	806828
						7.5	0.4	355	28.5		8.2		31.4				5.5		14.5	1	17			
					Bottom	7.5	0.4	356	28.5	28.5	8.2	8.2	31.4	31.4	84.3 84.4	84.4	5.5	5.5	14.6	1	18			
	l		l		1	7.0	0.7	000	20.0	ļ	5.2		U1.4		07.7	1	0.0		17.0	1				

DA: Depth-Averaged

Water Quality Monitoring Results on 27 September 22 during Mid-Flood Tide

Water Quar		ornig ittood			Zi September ZZ	aaring iiia		uc																
Monitoring	Weather	Sea	Sampling	Water	0	- ()	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 Depti	n (m)	(m/s)	Direction	Value	Average	Value	Average	Value A	verage	Value	Ì	Value	DA	Value	DA	Value	DA	HK Grid (Northing)	HK Grid (Easting)
					0.1	1.0	0.5	298	28.1	00.4	8.1		28.2		77.6		5.2		7.7		7			
					Surface	1.0	0.4	300	28.0	28.1	8.1	8.1	28.2	28.2	77.8	77.7	5.2		7.6		8			
10.440	<b>-</b>	Madazi	00.04	0.0	NA1.4.41.	4.0	0.4	288	27.6	07.0	8.1	0.4	28.4	00.4	79.0	70.0	5.3	5.3	8.3		7		000004	000044
IM10	Fine	Moderate	09:04	8.0	Middle	4.0	0.4	287	27.6	27.6	8.1	8.1	28.4	28.4	79.4	79.2	5.3		8.2	8.4	8	8	822261	809844
					Dattana	7.0	0.4	282	27.3	27.2	8.1	0.4	28.5	28.5	82.0	82.5	5.5	5.6	9.4		9			
					Bottom	7.0	0.4	279	27.3	27.3	8.1	8.1	28.6	28.5	83.0	82.5	5.6	0.0	9.5		8			
					Surface	1.0	0.5	292	28.1	28.1	8.1	8.1	28.2	28.2	77.3	77.5	5.2		7.6		8			
					Surface	1.0	0.5	294	28.0	20.1	8.1	0.1	28.2	20.2	77.6	11.5	5.2	5.3	7.5		7			
IM11	Fine	Moderate	08:58	8.4	Middle	4.2	0.4	269	27.7	27.7	8.1	8.1	28.4	28.4	78.5	78.7	5.3	5.5	8.2	8.4	8	7	821511	810559
IIVITT	1 1116	Moderate	00.50	0.4	ivildale	4.2	0.5	270	27.6	21.1	8.1	0.1	28.4	20.4	78.8	70.7	5.3		8.2	0.4	6	,	021311	010555
					Bottom	7.4	0.5	291	27.3	27.3	8.1	8.1	28.6	28.6	81.4	82.2	5.5	5.6	9.4		7			
					Bottom	7.4	0.5	298	27.2	27.0	8.1	0.1	28.7	20.0	82.9	02.2	5.6	0.0	9.5		7			
					Surface	1.0	0.5	278	28.1	28.1	8.1	8.1	28.2	28.2	75.8	76.0	5.1		6.1		8			
						1.0	0.5	273	28.1	20	8.1	0	28.2	20.2	76.1	. 0.0	5.1	5.1	6.1		7			
IM12	Fine	Moderate	08:54	9.4	Middle	4.7	0.4	289	28.1	28.1	8.1	8.1	28.2	28.2	77.0	77.1	5.1	• • •	7.1	7.2	8	8	821140	811533
						4.7	0.4	295	28.1		8.1		28.2		77.1		5.2		7.1		8	-		
					Bottom	8.4	0.4	275	28.1	28.1	8.1	8.1	28.2	28.2	79.7	80.0	5.3	5.4	8.4		9			
						8.4	0.5	268	28.1		8.1		28.2		80.3		5.4		8.5		9			
					Surface	1.0	-	209	28.1	28.1	8.0	8.0	27.9	27.9	79.1	79.3	5.3		5.4		7			
						1.0	0.0	201	28.0		8.0		27.9		79.4		5.3	5.3	5.4		8			
SR1A	Fine	Moderate	08:30	4.8	Middle	2.4	0.0	211	-	-	-		-	-	-	-	-		-	6.0	-	8	819973	812659
						2.4	0.0	204	-		<u> </u>								-		-			
					Bottom	3.8	0.1	222 226	28.0 28.0	28.0	8.0	8.0	28.0	28.0	81.9 83.4	82.7	5.5 5.6	5.6	6.6		8 8			
				1		3.8																		
					Surface	1.0	0.1	242 245	28.0 28.0	28.0	8.0	8.0	28.3	28.3	73.0 73.3	73.2	4.9 4.9		8.2 9.0		8 8			
						-	0.0	236	28.0		8.0						4.9	4.9						
SR2	Fine	Moderate	08:17	5.6	Middle	<u> </u>	0.0	236	+ -	-	-	-	-	-	-	-	-		-	8.6	-	9	821439	814180
						4.6	0.0	229	28.0		8.0	1	28.3		73.0		4.9		8.1		9			
					Bottom	4.6	0.0	216	28.0	28.0	8.0	8.0	28.3	28.3	74.1	73.6	5.0	5.0	9.1		9			
						1.0	0.5	1	28.8		8.1		20.6		80.9		5.3		5.1		12			
					Surface	1.0	0.5	2	28.8	28.8	8.1	8.1	29.7	29.6	80.9	80.9	5.3		5.3		12			
						4.4	0.5	337	28.7		8.2		30.0		82.6		5.4	5.4	7.1		13			
SR3	Cloudy	Moderate	08:52	8.8	Middle	4.4	0.5	329	28.7	28.7	8.2	8.2	30.1	30.1	82.9	82.8	5.4		7.0	8.6	13	13	822132	807571
					_	7.8	0.5	348	28.5		8.2		31 /		85.3		5.6		13.9		13			
					Bottom	7.8	0.4	350	28.6	28.6	8.2	8.2	31.4	31.4	85.5	85.4	5.6	5.6	13.0		14			
						1.0	0.0	167	28.4		8.3		31.6		85.9		5.6		12.7		10			
					Surface	1.0	0.0	173	28.4	28.4	8.3	8.3	31.6	31.6	85.9	85.9	5.6	- 0	12.7		10			
0044	Clarent	Maderete	07:40	0.0	Maiototio	4.5	0.0	188	28.4	20.4	8.3		21.7	24.7	85.7	05.7	5.6	5.6	12.8	400	12	40	047400	007707
SR4A	Cloudy	Moderate	07:42	9.0	Middle	4.5	-	185	28.4	28.4	8.3	8.3	31.7	31.7	85.7	85.7	5.6		12.9	13.0	13	12	817182	807787
					Datton	8.0	0.0	198	28.4	20.4	8.3	0.0	21.7	24.7	85.7	05.0	5.6	F.C	12.9	1	13			
			<u> </u>	<u>                                     </u>	Bottom	8.0	0.0	204	28.4	28.4	8.3	8.3	31.7	31.7	85.8	85.8	5.6	5.6	13.8	L	14			<u> </u>
					Surface	1.0	-	-	28.4	28.4	8.1	8.1	27.9	27.9	81.2	81.2	5.4		8.5		9			
					Surface	1.0	-	-	28.4	∠8.4	8.1	8.1	27.9	21.9	81.1	δ1.∠	5.4	5.4	8.5		8			
SR8	Fine	Moderate	08:48	5.2	Middle	-	-	-	-		-		-		-		-	5.4	-	8.8	-	8	820390	811646
SNO	FILLE	wouerate	00.40	ე.∠	Middle	-	-	-	-		-		-		-		-		-	0.0	-	0	020390	011040
					Bottom	4.2	-	-	28.1	28.1	8.1	8.1	28.2	28.1	84.0	84.8	5.6	5.7	9.0		8			
					DOMONI	4.2	-	-	28.1	20.1	8.1	0.1	28.1	ZU. I	85.5	04.0	5.7	3.1	9.0		8			

Water Quality Monitoring Results on 29 September 22 during Mid-Ebb Tide

	ity ilioint	oring Kesu			29 September 22	aaring iina	Current								DO S	aturation	Disso	havla			Suspende	ad Solide		ı
Monitoring	Weather	Sea	Sampling	Water	Committee Design	- ()	Speed	Current	Water Te	emperature (°C)	pН		Salini	ity (ppt)	003	(%)	Oxy		Turbidity	/(NTU)	(mg		Coordinate	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling Depti	n (m)	(m/s)	Direction	Value	Average	Value A	verage	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	HK Grid (Northing)	(Easting)
					Surface	1.0	0.2	198	28.0	28.0	8.3	8.3	32.8	32.9	91.0	90.8	5.9		5.0		9			
					Sulface	1.0	0.1	205	28.0	20.0	8.3	0.3	32.9	32.9	90.6	90.6	5.9	5.9	5.1		9			
C1	Rainy	Moderate	14:22	8.4	Middle	4.2	0.2	191	27.9	27.9	8.3	8.3	33.3	33.3	89.2	89.2	5.8	5.9	5.7	8.4	9	9	815642	804263
O1	Italily	Moderate	14.22	0.4	Middle	4.2	0.2	183	27.9	21.9	8.3	0.5	33.3	33.3	89.1	09.2	5.8		6.1	0.4	9	9	013042	004203
					Bottom	7.4	0.2	226	27.9	27.9	8.2	8.2	33.7	33.7	89.5	89.6	5.8	5.8	14.1		10			
					Bottom	7.4	0.1	229	27.9	21.5	8.2	0.2	33.7	55.7	89.7	03.0	5.8	5.0	14.2		9			
					Surface	1.0	0.0	45	28.3	28.3	8.1	8.1	30.5	30.5	85.2	85.2	5.6		7.2		10			
					Surface	1.0	0.0	42	28.3	20.5	8.1	0.1	30.5	30.3	85.2	5.2	5.6	5.6	7.6		8			
C2	Rainy	Moderate	13:22	11.8	Middle	5.9	0.1	55	28.2	28.2	8.2	8.2	30.9	31.0	85.8	85.9	5.6	3.0	9.2	9.4	9	9	825673	806934
02	reality	Woderate	10.22	11.0	ivildale	5.9	0.0	53	28.2	20.2	8.2	0.2	31.1	31.0	86.0	00.0	5.6		9.2	3.4	10	3	023073	000334
					Bottom	10.8	0.1	25	28.2	28.2	8.2	8.2	31.5	31.4	86.3	86.4	5.7	5.7	11.3		9			
					Bottom	10.8	0.0	19	28.2	20.2	8.2	0.2	31.3	31.4	86.5	00.4	5.7	5.7	11.9		9			
					Surface	1.0	0.4	86	27.8	27.8	8.2	8.2	29.6	29.6	80.6	80.5	5.4		5.8		10			
					Ourrace	1.0	0.3	81	27.8	27.0	8.2	0.2	29.6	23.0	80.4	00.0	5.4	5.4	5.8		10			
C3	Fine	Moderate	14:32	9.0	Middle	4.5	0.4	77	27.7	27.7	8.2	8.2	29.8	29.9	80.2	80.3	5.3	5.4	6.0	6.6	10	10	822106	817824
03	1 1110	Woderate	14.52	3.0	ivildale	4.5	0.3	73	27.7	21.1	8.2	0.2	29.9	23.3	80.3	00.5	5.4		6.0	0.0	10	10	022100	017024
					Bottom	8.0	0.3	57	27.7	27.7	8.2	8.2	30.0	30.0	87.5	88.3	5.8	5.9	7.9		10			
					Dottom	8.0	0.3	64	27.7	21.1	8.2	0.2	30.0	30.0	89.1	00.0	5.9	5.5	7.9		10			
					Surface	1.0	0.1	175	28.0	28.0	8.2	8.2	32.9	32.9	88.2	88.2	5.8		7.3		10			
					Gunaco	1.0	0.1	182	28.0	20.0	8.2	0.2	32.9	02.0	88.1	00.2	5.7	5.8	7.4		10			
IM1	Rainy	Moderate	14:08	7.0	Middle	3.5	0.1	193	27.9	27.9	8.2	8.2	33.1	33.1	88.2 88.3	88.3	5.8	0.0	7.8	9.2	10	10	818345	806449
	. tuiny	moderate		1.0	- Inidaio	3.5	0.1	186	27.9	27.0	8.2	0.2	33.1	00		00.0	5.8		7.6	0.2	10		0.00.0	000110
					Bottom	6.0	0.1	197	27.9	27.9	8.2	8.2	33.3	33.3	89.4	89.5	5.8	5.8	12.9		9			
					5000011	6.0	0.1	193	27.9	27.00	8.2	0.2	33.3	00.0	89.6	00.0	5.8	0.0	12.3		9			
					Surface	1.0	0.1	151	28.1	28.1	8.2	8.2	32.7	32.7	89.2	89.1	5.8		6.7		7			
						1.0	0.1	151	28.1		8.2		32.8		88.9		5.8	5.8	7.0		8			
IM2	Rainy	Moderate	14:04	7.2	Middle	3.6	0.1	169	27.9	27.9	8.2	8.2	33.0	33.0	87.9	88.0	5.7	0.0	9.3	8.9	9	9	819161	806249
	,					3.6	0.1	172	27.9		8.2		33.0		88.1		5.7		9.2		9	•		
					Bottom	6.2	0.1	183	27.9	27.9	8.2	8.2	33.2	33.2	89.6	89.7	5.8	5.8	10.5		9			
						6.2	0.1	186	27.9				33.2		89.7		5.8		10.9		9			
					Surface	1.0	0.2	80	28.3	28.3	8.2	8.2	31.1	31.2	86.2	86.2	5.7		6.3	4	11			
						1.0	0.2	79	28.2		8.2		31.3		86.1		5.6	5.7	6.7		11			
IM7	Rainy	Moderate	13:45	8.7	Middle	4.4	0.1	75	28.0	28.0	8.2	8.2	32.3	32.3	86.1	86.3	5.6	-	10.9	10.1	10	10	821336	806820
	,				***************************************	4.4	0.2	69	28.0		8.2		32.3		86.4		5.7		10.1	4	10			
					Bottom	7.7	0.1	96	28.0	28.0	8.2	8.2	32.4	32.4	88.2	88.4	5.8	5.8	13.2	4	9			
						7.7	0.1	92	28.0		8.2		32.5		88.5		5.8		13.7		9			

