

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

Construction Phase Monthly EM&A Report No.65 (For May 2021)

June 2021

Airport Authority Hong Kong

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This Monthly EM&A Report No. 65 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 11 June 2021



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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

11 June 2021

Dear Sir,

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

Submission of Monthly EM&A Report No. 65 (May 2021)

Reference is made to the Environmental Team's submission of the Monthly EM&A Report No. 65 under Condition 3.5 of the Environmental Permit No. EP-489/2014 certified by the ET Leader on 11 June 2021.

We write to verify the captioned submission in accordance with the requirement stipulated in Condition 3.5 of EP-489/2014.

Should you have any query, please feel free to contact 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
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 65th 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 31 May 2021.

Key Activities in the Reporting Period

The key activities of the Project carried out in the reporting period included reclamation works and land-based works. Works in the reclamation areas included deep cement mixing (DCM) works, marine filling, seawall and facilities construction, together with runway and associated works. Land-based works on existing airport island involved mainly airfield works, foundation and substructure work for Terminal 2 expansion, modification and tunnel work for Automated People Mover (APM) and Baggage Handling System (BHS), and preparation work for utilities, with activities include site establishment, site office construction, road and drainage works, cable ducting, demolition, piling, and excavation works.

EM&A Activities Conducted in the Reporting Period

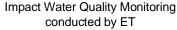
The monthly EM&A programme was undertaken in accordance with the Manual of the Project. Summary of the monitoring activities during this reporting period is presented as below:

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 information including ET's observations, records of Maritime Surveillance System (MSS), and contractors' site records, it is noted that environmental pollution control and mitigation measures were properly implemented and construction activities of the Project in the reporting period did not introduce adverse impacts to the sensitive receivers.

Snapshots of EM&A Activities in the Reporting Period







On-site Checking of WetSep Maintenance Record



Inspection of the Control Room of Asphalt Plant

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 waste, and CWD did not trigger the corresponding Action and Limit Levels in the reporting period.

One monitoring result of construction noise exceeded the relevant Limit Level, and the corresponding investigation was conducted as stipulated in the EM&A programme. The investigation findings concluded that the exceedance was not due to the Project.

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

Summary of Upcoming Key Issues

Reclamation Works:

Contract 3206 Main Reclamation Works

- DCM works;
- Land-based ground improvement works;
- Seawall construction;
- Marine filling; and
- Sorting and reuse of inert waste from other 3RS contracts.

Airfield Works:

Contract 3301 North Runway Crossover Taxiway

- Cable ducting works; and
- Paving works.

Contract 3302 Eastern Vehicular Tunnel Advance Works

- Cable laying and ducting works;
- Backfilling and reinstatement works; and
- Piling and structure works.

Contract 3303 Third Runway and Associated Works

- Land-based ground improvement works;
- Operation of asphalt plant;
- · Footing and utilities work; and
- Cable laying and ducting works.

Contract 3305 Airfield Ground Lighting System

- Genset installation; and
- Site establishment.

Contract 3307 Fire Training Facility

- Architectural, Builder's and Finishing works;
- Drainage and utilities works; and
- Building construction.

Third Runway Concourse:

Contract 3403 New Integrated Airport Centres Building and Civil Works

- Architectural, Builder's Work and Finishing works;
- Underground utilities construction;
- Footing construction; and
- Pre-boring and sheetpiling works.

Contract 3405 Third Runway Concourse Foundation and Substructure Works

- Foundation works;
- Piling work;
- Excavation and backfilling; and
- Road formation.

Terminal 2 Expansion:

Contract 3503 Terminal 2 Foundation and Substructure Works

- T2 re-configuration;
- Excavation works;
- Utilities road work; and
- Piling and structure works.

Contract 3508 Terminal 2 Expansion Works

- Excavation and footing construction;
- Site formation;
- · Piling work; and
- Builders' works.