DA: Depth-Averaged

Water Quality Monitoring Results on 29 September 22 during Mid-Ebb Tide

Water Quar	,	g			29 September 22	aaring iiia																		
Monitoring	Weather	Sea	Sampling	Water	O a marilla - D	h ()	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 Dept	n (m)	(m/s)	Direction	Value	Average	Value	Average	Value	Average		Average	Value	DA	Value	DA	Value	DA	HK Grid (Northing)	HK Grid (Easting)
					Ourford	1.0	0.2	82	27.7	07.7	8.2	0.0	29.1	00.4	85.5	05.0	5.7		7.6		15			
					Surface	1.0	0.2	88	27.7	27.7	8.2	8.2	29.2	29.1	85.7	85.6	5.7	- 0	7.5	1	14			
IMAO	Ei	Moderate	12.00		Middle	4.4	0.2	68	27.7	27.7	8.2	0.0	29.4	20.4	86.6	86.7	5.8	5.8	8.2	8.2	14	15	000000	000001
IM10	Fine	Moderate	13:26	8.8	Ivildale	4.4	0.2	62	27.7	21.1	8.2	8.2	29.4	29.4	86.8	86.7	5.8		8.1	8.2	15	15	822233	809831
					Bottom	7.8	0.2	75	27.7	27.7	8.2	8.2	29.3	29.3	87.5	87.7	5.9	5.9	9.1	1	17			
					BOILOITI	7.8	0.1	69	27.7	21.1	8.2	0.2	29.3	29.3	87.9	01.1	5.9	5.9	9.0		16			
					Surface	1.0	0.2	75	27.8	27.8	8.2	8.2	28.8	28.8	86.9	87.0	5.8		6.1		10			
					Gundoc	1.0	0.2	79	27.7	27.0	8.2	0.2	28.8	20.0	87.1	01.0	5.8	5.9	6.2		10			
IM11	Fine	Moderate	13:32	7.2	Middle	3.6	0.2	73	27.7	27.7	8.2	8.2	28.9	28.9	88.1	88.3	5.9	0.0	7.1	7.3	10	11	821496	810561
						3.6	0.2	70	27.7		8.2		28.9		88.4		5.9		7.2	1	11			
					Bottom	6.2	0.2	79	27.7	27.7	8.2	8.2	28.9	28.9	89.6	89.9	6.0	6.0	8.7	1	12			
						6.2	0.2	81	27.7		8.2	_	28.9		90.2		6.0		8.7		13			
					Surface	1.0	0.2	85	27.8	27.8	8.2	8.2	29.0	29.0	86.3	86.4	5.8		6.1	4	9			
						1.0	0.2	87	27.8		8.2		29.0		86.5		5.8	5.9	6.2	4	9			
IM12	Fine	Moderate	13:37	7.8	Middle	3.9	0.3	113	27.8	27.8	8.2	8.2	29.0	29.0	88.2	88.2	5.9		7.3	7.2	10	10	821176	811541
						3.9	0.3	112	27.8		8.2		29.0		88.2		5.9		7.3	_	10			
					Bottom	6.8 6.8	0.3	76 76	27.8 27.8	27.8	8.2	8.2	28.8	28.7	90.3	90.9	6.1 6.1	6.1	8.0	-	11			
						1.0	0.0	27	27.7										7.4	1	21			
					Surface	1.0	0.0	24	27.7	27.7	8.2	8.2	28.9	28.9	86.9 87.2	87.1	5.8 5.8		7.4		20			
						2.9	0.0	45	-		- 0.2		20.9		- 01.2		-	5.8	-	1	-			
SR1A	Fine	Moderate	14:03	5.8	Middle	2.9	0.0	43	+ -	-	-	-	-	-	-	-	-		-	7.8	-	20	819974	812663
						4.8	0.0	26	27.7		8.2		28.9		89.8		6.0		8.0	1	20			
					Bottom	4.8	0.0	23	27.7	27.7	8.2	8.2	28.9	28.9	90.8	90.3	6.1	6.1	8.1	1	20			
						1.0	0.2	44	27.7		8.1		28.9		88.9		6.0		8.7		16			
					Surface	1.0	0.2	43	27.7	27.7	8.1	8.1	28.9	28.9	89.3	89.1	6.0		8.7	1	14			
						-	0.2	58			-		-		-		-	6.0	-	1	-			
SR2	Fine	Moderate	14:14	5.6	Middle	-	0.2	52	-	-	-	-	-	-	-	-	-		-	8.9	-	18	821484	814149
					Dallan	4.6	0.3	49	27.7	07.7	8.2	0.0	28.9	00.0	92.2	00.0	6.2	0.0	9.1	1	21			
					Bottom	4.6	0.3	52	27.7	27.7	8.2	8.2	28.9	28.9	93.0	92.6	6.2	6.2	9.0	1	20			
					Surface	1.0	0.2	120	28.4	28.4	8.1	8.1	30.2	30.2	84.5	84.6	5.6		4.7		18			
					Surface	1.0	0.2	124	28.4	28.4	8.1	8.1	30.2	30.2	84.6	84.6	5.6	5.6	4.5	1	18			
SR3	Rainy	Moderate	13:38	9.2	Middle	4.6	0.1	122	28.2	28.2	8.2	8.2	31.2	31.2	85.0	85.1	5.6	5.0	9.0	9.0	18	18	822130	807556
SKS	ixality	Woderate	13.30	9.2	Middle	4.6	0.2	115	28.2	20.2	8.2	0.2	31.2	31.2	85.1	03.1	5.6		9.0	9.0	19	10	022130	007330
					Bottom	8.2	0.2	114	28.1	28.1	8.2	8.2	32.2	32.2	87.2	87.4	5.7	5.7	13.4		16			
					Bottom	8.2	0.2	121	28.1	20.1	8.2	0.2	32.2	52.2	87.5	07.4	5.7	5.1	13.1		16			
					Surface	1.0	0.0	80	28.0	28.0	8.2	8.2	32.8	32.8	89.7	89.7	5.9		7.8		9			
					Gundoc	1.0	0.1	87	28.0	20.0	8.2	0.2	32.8	02.0	89.6	00.7	5.8	5.8	8.0		10			
SR4A	Rainy	Moderate	14:53	8.8	Middle	4.4	0.0	60	27.9	27.9	8.2	8.2	32.9	32.9	88.5	88.6	5.8		11.0	10.5	10	9	817171	807825
	. ,					4.4	0.1	59	27.9		8.2	-	32.9		88.7		5.8		11.2		9		-	
					Bottom	7.8	0.0	72	27.9	27.9	8.2	8.2	32.9	32.9	90.8	91.1	5.9	6.0	12.5	4	9			
			<u> </u>			7.8	0.0	68	27.9		8.2		32.9		91.3		6.0		12.6	<u> </u>	8			
					Surface	1.0	-	-	27.9	27.9	8.2	8.2	28.7	28.7	88.3	88.4	5.9		7.1	1	8			
						1.0	-	-	27.9		8.2		28.8		88.4		5.9	5.9	7.2	4	9			
SR8	Fine	Moderate	13:42	5.4	Middle	-	-	-	-	-	-	-	-	-	-	-	-		-	7.8	-	10	820402	811624
						-	-	-	- 07.7		-	<del>                                     </del>	-		- 04.5		- 0.4		- 0.4	1	- 40			
					Bottom	4.4 4.4	-	-	27.7 27.8	27.8	8.2	8.2	29.0	28.9	91.5	91.6	6.1 6.1	6.1	8.4 8.5	1	12 12			
DA: Donth Aver					1	4.4	-	-	27.8		8.2		28.9		91.7		6.1		8.5		12			

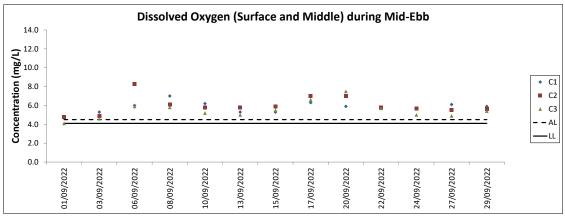
Water Quality Monitoring Results on 29 September 22 during Mid-Flood Tide

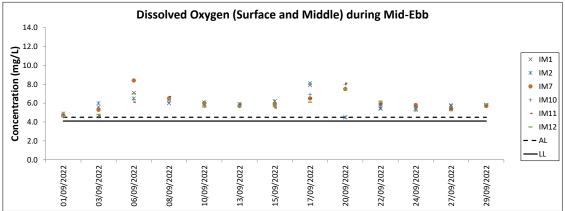
water Qua	ity wonit	oring Resu	iits on		29 September 22	auring wia-	rioou ii	ue																
Monitoring	Weather	Sea	Sampling	Water	Compline Death	- (m)	Current Speed	Current	Water Te	emperature (°C)	pł	Н	Salin	ity (ppt)		aturation (%)	Disso Oxy		Turbidity	(NTU)	Suspende (mg		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling Depti	1 (M)	(m/s)	Direction	Value	Average	Value A	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					0 /	1.0	0.5	41	27.9	07.0	8.2		33.6		88.5	00.5	5.8		12.7		9			
					Surface	1.0	0.5	34	27.9	27.9	8.2	8.2	33.6	33.6	88.5	88.5	5.8	1	12.9	1	8			
						4.4	0.5	20	27.9	07.0	8.2		33.6		88.5		5.8	5.8	13.2		9		0.150.40	
C1	Cloudy	Moderate	09:33	8.8	Middle	4.4	0.5	14	27.9	27.9	8.2	8.2	33.6	33.6	88.6	88.6	5.8	1	13.3	14.0	10	11	815618	804249
					5	7.8	0.4	44	27.8	27.0	8.2		33.7		90.1		5.9		16.0	1	13			
					Bottom	7.8	0.5	49	27.8	27.8	8.2	8.2	33.7	33.7	90.5	90.3	5.9	5.9	15.8	Ī	14			
					0 /	1.0	0.5	5	28.4	00.4	8.1		29.8		82.4	00.5	5.4		9.2		12			
					Surface	1.0	0.5	3	28.4	28.4	8.1	8.1	29.8	29.8	82.6	82.5	5.4		9.2	1	11			
00	01	Madaala	40.40	40.0	Middle	5.3	0.4	8	28.1	00.4	8.1	0.4	31.3	04.4	86.8	87.0	5.7	5.6	8.8	10.5	14	13	825687	000004
C2	Cloudy	Moderate	10:40	10.6	Middle	5.3	0.5	9	28.1	28.1	8.1	8.1	31.5	31.4	87.1	87.0	5.7	1	8.8	10.5	14	13	825687	806934
					Bottom	9.6	0.5	9	28.0	28.0	8.2	8.2	32.5	32.5	88.0	88.1	5.8	5.8	13.2	1	15			
					Bottom	9.6	0.5	11	28.0	28.0	8.2	8.2	32.5	32.5	88.2	88.1	5.8	5.8	13.8		14			
					Surface	1.0	0.5	252	27.7	27.7	8.0	8.0	28.7	28.7	81.7	81.7	5.5		7.1		17			
					Surface	1.0	0.4	250	27.7	21.1	8.0	6.0	28.7	20.7	81.7	01.7	5.5	5.5	7.1		18			
C3	Misty	Moderate	08:57	9.8	Middle	4.9	0.5	278	27.7	27.7	8.0	8.0	28.7	28.7	81.8	81.9	5.5	3.3	8.4	8.3	19	19	822103	817809
03	iviloty	Woderate	00.57	3.0	Middle	4.9	0.5	281	27.7	21.1	8.0	0.0	28.7	20.7	81.9	01.3	5.5		8.3	0.5	19	13	022103	017003
					Bottom	8.8	0.6	272	27.7	27.7	8.0	8.0	28.7	28.7	82.0	82.0	5.5	5.5	9.4		19			
					Bottom	8.8	0.5	267	27.7	27.7		0.0	28.7	20.7	82.0	02.0	5.5	0.0	9.5		19			
					Surface	1.0	0.3	21	28.0	28.0	8.2 8.2	8.2	32.4	32.4	89.0	89.0	5.8		8.9		8			
						1.0	0.3	21	28.0				32.4		88.9		5.8	5.8	9.0		8			
IM1	Cloudy	Moderate	09:48	7.2	Middle	3.6	0.3	29	28.0	28.0	8.2	8.2	32.7	32.8	87.6	87.7	5.7		10.9	10.0	8	8	818359	806457
	,					3.6	0.3	32	28.0		8.2		32.8		87.7		5.7		11.0		8			
					Bottom	6.2	0.3	21	27.9	27.9	8.2	8.2	33.1	33.1	88.8	89.0	5.8	5.8	10.2		9			
						6.2	0.3	21	27.9		8.2		33.1		89.1		5.8		10.3		8			
					Surface	1.0	0.4	13	28.0	28.0	8.2	8.2	32.4	32.4	88.2	88.1	5.8	ļ	9.4		10			
						1.0	0.5	7	28.0		8.2		32.4		88.0		5.8	5.8	9.8		9			
IM2	Cloudy	Moderate	09:53	7.2	Middle	3.6 3.6	0.4	3 357	28.0 28.0	28.0	8.2	8.2	32.8 32.8	32.8	88.1 88.2	88.2	5.8 5.8	ł	12.0	11.4	9	9	819191	806240
						6.2	0.4	29	27.9		8.2						5.8		12.1 12.6	-	7			
					Bottom	6.2	0.4	25	27.9	27.9	8.2	8.2	32.9 32.9	32.9	88.5 88.7	88.6	5.8	5.8	12.6		8			
						1.0	0.4	0	28.3		8.1						5.6	<u> </u>	7.7	1	10			
					Surface	1.0	0.3	4	28.3	28.3	8.1	8.1	30.3	30.4	85.5 85.7	85.6	5.6		7.6	1	11			
						4.3	0.3	21	28.0		8.2		31.9		86.5		5.7	5.7	16.5	1	10			
IM7	Cloudy	Moderate	10:15	8.5	Middle	4.3	0.3	14	28.0	28.0	8.2	8.2	31.9	31.9	86.5	86.5	5.7	i	16.1	12.8	10	10	821344	806813
					_	7.5	0.3	355	28.0		8.2		32.1		87.3		5.7		14.6	1	10			
					Bottom	7.5	0.3	359	28.0	28.0	8.2	8.2	32.1	32.1	87.6	87.5	5.7	5.7	14.3	1	9			
					l	1.0	0.0	555	20.0		0.2		UZ. 1		01.0		5.7		17.5	1	J			

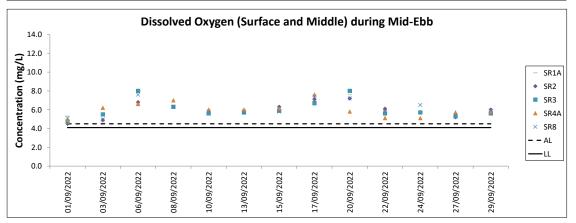
DA: Depth-Averaged

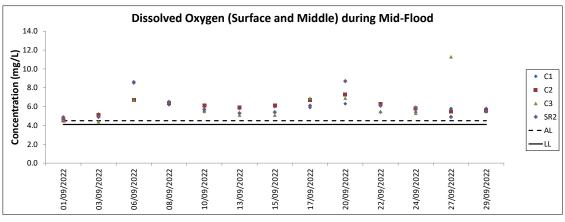
Water Quality Monitoring Results on 29 September 22 during Mid-Flood Tide

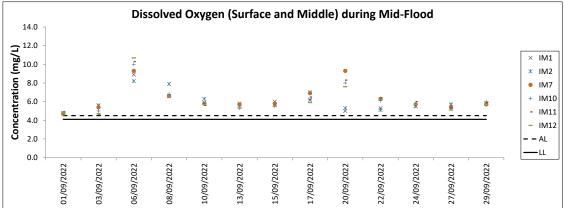
water Quar	ity into int	ornig reduc			29 September 22	auring mia	1 1000 1	uc																
Monitoring	Weather	Sea	Sampling	Water			Current Speed	Current	Water Te	emperature (°C)		рН	Salin	ity (ppt)		aturation (%)	Disso Oxy	olved rgen	Turbidity	(NTU)	Suspende (mg/		Coordinate	Coordinate
Station	Condition	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)
	<u> </u>		1			1.0	0.4	306	27.7		8.1		28.9		87.5		5.9		6.3	l	19			
					Surface	1.0	0.4	310	27.7	27.7	8.1	8.1	28.9	28.9	87.7	87.6	5.9	1	6.4	1	18			
						4.0	0.5	278	27.7		8.1		28.9		88.9		6.0	6.0	7.9	1	10			
IM10	Misty	Moderate	10:01	8.0	Middle	4.0	0.5	273	27.7	27.7	8.1	8.1	28.9	28.9	89.2	89.1	6.0	1	7.9	7.6	12	13	822232	809848
					_	7.0	0.5	278	27.7		8.1		28.9		91.1		6.1		8.5	1	10			
					Bottom	7.0	0.5	282	27.7	27.7	8.1	8.1	28.9	28.9	92.3	91.7	6.2	6.2	8.5	1	10			
						1.0	0.5	288	27.7		8.1		28.9		86.4		5.8		6.1		10			
					Surface	1.0	0.5	287	27.7	27.7	8.1	8.1	28.9	28.9	86.9	86.7	5.8		6.2	1	10			
18444	NAT- C		00.50	0.4	A At all all a	4.2	0.5	302	27.7	07.7	8.1	0.4	28.9	00.0	87.7	07.0	5.9	5.9	7.6	7.0	10		004404	040555
IM11	Misty	Moderate	09:56	8.4	Middle	4.2	0.5	301	27.7	27.7	8.1	8.1	28.9	28.9	88.0	87.9	5.9	i	7.5	7.2	10	11	821494	810555
					5	7.4	0.5	270	27.7		8.1		28.9		89.1		6.0		8.0	1	12			
					Bottom	7.4	0.5	273	27.7	27.7	8.1	8.1	28.9	28.9	89.5	89.3	6.0	6.0	8.1	Ī	11			
	ĺ				0.1	1.0	0.5	293	27.7	07.7	8.1		29.0		84.5	0.4.5	5.7		7.9		8			
					Surface	1.0	0.6	299	27.7	27.7	8.1	8.1	29.0	29.0	84.5	84.5	5.7		7.9	Ī	9			
						4.5	0.5	290	27.7	07.7	8.1		29.0		85.0	05.4	5.7	5.7	8.7	1	10	4.0	004470	044540
IM12	Misty	Moderate	09:50	9.0	Middle	4.5	0.6	286	27.7	27.7	8.1	8.1	29.0	29.0	85.1	85.1	5.7	i	8.8	8.6	10	10	821176	811516
					5 "	8.0	0.5	272	27.7	07.7	8.1		29.0		85.8		5.8		9.0	1	12			
					Bottom	8.0	0.6	272	27.7	27.7	8.1	8.1	29.0	29.0	86.5	86.2	5.8	5.8	9.1	1	11			
					0.1	1.0	0.0	194	27.6	07.0	8.1		28.6		86.3		5.8		7.4		11			
					Surface	1.0	0.0	196	27.6	27.6	8.1	8.1	28.6	28.6	86.9	86.6	5.8		7.4	Ī	10			
SR1A	Minter	Madazata	00.00	F.C.	Middle	2.8	-	221	-		-		-		-		-	5.8	-	1 ,	-	40	040070	040050
SKIA	Misty	Moderate	09:28	5.6	Middle	2.8	-	216	-	-	-	1 -	-	-	-	-	-	1	-	7.8	-	10	819979	812656
					Datters	4.6	-	217	27.6	27.6	8.1	0.4	28.7	20.7	91.2	91.9	6.1	6.2	8.2	1	9			
					Bottom	4.6	0.0	221	27.6	27.6	8.1	8.1	28.7	28.7	92.6	91.9	6.2	6.2	8.3	1	10			
					Surface	1.0	0.1	236	27.7	27.7	8.0	8.0	28.7	28.7	82.4	82.4	5.5		7.0		9			
					Surface	1.0	0.1	229	27.7	21.1	8.0	8.0	28.7	28.7	82.4	82.4	5.5	5.5	7.1	1	8			
SR2	Misty	Moderate	09:17	5.8	Middle	-	0.1	239	-		-		-		-		-	5.5	-	7.6	-	8	821465	814185
SKZ	iviisty	Moderate	09.17	5.6	Middle	-	0.1	236	-	-	-	1	-	-	-	-	-	1	-	7.6	-	0	021400	014100
					Bottom	4.8	0.2	230	27.7	27.7	8.0	8.0	28.7	28.7	83.3	83.5	5.6	5.6	8.1		7			
					Bottom	4.8	0.2	224	27.7	21.1	8.0	0.0	28.7	20.7	83.7	03.3	5.6	3.0	8.2		8			
					Surface	1.0	0.5	347	28.4	28.4	8.1	8.1	29.7	29.7	82.2	82.3	5.4		5.7		19			
					Sulface	1.0	0.5	349	28.4	20.4	8.1	0.1	29.7	25.1	82.3	02.5	5.4	5.6	5.8		18			
SR3	Cloudy	Moderate	10:23	8.8	Middle	4.4	0.5	355	28.1	28.1	8.1	8.1	31.5	31.5	86.6	86.7	5.7	3.0	11.3	9.6	18	18	822153	807574
ONO	Cloudy	Woderate	10.23	0.0	ivildale	4.4	0.5	351	28.1	20.1	8.1	0.1	31.6	31.3	86.7	00.7	5.7		11.5	3.0	17	10	022100	00/3/4
					Bottom	7.8	0.5	325	28.0	28.0	8.1	8.1	32.1	32.1	87.4	87.6	5.7	5.8	11.9		16			
					Bottom	7.8	0.5	328	28.0	20.0	8.1	0.1	32.1	02.1	87.8	07.0	5.8	0.0	11.5		17			
					Surface	1.0	0.0	162	27.9	27.9	8.0	8.0	32.4	32.4	86.5	86.5	5.7		8.2		10			
					Gundec	1.0	0.0	163	27.9	27.0	8.0	0.0	32.4	02.7	86.5	00.0	5.7	5.7	8.4		10			
SR4A	Cloudy	Moderate	09:14	8.2	Middle	4.1	-	181	27.8	27.8	8.0	8.0	32.8	32.8	86.8	86.8	5.7	0	11.9	11.1	12	12	817174	807790
						4.1	0.0	186	27.8		8.0		32.8		86.8		5.7		11.4	1	12			
					Bottom	7.2	0.0	184	27.8	27.8	8.0	8.0	33.2	33.2	87.6	87.8	5.7	5.8	13.7		13			
			1			7.2	0.0	180	27.8	-	8.0		33.2		88.0		5.8		13.1		12			
	1				Surface	1.0	-	-	27.8	27.8	8.1	8.1	28.6	28.7	89.6	89.8	6.0	1	7.5	1	9			
						1.0	-	-	27.8	-	8.1		28.7		89.9		6.0	6.0	7.5	1	9			
SR8	Misty	Moderate	09:46	5.6	Middle	-	-	-	-	-	-	4 -	-	_	-	-	-		-	7.8	-	10	820391	811604
						-	-	-	-		-	1	-		-		-		-	4	-			
					Bottom	4.6	-	-	27.7	27.7	8.1	8.1	28.9	28.9	93.8	93.8	6.3	6.3	8.1	1	10			
						4.6	-	-	27.7		8.1	1	28.9		93.8		6.3		8.2		10			