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

Contract 3601 New Automated People Mover System (TRC Line)

- Rebar fixing;
- Formwork erection and removal;
- · Guidebeam installation; and
- Concreting work.

Contract 3602 Existing APM System Modification Works

- Car modification; and
- Concreting work.

Construction Support (Facilities):

Contract 3721 Construction Support Infrastructure Works

- Excavation and backfilling;
- Laying of drainage pipes and ducts; and
- Road works.

Contract 3722 Construction Support Facilities

- Foundation works;
- Erection of superstructure; and
- Site establishment.

Contract 3723 Construction Support Facilities

- Foundation works;
- Erection of superstructure; and
- Site establishment.

Airport Support Infrastructure:

Contract 3801 APM and BHS Tunnels on Existing Airport Island

- Formwork and rebar fixing;
- Construction of working platform;
- Cofferdam for shaft;
- Site clearance; and
- Demolition works.

Contract 3802 APM and BHS Tunnels and Related Works

- Construction of Airside Fire Station and marine sediment treatment plant;
- Installation of sheet pipes and dewatering well;
- · Pre-drilling; and
- Ducting works.

Construction Support (Services / Licences):

Contract 3901A Concrete Batching Facility

- Plant operation; and
- Material conveyor belt construction.

Contract 3901B Concrete Batching Facility

- Plant operation; and
- Foundation works for conveyor belt.

Summary Table

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

complaint regarding alleged dusty and muddy vehicles was received on 20 April 2021. Contractors to provide information related to the complaint. Regular sit inspections were conducted in which wheel washing on vehicles prior to leaving their works area was observed. For ad hoc inspections soil and sands on road surface in Tuen Mun Public Cargo Workin. Area and dusty surfaces at Nort Eastern Quay on 3RS reclaimed land were both observed. To follow up, the contractors are reminded to ensure the wheels of outgoin vehicles from their site area an properly washed. Haul road connected to the quay would be paved and manual wheel washing would be implemented continuously in the long term, an enhanced whee washing measure is planned at the quays. The case was considered closed. A complaint regarding dust issue was received on 14 May 2021. A complaint regarding dust issue was received on 14 May 2021. Trequested the relevant contractor and joint inspections were conducted in which sprinklers an water trucks were observed operating. ET also checked the win station and the result might sugges the presence of sudden gust. Based on the information provided by the contractor was reminded to continuin implementing mitigation measure implementing mitigation measure.		Yes	No	Details	Analysis / Recommendation / Remedial Actions
recorded. Complaint Received In the previous reporting period, a complaint regarding alleged dusty and muddy vehicles was received on 20 April 2021. April 2021. In the previous reporting period, a contractors to provide information related to the complaint. Regular site inspections were conducted in which wheel washing on vehicles prior to leaving their works area was observed. For ad hoc inspections soil and sands on road surface in Truen Mun Public Cargo Workin. Area and dusty surfaces at North Eastern Quay on 3RS reclaime land were both observed. To follow up, the contractors are reminded to ensure the wheels of outgoin vehicles from their site area an properly washed. Haul roa connected to the quay would be paved and manual wheel washing measure is planned at the quays. The case was considered closed. A complaint regarding dust issue was received on 14 May 2021. A complaint regarding dust issue was received on 14 May 2021. ET requested the relevant contractor connected to the quay would be implemented continuously in the long term, an enhanced whee washing measure is planned at the quays. The case was considered closed. ET requested the relevant contractor to provide information related to the complaint. Regular site inspections were conducted in which sprinklers and was received on 14 May 2021. ET requested the relevant contractor connected to the quays. The case was considered to the complaint. Regular site inspections were conducted in which sprinklers and washing measure is planned at the configuration related to the complaint. Regular site inspections are received on 14 May 2021. ET requested the relevant contractor to provide information related to the complaint. Regular site inspections are received on 14 May 2021. ET requested the relevant contractor to provide information related to the complaint. Regular site inspections are received on 14 May 2021. ET requested the relevant contractor to provide information related to the complaint. Regular site in the provide site in the relevant co	Breach of Limit Level^		$\sqrt{}$	No breach of Limit Level was recorded.	Nil
complaint regarding alleged dusty and muddy vehicles was received on 20 April 2021. April 2021.	Breach of Action Level^		V		Nil
received on 14 May 2021. to provide information related to the complaint. Regular site inspection and joint inspections were conducted in which sprinklers are water trucks were observed operating. ET also checked the wind station and the result might suggest the presence of sudden gust. Based on the information provided by the contractor and ET's findings, the dust generation might be caused by sudden gust. Nevertheless, the contractor was reminded to continue implementing mitigation measure on dust control. The case was considered closed. Notification of any summons and status of prosecutions Change that affect the There was no change to the EM&A There was no change to the construction works that may affect the	Complaint Received	1		complaint regarding alleged dusty and muddy vehicles was received on 20 April 2021.	contractors to provide information related to the complaint. Regular site inspections were conducted in which wheel washing on vehicles prior to leaving their works area was observed. For ad hoc inspections, soil and sands on road surface in Tuen Mun Public Cargo Working Area and dusty surfaces at North Eastern Quay on 3RS reclaimed land were both observed. To follow up, the contractors are reminded to ensure the wheels of outgoing vehicles from their site area are properly washed. Haul road connected to the quay would be paved and manual wheel washing would be implemented continuously. In the long term, an enhanced wheel washing measure is planned at the quays. The case was considered closed.
summons and status of prosecution was received. prosecutions Change that affect the EM&A There was no change to the Nil construction works that may affect the					conducted in which sprinklers and water trucks were observed operating. ET also checked the wind speed at the Chek Lap Kok wind station and the result might suggest the presence of sudden gust. Based on the information provided by the contractor and ET's findings, the dust generation might be caused by sudden gust. Nevertheless, the contractor was reminded to continue implementing mitigation measures on dust control. The case was
EM&A construction works that may affect the	summons and status of		\checkmark		Nil
	<u> </u>		√	construction works that may affect the	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 3.1¹. AECOM Asia Company Limited (AECOM) was employed by AAHK as the Independent Environmental Checker (IEC) for the Project.