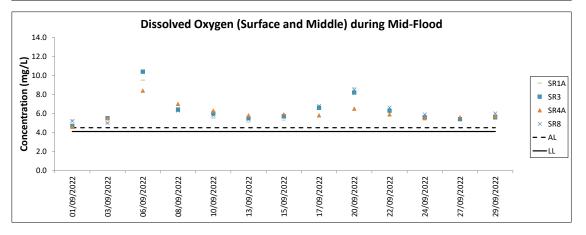


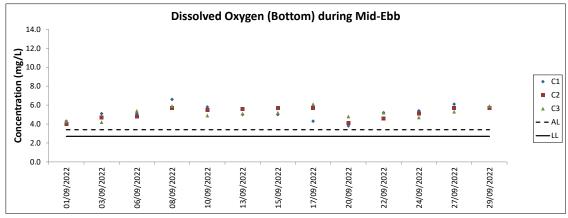


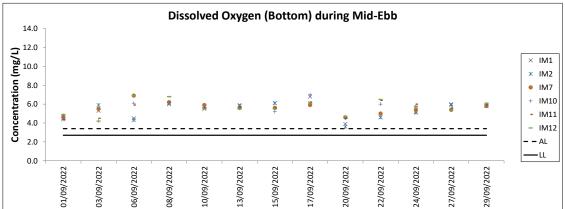


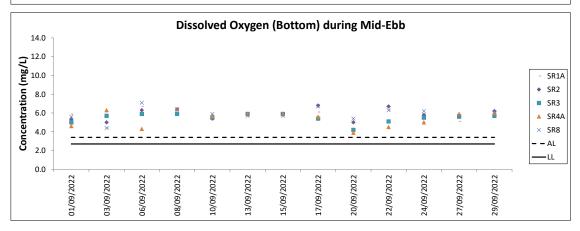


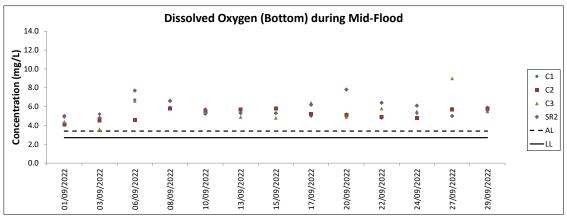


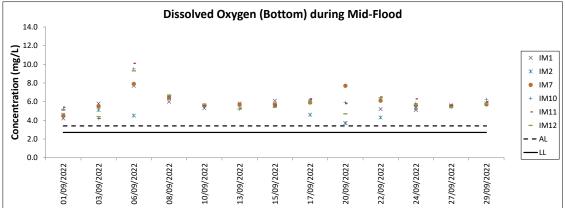


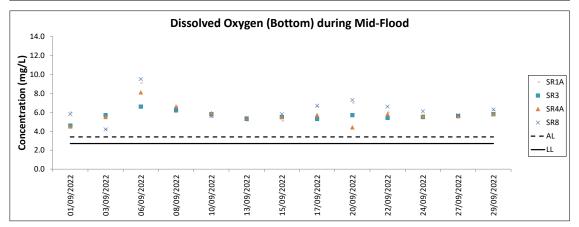


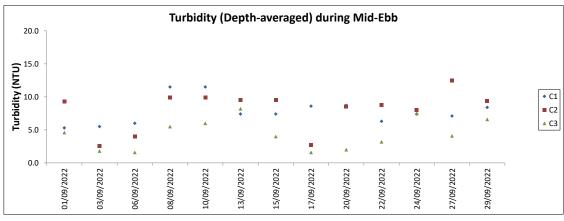


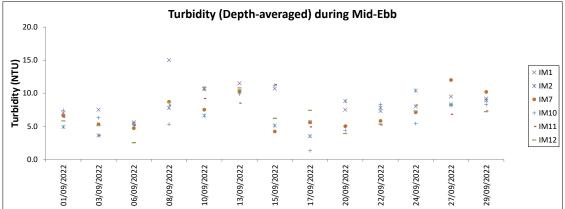


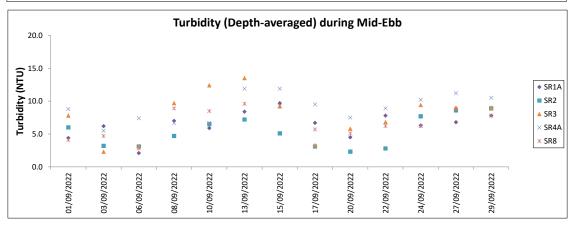


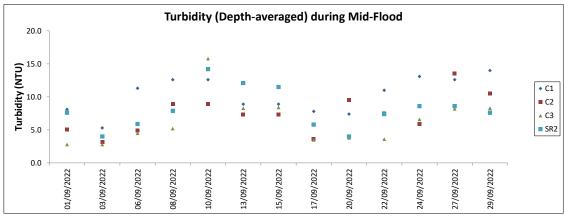


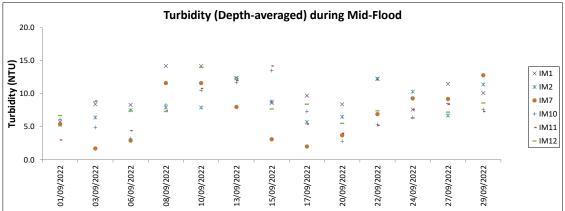


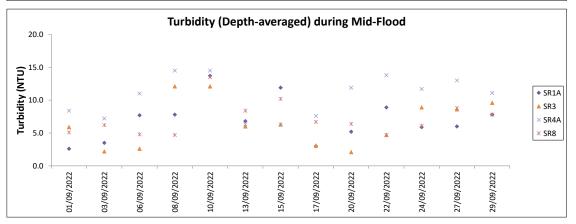


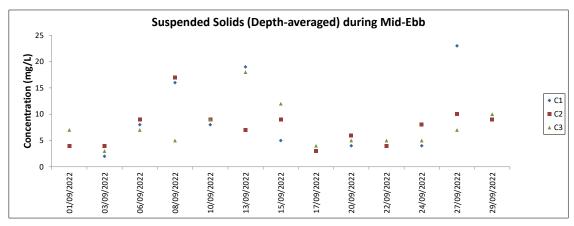


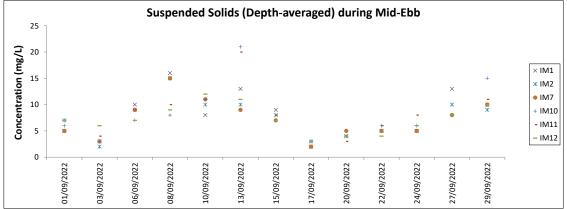


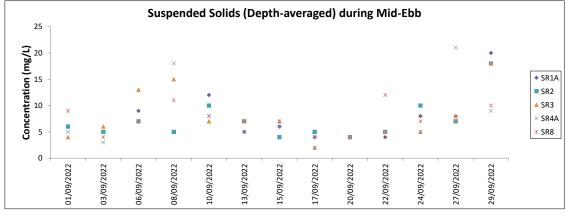


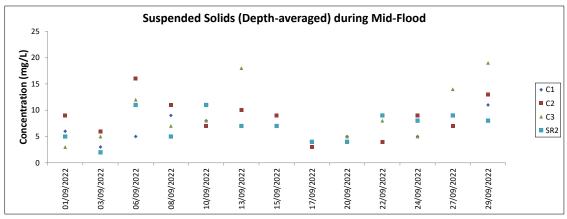


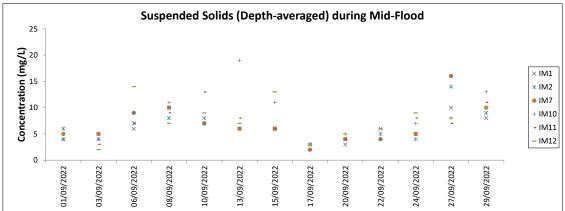


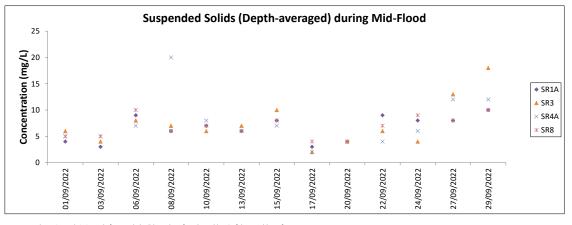












The Action and Limit Level of suspended solids can be referred to Table 4.2 of the monthly EM&A report. Major site activities carried out during the reporting period are summarized in Section 1.4 of the monthly EM&A report. Weather conditions during monitoring are presented in the data tables above.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

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

### **Survey Effort Data**

B 4 T T	4554	B=4	I/M OF A DOUBLE	05400:	VE00=:	T\/D=	D/C
DATE	AREA	BEAU	KM SEARCHED	SEASON	VESSEL	TYPE	P/S
06-Jul-22	NEL	2	30.220	SUMMER	32166	3RS ET	P
06-Jul-22	NEL	3	6.900	SUMMER	32166	3RS ET	Р
06-Jul-22	NEL	2	7.080	SUMMER	32166	3RS ET	S
06-Jul-22	NEL	3	3.200	SUMMER	32166	3RS ET	S
08-Jul-22	AW	2	4.940	SUMMER	32166	3RS ET	Р
08-Jul-22	WL	2	8.670	SUMMER	32166	3RS ET	Р
08-Jul-22	WL	3	9.126	SUMMER	32166	3RS ET	Р
08-Jul-22	WL	4	1.270	SUMMER	32166	3RS ET	Р
08-Jul-22	WL	2	3.690	SUMMER	32166	3RS ET	S
08-Jul-22	WL	3	3.935	SUMMER	32166	3RS ET	S
08-Jul-22	WL	4	2.300	SUMMER	32166	3RS ET	S
11-Jul-22	AW	2	5.010	SUMMER	32166	3RS ET	Р
11-Jul-22	WL	2	11.940	SUMMER	32166	3RS ET	Р
11-Jul-22	WL	3	5.332	SUMMER	32166	3RS ET	Р
11-Jul-22	WL	2	5.710	SUMMER	32166	3RS ET	S
11-Jul-22	WL	3	4.068	SUMMER	32166	3RS ET	S
12-Jul-22	SWL	2	21.251	SUMMER	32166	3RS ET	Р
12-Jul-22	SWL	3	22.070	SUMMER	32166	3RS ET	Р
12-Jul-22	SWL	2	7.492	SUMMER	32166	3RS ET	S
12-Jul-22	SWL	3	5.587	SUMMER	32166	3RS ET	S
12-Jul-22	SWL	4	1.240	SUMMER	32166	3RS ET	S
13-Jul-22	SWL	2	41.213	SUMMER	32166	3RS ET	Р
13-Jul-22	SWL	3	6.400	SUMMER	32166	3RS ET	Р
13-Jul-22	SWL	2	13.895	SUMMER	32166	3RS ET	S
13-Jul-22	SWL	3	1.700	SUMMER	32166	3RS ET	S
15-Jul-22	NWL	2	51.300	SUMMER	32166	3RS ET	Р
15-Jul-22	NWL	3	13.500	SUMMER	32166	3RS ET	Р
15-Jul-22	NWL	2	9.600	SUMMER	32166	3RS ET	S
15-Jul-22	NWL	3	2.000	SUMMER	32166	3RS ET	S
19-Jul-22	NWL	2	34.900	SUMMER	32166	3RS ET	Р
19-Jul-22	NWL	3	29.500	SUMMER	32166	3RS ET	Р
19-Jul-22	NWL	2	5.700	SUMMER	32166	3RS ET	S
19-Jul-22	NWL	3	5.700	SUMMER	32166	3RS ET	S
25-Jul-22	NEL	2	32.950	SUMMER	32166	3RS ET	Р
25-Jul-22	NEL	3	4.480	SUMMER	32166	3RS ET	Р
25-Jul-22	NEL	2	8.410	SUMMER	32166	3RS ET	S
25-Jul-22	NEL	3	0.960	SUMMER	32166	3RS ET	S
02-Aug-22	SWL	1	1.000	SUMMER	32166	3RS ET	Р
02-Aug-22	SWL	2	49.360	SUMMER	32166	3RS ET	P
02-Aug-22	SWL	1	0.900	SUMMER	32166	3RS ET	S
02-Aug-22	SWL	2	13.830	SUMMER	32166	3RS ET	S
03-Aug-22	SWL	2	37.908	SUMMER	32166	3RS ET	Р
03-Aug-22	SWL	3	16.069	SUMMER	32166	3RS ET	P
03-Aug-22	SWL	2	13.392	SUMMER	32166	3RS ET	S
03-Aug-22	SWL	3	2.121	SUMMER	32166	3RS ET	S
00-Aug-22	OVVL	J	2.121	COMMINICIN	JZ 100	JIVO L I	

DATE	AREA	BEAU	KM SEARCHED	SEASON	VESSEL	TYPE	P/S
05-Aug-22	NEL	2	32.840	SUMMER	32166	3RS ET	Р
05-Aug-22	NEL	3	4.400	SUMMER	32166	3RS ET	Р
05-Aug-22	NEL	2	9.760	SUMMER	32166	3RS ET	S
11-Aug-22	NEL	2	25.380	SUMMER	32166	3RS ET	Р
11-Aug-22	NEL	3	11.030	SUMMER	32166	3RS ET	P
11-Aug-22	NEL	2	5.090	SUMMER	32166	3RS ET	S
11-Aug-22	NEL	3	5.300	SUMMER	32166	3RS ET	S
12-Aug-22	NWL	2	59.600	SUMMER	32166	3RS ET	Р
12-Aug-22	NWL	3	4.100	SUMMER	32166	3RS ET	<u>'</u> Р
12-Aug-22 12-Aug-22	NWL	2	12.200	SUMMER	32166	3RS ET	S
16-Aug-22	NWL	1	2.500	SUMMER	32166	3RS ET	P
<u> </u>	NWL	2	61.700	SUMMER	32166	3RS ET	P
16-Aug-22			+				
16-Aug-22	NWL	1	1.000	SUMMER	32166	3RS ET	S
16-Aug-22	NWL	2	10.600	SUMMER	32166	3RS ET	S
22-Aug-22	AW	2	4.640	SUMMER	32166	3RS ET	Р
22-Aug-22	WL	2	14.811	SUMMER	32166	3RS ET	P -
22-Aug-22	WL	3	3.683	SUMMER	32166	3RS ET	Р
22-Aug-22	WL	2	9.049	SUMMER	32166	3RS ET	S
22-Aug-22	WL	3	0.380	SUMMER	32166	3RS ET	S
23-Aug-22	WL	2	15.132	SUMMER	32166	3RS ET	Р
23-Aug-22	WL	3	2.753	SUMMER	32166	3RS ET	Р
23-Aug-22	WL	2	8.498	SUMMER	32166	3RS ET	S
23-Aug-22	WL	3	1.397	SUMMER	32166	3RS ET	S
23-Aug-22	AW	2	4.810	SUMMER	32166	3RS ET	Р
05-Sep-22	NWL	2	4.260	AUTUMN	32166	3RS ET	Р
05-Sep-22	NWL	3	59.410	AUTUMN	32166	3RS ET	Р
05-Sep-22	NWL	3	11.830	AUTUMN	32166	3RS ET	S
06-Sep-22	SWL	2	32.266	AUTUMN	32166	3RS ET	Р
06-Sep-22	SWL	3	14.290	AUTUMN	32166	3RS ET	Р
06-Sep-22	SWL	4	4.930	AUTUMN	32166	3RS ET	Р
06-Sep-22	SWL	2	9.989	AUTUMN	32166	3RS ET	S
06-Sep-22	SWL	3	3.100	AUTUMN	32166	3RS ET	S
06-Sep-22	SWL	4	1.060	AUTUMN	32166	3RS ET	S
08-Sep-22	NEL	2	37.420	AUTUMN	32166	3RS ET	Р
08-Sep-22	NEL	2	9.580	AUTUMN	32166	3RS ET	S
09-Sep-22	NWL	2	60.720	AUTUMN	32166	3RS ET	Р
09-Sep-22	NWL	2	12.700	AUTUMN	32166	3RS ET	S
14-Sep-22	SWL	2	39.365	AUTUMN	32166	3RS ET	Р
14-Sep-22	SWL	3	14.270	AUTUMN	32166	3RS ET	Р
14-Sep-22	SWL	2	8.365	AUTUMN	32166	3RS ET	S
14-Sep-22	SWL	3	7.270	AUTUMN	32166	3RS ET	S
19-Sep-22	AW	2	4.810	AUTUMN	32166	3RS ET	Р
19-Sep-22	WL	2	15.142	AUTUMN	32166	3RS ET	P
19-Sep-22	WL	3	4.527	AUTUMN	32166	3RS ET	P
19-Sep-22	WL	2	7.648	AUTUMN	32166	3RS ET	S
19-Sep-22	WL	3	1.973	AUTUMN	32166	3RS ET	S
20-Sep-22	AW	3	4.890	AUTUMN	32166	3RS ET	P
20-Sep-22 20-Sep-22	WL	2	9.992	AUTUMN	32166	3RS ET	Р
							P
20-Sep-22	WL	3	7.720	AUTUMN	32166	3RS ET	٢

DATE	AREA	BEAU	KM SEARCHED	SEASON	VESSEL	TYPE	P/S
20-Sep-22	WL	4	2.060	AUTUMN	32166	3RS ET	Р
20-Sep-22	WL	2	7.128	AUTUMN	32166	3RS ET	S
20-Sep-22	WL	3	3.000	AUTUMN	32166	3RS ET	S
20-Sep-22	WL	4	1.100	AUTUMN	32166	3RS ET	S
21-Sep-22	NEL	2	1.300	AUTUMN	32166	3RS ET	Р
21-Sep-22	NEL	3	29.290	AUTUMN	32166	3RS ET	Р
21-Sep-22	NEL	4	7.080	AUTUMN	32166	3RS ET	Р
21-Sep-22	NEL	3	8.100	AUTUMN	32166	3RS ET	S
21-Sep-22	NEL	4	0.930	AUTUMN	32166	3RS ET	S

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

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

### Sighting Data

DATE	STG#	TIME	CWD/FP	GP SZ	AREA	BEAU	PSD	EFFORT	TYPE	DEC LAT	DEC LON	SEASON	BOAT ASSOC.	P/S
08-Jul-22	1	1100	CWD	1	WL	2	301	ON	3RS ET	22.2417	113.8435	SUMMER	NONE	Р
08-Jul-22	2	1148	CWD	7	WL	3	46	ON	3RS ET	22.2152	113.8332	SUMMER	NONE	Р
08-Jul-22	3	1209	CWD	3	WL	3	187	ON	3RS ET	22.2104	113.8392	SUMMER	NONE	S
08-Jul-22	4	1242	CWD	13	WL	3	747	ON	3RS ET	22.1956	113.8317	SUMMER	NONE	Р
11-Jul-22	1	1037	CWD	5	WL	2	1040	ON	3RS ET	22.2603	113.8451	SUMMER	NONE	Р
11-Jul-22	2	1135	CWD	6	WL	3	198	ON	3RS ET	22.2147	113.8204	SUMMER	NONE	S
11-Jul-22	3	1225	CWD	1	WL	3	48	ON	3RS ET	22.1964	113.8289	SUMMER	NONE	S
11-Jul-22	4	1258	CWD	5	WL	3	69	ON	3RS ET	22.1868	113.8383	SUMMER	NONE	Р
12-Jul-22	1	1019	CWD	1	SWL	2	78	ON	3RS ET	22.2218	113.9360	SUMMER	PURSE SEINER	Р
12-Jul-22	2	1034	CWD	4	SWL	2	2058	ON	3RS ET	22.2081	113.9362	SUMMER	PURSE SEINER	Р
12-Jul-22	3	1157	CWD	5	SWL	2	155	ON	3RS ET	22.1945	113.9275	SUMMER	NONE	Р
12-Jul-22	4	1220	CWD	3	SWL	2	161	ON	3RS ET	22.2054	113.9230	SUMMER	NONE	S
12-Jul-22	5	1241	CWD	1	SWL	2	N/A	OFF	3RS ET	22.2019	113.9177	SUMMER	NONE	Р
12-Jul-22	6	1245	CWD	1	SWL	2	188	ON	3RS ET	22.1950	113.9180	SUMMER	NONE	Р
12-Jul-22	7	1345	CWD	1	SWL	2	162	ON	3RS ET	22.1780	113.9049	SUMMER	NONE	S
12-Jul-22	8	1354	CWD	3	SWL	3	1211	ON	3RS ET	22.1789	113.9044	SUMMER	NONE	S
12-Jul-22	9	1425	CWD	1	SWL	2	131	ON	3RS ET	22.1976	113.8969	SUMMER	NONE	Р
12-Jul-22	10	1440	CWD	1	SWL	2	48	ON	3RS ET	22.1891	113.8969	SUMMER	NONE	Р
12-Jul-22	11	1518	CWD	1	SWL	3	173	ON	3RS ET	22.1612	113.8877	SUMMER	NONE	Р
12-Jul-22	12	1537	CWD	3	SWL	3	136	ON	3RS ET	22.1871	113.8872	SUMMER	NONE	Р
12-Jul-22	13	1604	CWD	2	SWL	2	809	ON	3RS ET	22.2025	113.8780	SUMMER	NONE	Р
12-Jul-22	14	1626	CWD	1	SWL	2	255	ON	3RS ET	22.1867	113.8786	SUMMER	NONE	Р
12-Jul-22	15	1650	CWD	1	SWL	3	193	ON	3RS ET	22.1642	113.8686	SUMMER	NONE	Р
12-Jul-22	16	1705	CWD	1	SWL	3	29	ON	3RS ET	22.1702	113.8686	SUMMER	NONE	Р
13-Jul-22	1	1037	FP	3	SWL	2	308	ON	3RS ET	22.1938	113.9367	SUMMER	NONE	Р
13-Jul-22	2	1113	FP	4	SWL	2	93	ON	3RS ET	22.1658	113.9276	SUMMER	NONE	Р
13-Jul-22	3	1231	CWD	1	SWL	2	141	ON	3RS ET	22.1811	113.9037	SUMMER	NONE	S
13-Jul-22	4	1254	CWD	5	SWL	2	216	ON	3RS ET	22.1973	113.9083	SUMMER	PURSE SEINER	Р
13-Jul-22	5	1332	CWD	1	SWL	2	173	ON	3RS ET	22.1813	113.8982	SUMMER	NONE	Р
13-Jul-22	6	1350	CWD	4	SWL	2	402	ON	3RS ET	22.1746	113.8972	SUMMER	NONE	Р
13-Jul-22	7	1445	CWD	2	SWL	2	161	ON	3RS ET	22.1859	113.8879	SUMMER	NONE	Р
13-Jul-22	8	1547	CWD	2	SWL	2	52	ON	3RS ET	22.1617	113.8699	SUMMER	NONE	S

DATE	STG#	TIME	CWD/FP	GP SZ	AREA	BEAU	PSD	EFFORT	TYPE	DEC LAT	DEC LON	SEASON	BOAT ASSOC.	P/S
13-Jul-22	9	1610	CWD	1	SWL	2	277	ON	3RS ET	22.1933	113.8677	SUMMER	NONE	Р
13-Jul-22	10	1651	CWD	1	SWL	2	89	ON	3RS ET	22.1874	113.8492	SUMMER	NONE	Р
02-Aug-22	1	1432	CWD	2	SWL	2	59	ON	3RS ET	22.1841	113.8680	SUMMER	NONE	Р
02-Aug-22	2	1507	CWD	15	SWL	2	80	ON	3RS ET	22.1795	113.8497	SUMMER	PURSE SEINER	Р
03-Aug-22	1	1311	FP	1	SWL	3	61	ON	3RS ET	22.1528	113.8974	SUMMER	NONE	Р
03-Aug-22	2	1433	CWD	4	SWL	2	194	ON	3RS ET	22.1988	113.8683	SUMMER	NONE	Р
03-Aug-22	3	1522	CWD	1	SWL	2	21	ON	3RS ET	22.1893	113.8493	SUMMER	NONE	Р
22-Aug-22	1	1039	CWD	1	WL	2	42	ON	3RS ET	22.2615	113.8551	SUMMER	NONE	S
22-Aug-22	2	1125	CWD	3	WL	2	345	ON	3RS ET	22.2418	113.8320	SUMMER	NONE	Р
22-Aug-22	3	1136	CWD	1	WL	2	10	ON	3RS ET	22.2418	113.8295	SUMMER	NONE	Р
22-Aug-22	4	1212	CWD	4	WL	2	19	ON	3RS ET	22.2144	113.8309	SUMMER	NONE	Р
22-Aug-22	5	1246	CWD	3	WL	2	313	ON	3RS ET	22.2007	113.8245	SUMMER	NONE	S
22-Aug-22	6	1312	CWD	1	WL	3	11	ON	3RS ET	22.1869	113.8327	SUMMER	NONE	Р
23-Aug-22	1	1118	CWD	3	WL	2	98	ON	3RS ET	22.2326	113.8360	SUMMER	NONE	Р
23-Aug-22	2	1141	CWD	8	WL	2	416	ON	3RS ET	22.2226	113.8353	SUMMER	NONE	Р
23-Aug-22	3	1206	CWD	1	WL	2	40	ON	3RS ET	22.2141	113.8262	SUMMER	NONE	Р
23-Aug-22	4	1226	CWD	1	WL	2	1368	ON	3RS ET	22.2059	113.8236	SUMMER	NONE	Р
23-Aug-22	5	1242	CWD	9	WL	2	363	ON	3RS ET	22.1956	113.8350	SUMMER	NONE	Р
23-Aug-22	6	1317	CWD	9	WL	3	251	ON	3RS ET	22.1873	113.8356	SUMMER	NONE	Р
06-Sep-22	1	1028	FP	3	SWL	2	143	ON	3RS ET	22.2171	113.9358	AUTUMN	NONE	Р
06-Sep-22	2	1036	FP	2	SWL	2	275	ON	3RS ET	22.2029	113.9361	AUTUMN	NONE	Р
06-Sep-22	3	1039	FP	5	SWL	2	370	ON	3RS ET	22.1981	113.9363	AUTUMN	NONE	Р
06-Sep-22	4	1046	FP	14	SWL	2	235	ON	3RS ET	22.1842	113.9364	AUTUMN	NONE	Р
06-Sep-22	5	1048	FP	5	SWL	2	157	ON	3RS ET	22.1828	113.9364	AUTUMN	NONE	Р
06-Sep-22	6	1056	FP	1	SWL	2	147	ON	3RS ET	22.1686	113.9358	AUTUMN	NONE	Р
06-Sep-22	7	1100	FP	2	SWL	2	137	ON	3RS ET	22.1624	113.9360	AUTUMN	NONE	Р
06-Sep-22	8	1103	FP	3	SWL	2	22	ON	3RS ET	22.1594	113.9357	AUTUMN	NONE	Р
06-Sep-22	9	1120	CWD	2	SWL	2	113	ON	3RS ET	22.1563	113.9275	AUTUMN	NONE	Р
06-Sep-22	10	1135	FP	9	SWL	2	32	ON	3RS ET	22.1707	113.9277	AUTUMN	NONE	Р
06-Sep-22	11	1137	FP	12	SWL	2	551	ON	3RS ET	22.1725	113.9287	AUTUMN	NONE	Р
06-Sep-22	12	1158	CWD	4	SWL	2	1022	ON	3RS ET	22.2000	113.9173	AUTUMN	NONE	Р
06-Sep-22	13	1225	FP	1	SWL	2	72	ON	3RS ET	22.1715	113.9190	AUTUMN	NONE	Р
06-Sep-22	14	1248	FP	3	SWL	2	127	ON	3RS ET	22.1508	113.9081	AUTUMN	NONE	Р

DATE	STG#	TIME	CWD/FP	GP SZ	AREA	BEAU	PSD	EFFORT	TYPE	DEC LAT	DEC LON	SEASON	BOAT ASSOC.	P/S
06-Sep-22	15	1309	CWD	6	SWL	2	741	ON	3RS ET	22.1637	113.9039	AUTUMN	NONE	S
06-Sep-22	16	1431	CWD	1	SWL	2	114	ON	3RS ET	22.1980	113.8879	AUTUMN	NONE	Р
09-Sep-22	1	0952	CWD	1	NWL	2	569	ON	3RS ET	22.3771	113.8701	AUTUMN	NONE	Р
09-Sep-22	2	1205	CWD	2	NWL	2	1048	ON	3RS ET	22.3862	113.8881	AUTUMN	NONE	Р
14-Sep-22	1	1056	FP	5	SWL	2	270	ON	3RS ET	22.1846	113.9354	AUTUMN	NONE	Р
14-Sep-22	2	1110	FP	2	SWL	2	179	ON	3RS ET	22.1548	113.9356	AUTUMN	NONE	Р
14-Sep-22	3	1126	FP	1	SWL	2	125	ON	3RS ET	22.1641	113.9281	AUTUMN	NONE	Р
14-Sep-22	4	1152	FP	2	SWL	2	111	ON	3RS ET	22.1946	113.9177	AUTUMN	NONE	Р
14-Sep-22	5	1227	FP	3	SWL	3	5	ON	3RS ET	22.1541	113.9063	AUTUMN	NONE	Р
19-Sep-22	1	1043	CWD	4	WL	2	233	ON	3RS ET	22.2606	113.8419	AUTUMN	NONE	Р
19-Sep-22	2	1157	CWD	5	WL	3	386	ON	3RS ET	22.2045	113.8357	AUTUMN	NONE	Р
19-Sep-22	3	1230	CWD	5	WL	3	308	ON	3RS ET	22.1957	113.8343	AUTUMN	NONE	Р
20-Sep-22	1	1054	CWD	2	WL	2	505	ON	3RS ET	22.2502	113.8471	AUTUMN	NONE	Р

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

#### Notes:

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

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

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

A total of 431.255 km of survey effort was collected under Beaufort Sea State 3 or below with favourable visibility; total no. of 10 on-effort sightings and total number of 32 dolphins from on-effort sightings were collected under such condition. Calculation of the encounter rates in September 2022 are shown as below:

Encounter Rate by Number of Dolphin Sightings (STG) in September 2022

$$STG = \frac{10}{431.255} \times 100 = 2.32$$

Encounter Rate by Number of Dolphins (ANI) in September 2022

$$ANI = \frac{32}{431.255} \times 100 = 7.42$$

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

A total of 1304.917 km of survey effort was collected under Beaufort Sea State 3 or below with favourable visibility; total no. of 57 on-effort sightings and total number of 185 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)

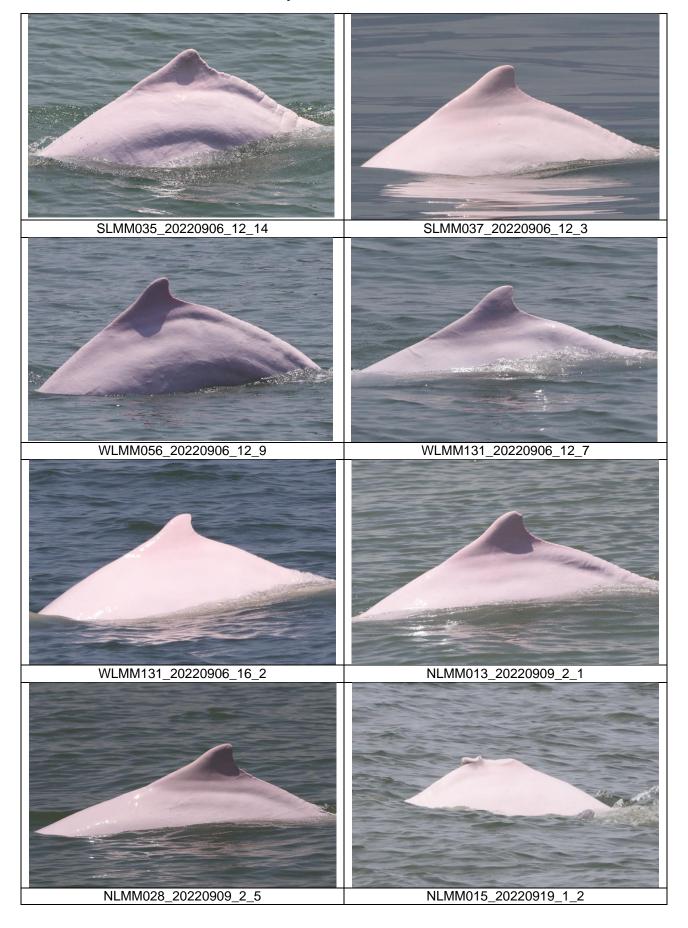
$$STG = \frac{57}{1304.917} \times 100 = 4.37$$

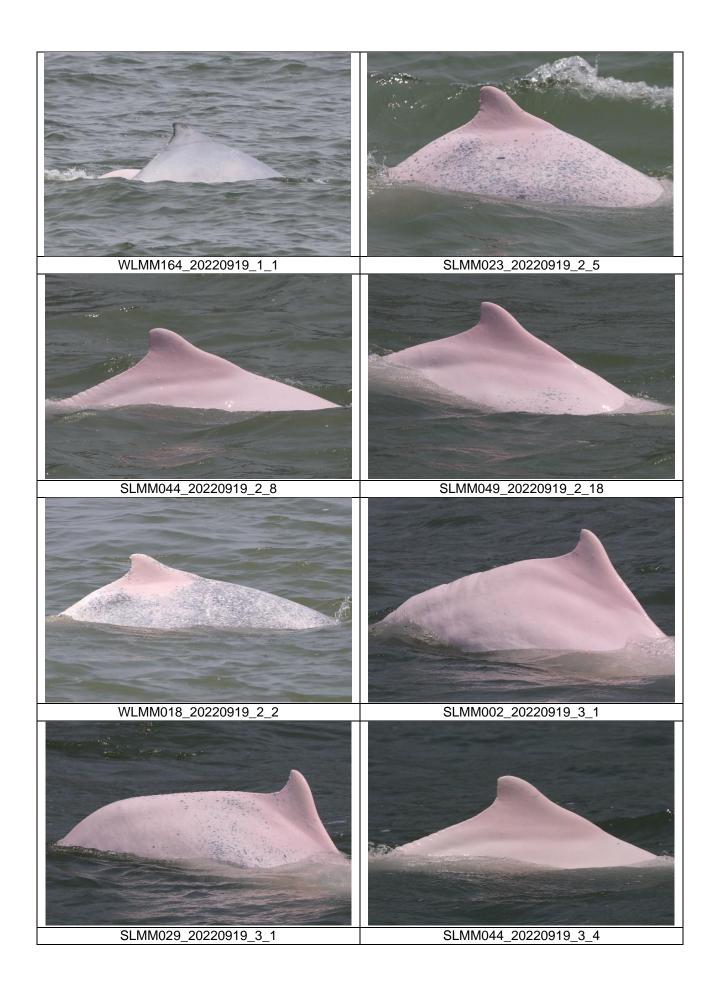
Running Quarterly Encounter Rate by Number of Dolphins (ANI)

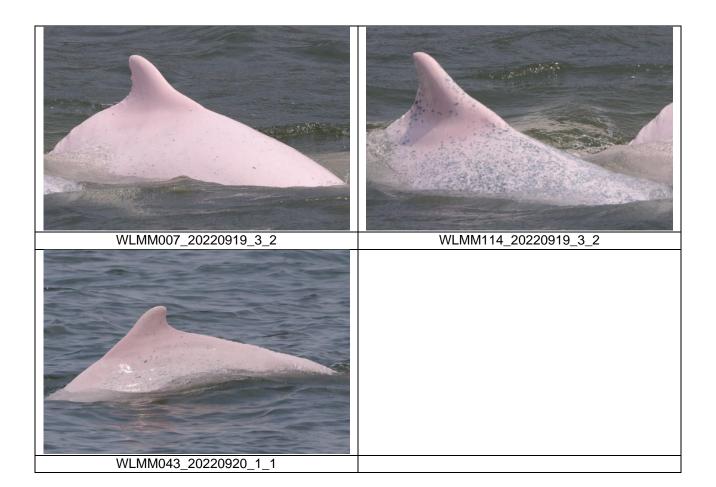
$$ANI = \frac{185}{1304.917} \times 100 = 14.18$$

# **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
16/Sep/22	Lung Kwu Chau	9:00	14:00	6:00	2	4	0	NA
21/Sep/22	Sha Chau	10:35	16:35	6:00	2-3	2-3	0	NA

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

# **Appendix E. Calibration Certificates**



# 專 業 化 驗 有 限 公 司 QUALITY PRO TEST-CONSULT LIMITED

Unit 10, 14/F, Wah Wai Centre, 38-40 Au Pui Wan St., Fotan, Hong Kong Email: info@qualityprotest.com; Website: www.qualityprotest.com Tel: (852) 3956 8717; Fax: (852) 3956 3928

# REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No.

: R-BB090081

**Date of Issue** 

: 19 September 2022

Page No.

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#### PART A - CUSTOMER INFORMATION

Enovative Environmental Service Ltd. Flat 2207, Yu Fun House Yu Chui Court, Shatin

New Territories (HK) Hong Kong

**PART B - SAMPLE INFORMATION** 

Name of Equipment:

YSI ProDSS (Multi-Parameters)

Manufacturer:

YSI (a xylem brand)

Serial Number:

16H104234

Date of Received:

16 September 2022

Date of Calibration:

16 September 2022 15 December 2022

Date of Next Calibration: Request No.:

D-BB090081

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

Test Parameter

Reference Method

pH value

APHA 21e 4500 H+

Temperature

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

2008: Working Thermometer Calibration Procedure

Salinity

APHA 21e 2520B

Dissolved oxygen

APHA 21e 4500 O

Turbidity Conductivity APHA 21e 2130B APHA 21e 2510B

#### PART D - CALIBRATION RESULT

# (1) pH value

Target ( pH unit )	Display Reading (pH unit)	Tolerance	Result
4.00	3.97	-0.03	Satisfactory
7.42	7.38	-0.04	Satisfactory
10.01	9.92	-0.09	Satisfactory

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

#### (2) Temperature

Reading of Ref. thermometer (°C)	Display Reading (°C)	Tolerance	Result
40	40.1	0.1	Satisfactory
30	30.1	0.1	Satisfactory
10	10.0	0.0	Satisfactory

Tolerance of Temperature should be less than  $\pm\,2.0$  (  $^{\circ}C$  )

# (3) Salinity

Expected Reading (g/L)	Display Reading (g/L)	Tolerance (%)	Result
10	10.17	1.70	Satisfactory
20	20.50	2.50	Satisfactory
30	30.31	1.03	Satisfactory

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

--- CONTINUED ON NEXT PAGE ---

AUTHORIZED SIGNATORY:

Assistant Manager (Chemical Testing)



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

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# REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

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#### (4) Dissolved oxygen

Expected Reading ( mg/L )	Display Reading ( mg/L )	Tolerance	Result
7.38	7.60	0.22	Satisfactory
4.70	4.85	0.15	Satisfactory
1.48	1.80	0.32	Satisfactory
0.45	0.40	-0.05	Satisfactory

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

# (5) Turbidity

Expected Reading (NTU)	Display Reading (NTU)	Tolerance (%)	Result
0	0.10		Satisfactory
10	9.84	-1.60	Satisfactory
20	19.82	-0.90	Satisfactory
100	97.79	-2.20	Satisfactory
800	819.11	2.40	Satisfactory

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

# (6) Conductivity

Expected Reading ( μS/cm at 25°C )	Display Reading	Tolerance (%)	Result
146.9	137.9	-6.13	Satisfactory
1412	1380.2	-2.25	Satisfactory
12890	12637.4	-1.96	Satisfactory
58670	57116	-2.65	Satisfactory
111900	112537	0.57	Satisfactory

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

# Remark(s)

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

--- END OF REPORT ---



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# REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No.

: R-BB090082

Date of Issue

: 19 September 2022

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#### PART A - CUSTOMER INFORMATION

Enovative Environmental Service Ltd.

Flat 2207, Yu Fun House Yu Chui Court, Shatin

New Territories (HK) Hong Kong

# **PART B - SAMPLE INFORMATION**

Name of Equipment:

YSI ProDSS (Multi-Parameters)

Manufacturer:

YSI (a xylem brand)

Serial Number:

17E100747

Date of Received:

16 September 2022

Date of Calibration:

Date of Next Calibration:

16 September 202215 December 2022

Request No.:

D-BB090082

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

**Test Parameter** 

Reference Method

pH value

APHA 21e 4500 H+

Temperature

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

2008: Working Thermometer Calibration Procedure

Salinity

APHA 21e 2520B

Dissolved oxygen

APHA 21e 4500 O APHA 21e 2130B

Turbidity

APHA 21e 2510B

Conductivity

# PART D - CALIBRATION RESULT

# (1) pH value

Target (pH unit)	Display Reading (pH unit)	Tolerance	Result
4.00	3.95	-0.05	Satisfactory
7.42	7.37	-0.05	Satisfactory
10.01	9.94	-0.07	Satisfactory

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

# (2) Temperature

Reading of Ref. thermometer ( °C )	Display Reading (°C)	Tolerance	Result
40	40.1	0.1	Satisfactory
30	30.1	0.1	Satisfactory
10	10.0	0.0	Satisfactory

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

# (3) Salinity

Expected Reading (g/L)	Display Reading (g/L)	Tolerance ( % )	Result
10	10.19	1.90	Satisfactory
20	20.43	2.15	Satisfactory
30	30.33	1.10	Satisfactory

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

--- CONTINUED ON NEXT PAGE ---

AUTHORIZED SIGNATORY:

LEE Chun-ning
Assistant Manager (Chemical Testing)



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

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# REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

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# (4) Dissolved oxygen

Expected Reading ( mg/L )	Display Reading ( mg/L )	Tolerance	Result
7.38	7.58	0.20	Satisfactory
4.70	4.86	0.16	Satisfactory
1.48	1.81	0.33	Satisfactory
0.45	0.39	-0.06	Satisfactory

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

# (5) Turbidity

Expected Reading (NTU)	Display Reading (NTU)	Tolerance ( % )	Result
0	0.10		Satisfactory
10	9.86	-1.40	Satisfactory
20	19.85	-0.70	Satisfactory
100	98.96	-1.00	Satisfactory
800	817.32	2.20	Satisfactory

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

# (6) Conductivity

Expected Reading ( µS/cm at 25°C )	Display Reading	Tolerance (%)	Result
146.9	136.8	-6.88	Satisfactory
1412	1372.4	-2.8	Satisfactory
12890	12522.6	-2.85	Satisfactory
58670	56891	-3.03	Satisfactory
111900	112764	0.77	Satisfactory

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

# Remark(s)

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

--- END OF REPORT ---

# **Appendix F.** 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	409237	Receipt acknowledged by EPD on 25 Oct 2016
	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-RS0683- 22	Valid from 13 Aug 2022 to 30 Jan 2023
	Bill Account for disposal	Works area of 3206	A/C 7026398	Approval granted from EPD on 16 Nov 2016
3302	Notification of Construction Work under APCO	Works area of 3302	484487	Receipt acknowledged by EPD on 20 Sep 2022
		Staging area of 3302	479482	Receipt acknowledged by EPD on 6 May 2022
			479479	Receipt acknowledged by EPD on 6 May 2022
			479481	Receipt acknowledged by EPD on 6 May 2022
	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-RS0242-22	Valid from 20 Apr 2022 to 19 Oct 2022
	(General Works)		GW-RS0427-22	Valid from 3 Jun 2022 to 2 Nov 2022
3303	Notification of Construction Work under APCO	Works area of 3303	483049	Receipt acknowledged by EPD on 11 Aug 2022
	Registration as Chemical Waste Producer	Works area of 3303	5213-951- S4174-01	Completion of Registration on 17 Jun 2019

Contract No.	Description	Location	Permit/ Reference No.	Status
	Discharge License under WPCO	Works area of 3303	WT00035689- 2020	Valid from 11 May 2020 to 31 May 2025
		Works area of 3303	WT00036734- 2020	Valid from 1 Dec 2020 to 31 Dec 2025
	Bill Account for disposal	Works area of 3303	A/C 7034272	Approval granted from EPD on 10 Jun 2019
	Construction Noise Permit (General Works)	Works area of 3303 (Existing airport)	GW-RS0291-22	Valid from 16 May 2022 to 14 Nov 2022
			GW-RS0458-22	Valid from 8 Jun 2022 to 5 Dec 2022
		Works area of 3303	GW-RS0518-22	Superseded by GW-RS0805-22
		(Reclamation area)	GW-RS0805-22	Valid from 24 Sep 2022 to 19 Mar 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 Nov 2020
	Bill Account for disposal	Works area of 3305	A/C 7035360	Approval granted from EPD on 9 Oc 2019
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 No 2019
3307	Notification of Construction Work under APCO	Works area of 3307	454964	Receipt acknowledged by EPD on 6 Ap 2020
	Registration as Chemical Waste Producer	Works area of 3307	5211-951- P3379-01	Completion of Registration on 8 Jun 2020
	Discharge License under WPCO	Works area of 3307	WT00036926- 2020	Valid from 31 Dec 2020 to 31 Dec 2025
	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-RS0586-22	Valid from 6 Aug 2022 to 5 Feb 2023
3308	Bill Account for disposal	Works area of 3308	A/C 7038988	Approval granted from EPD on 24 No 2020
3310	Notification of Construction Work under APCO	Works area of 3310	474782	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 De 2021
	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-RS0612-22	Valid from 29 Jul 2022 to 26 Jan 2023

Contract No.	Description	Location	Permit/ Reference No.	Status
		Works area of 3310 (Reclamation area)	GW-RS0367-22	Superseded by GW-RS0731-22
			GW-RS0731-22	Valid from 1 Sep 2022 to 28 Feb 2023
	Construction Noise Permit (Percussive Piling)	Works area of 3310 (Reclamation area)	PP-RS0006-22	Valid from 4 Apr 2022 to 30 Sep 2022
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	450860	Receipt acknowledged by EPD on 11 Nov 2019
	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
	Discharge License under WPCO	Works area of 3403	WT00035841- 2020	Valid from 5 Jun 2020 to 30 Jun 2025
	Bill Account for disposal	Works area of 3403	A/C 7035267	Approval granted from EPD on 30 Sep 2019
	Construction Noise Permit (General Works)	Works area of 3403	GW-RS0655-22	Valid from 1 Sep 2022 to 28 Feb 2023
	Construction Noise Permit (Special Case)	Works area of 3403	GW-RS0659-22	Valid from 15 Aug 2022 to 30 Nov 2022
3404	Bill Account for disposal	Works area of 3404	A/C 7035158	Approval granted from EPD on 12 Sep 2019
3405	Notification of Construction Work under APCO	Works area of 3405	453447	Receipt acknowledged by EPD on 18 Feb 2020
	Registration as Chemical Waste Producer	Works area of 3405	WPN 5218-951- C4431-01	Completion of Registration on 12 Mar 2020
	Discharge License under WPCO	Works area of 3405	WT00037084- 2020	Valid from 17 Mar 2021 to 31 Mar 2026
	Bill Account for disposal	Works area of 3405	A/C 7036796	Approval granted from EPD on 20 Mar 2020
	Construction Noise Permit	Works area of 3405	GW-RS0241-22	Valid from 16 Apr 2022 to 11 Oct 2022 Superseded by GW-RS0788-22
	(General Works)	Works area of 3405	GW-RS0788-22	Valid from 24 Sep 2022 to 19 Mar 2023
3408	Notification of Construction Work under APCO	Works area of 3408	461958	Receipt acknowledged by EPD on 17 Nov 2020
	Registration as Chemical Waste Producer	Works area of 3408	WPN 5218-951- B2621-01	Completion of Registration on 16 Jul 2021

Contract No.	Description	Location	Permit/ Reference No.	Status
	Discharge License under WPCO	Works area of 3408	WT00038836- 2021	Valid from 27 Sep 2021 to 30 Sep 2026
	Bill Account for disposal	Works area of 3408	A/C 7039063	Approval granted from EPD on 2 Dec 2020
	Construction Noise Permit	Works area of 3408	GW-RS0268-22	Valid from 16 Apr 2022 to 30 Sep 2022 Superseded by GW-RS0790-22
	(General Works)	Works area of 3408	GW-RS0790-22	Valid from 24 Sep 2022 to 19 Mar 2023
3508	Notification of Construction	Works area of 3508	459017	Receipt acknowledged by EPD on 19 Aug 2020
	Work under APCO		459469	Receipt acknowledged by EPD on 4 Sep 2020
		Works area of 3508 (Area J)	467132	Receipt acknowledged by EPD on 3 May 2021
	Registration as Chemical Waste Producer	Works area of 3508	WPN-5218-951- G2898-01	Completion of Registration on 28 Sep 2020
	Discharge License under	Works area of 3508	WT00037209- 2020	Valid from 28 Jan 2022 to 31 Mar 2026
	WPCO		WT00037523- 2021	Valid from 24 Aug 2022 to 30 Apr 2026
			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 (General Works)	Works area of 3508	GW-RS0525-22	Valid from 8 Jul 2022 to 5 Jan 2023
		Works area of 3508	GW-RS0166-22	Valid from 18 Mar 2022 to 16 Sep 2022 Superseded by GW-RS0759-22
		Works area of 3508	GW-RS0759-22	Valid from 17 Sep 2022 to 16 Mar 2023
		Works area of 3508	GW-RS0527-22	Valid from 8 Jul 2022 to 1 Jan 2023
	Construction Noise Permit (Special Case)	Works area of 3508	GW-RS0486-22	Valid from 23 Jun 2022 to 5 Oct 2022
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-RS0370-22	Valid from 1 Jun 2022 to 30 Nov 2022
3602	Notification of Construction Work under APCO	Works area of 3602	421278	Receipt acknowledged by EPD on 18 Sep 2017

Contract No.	Description	Location	Permit/ Reference No.	Status
	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 Oc 2017
	Construction Noise Permit	Works area of 3602	GW-RS0126-22	Valid from 1 Mar 2022 to 31 Aug 2022
	(General Works)	Works area of 3602	GW-RS0172-22	Valid from 28 Mar 2022 to 27 Sep 2022
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 Jar 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
	Construction Noise Permit (General Works)	Works area of 3603	GW-RS0335-22	Valid from 24 May 2022 to 23 Nov 2022
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-RS0436-22	Valid from 10 Jun 2022 to 10 Nov 2022
3723	Notification of Construction	3723A	464440	Receipt acknowledged by EPD on 9 Feb 2021
	Work under APCO	3723B	464444	Receipt acknowledged by EPD on 9 Feb 2021
	Registration as Chemical Waste	3723A	WPN 5218-951- T3920-01	Completion of Registration on 9 Feb 202
	Producer	3723B	WPN 5218-951- T3921-01	Completion of Registration on 9 Feb 202
	Discharge License under WPCO	Works area of 3723A & 3723B	WT00039451- 2021	Valid from 28 Oct 2021 to 31 Oct 2023
	Bill Account for disposal	Works area of 3723A	A/C 7039755	Approval granted from EPD on 24 Fel 2021
		Works area of 3723B	A/C 7039754	Approval granted from EPD on 24 Fel 2021
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

Contract No.	Description	Location	Permit/ Reference No.	Status
	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-RS0440-22	Valid from 10 Jun 2022 to 9 Dec 2022
3801	Notification of Construction	Works area of 3801	451991	Receipt acknowledged by EPD on 18 Dec 2019
	Work under APCO		477839	Receipt acknowledged by EPD on 21 Mar 2022
		Stockpiling area of 3801	454269	Receipt acknowledged by EPD on 12 Mar 2020
	Registration as Chemical Waste Producer	Works area of 3801	WPN 5296-951- C1169-53	Completion of Registration on 14 Aug 2018
-	Discharge License under WPCO	Works area of 3801	WT00041429- 2022	Valid from 16 Aug 2022 to 31 Aug 2027
		Stockpiling area of 3801	WT00037354- 2021	Valid from 8 Mar 2021 to 31 Mar 2026
	Bill Account for disposal	Works area of 3801	A/C 7028254	Approval granted from EPD on 3 Jul 2017
	Construction Noise Permit	Works area of 3801	GW-RS0470-22	Valid from 9 Jun 2022 to 6 Dec 2022 Superseded by GW-RS0744-22
	(General Works)	Works area of 3801	GW-RS0744-22	Valid from 4 Sep 2022 to 28 Feb 2023
3802	Notification of Construction Work under APCO	Works area of 3802	458122	Receipt acknowledged by EPD on 14 Jul 2020
	Registration as Chemical Waste Producer	Works area of 3802	WPN 5218-951- G2895-01	Completion of Registration on 28 Aug 2020
		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	WT00039092- 2021	Valid from 30 Nov 2021 to 31 Nov 2026
	Bill Account for disposal	Works area of 3802	A/C 7037575	Approval granted from EPD on 15 Jun 2020
	Construction Noise Permit	Works area of 3802	GW-RS0248-22	Valid from 16 Apr 2022 to 11 Oct 2022 Superseded by GW-RS0778-22
	(General Works)	Works area of 3802	GW-RS0778-22	Valid from 24 Sep 2022 to 19 Mar 2023
		Works area of 3802 (Ventilation Building)	GW-RS0587-22	Valid from 18 Jul 2022 to 17 Jan 2023
		Works area of 3802	GW-RS0592-22	Valid from 21 Jul 2022 to 17 Jan 2023

Contract No.	Description	Location	Permit/ Reference No.	Status
3901A	Notification of Construction Work under APCO	Works area of 3901A	466883	Receipt acknowledged by EPD on 26 Apr 2021
	Air Pollution Control (Furnaces, Ovens and Chimneys) (Installation and Alteration) Regulations	Works area of 3901A	EP/RS/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
	Landfill Disposal of Waste Concrete from Batching Plant	Works area of 3901A	EP195/01/18	Valid from 20 June 2022 to 19 March 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-RS0517-22	Valid from 5 Aug 2022 to 4 Feb 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-RS0552-22	Valid from 5 Aug 2022 to 4 Feb 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-RS0799-22	Valid from 24 Sep 2022 to 19 Mar 2023

# Appendix G. 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	55	2	2	