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

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

The summary of construction works programme can be referred to Section 1.4.

1.2 Scope of this Report

This is the 65th 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 31 May 2021.

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 presented in Section 1.3 of the Construction Phase Monthly EM&A Report No.64 remained unchanged during the reporting period.

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

1.4 Summary of Construction Works

The key activities of the Project carried out in the reporting period included reclamation works and land-based works. Works in the reclamation areas included DCM works, marine filling, seawall and facilities construction, together with runway and associated works. Land-based works on existing airport island involved mainly airfield works, foundation and substructure work for Terminal 2 expansion, modification and tunnel work for APM and BHS systems, and preparation work for utilities, with activities include site establishment, site office construction, road and drainage works, cable ducting, demolition of existing facilities, 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 1.1**. The EM&A requirements remained unchanged during the reporting period.

Table 1.1: Summary of status for all environmental aspects under the Updated EM&A Manual

Manuai		
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 has been 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 has been 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 has been reported in Baseline Water Quality Monitoring Report and submitted to EPD under EP Condition 3.4.
General Impact Water Quality Monitoring for reclamation, water jetting and field joint works	Three days per week, at mid-flood and midebb tides.	On-going for reclamation works. General impact water quality monitoring for water jetting works was completed on 23 May 2017.
Initial Intensive Deep Cement Mixing (DCM) Water Quality Monitoring	At least four weeks	The Initial Intensive DCM Monitoring Report was submitted and approved by EPD in accordance with the Detailed Plan on DCM.
Regular DCM Water Quality Monitoring	Three times per week until completion of DCM works.	On-going
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 at least one year before commencement of the operation of 3RS	The proposed methodology of the annual sewage flow monitoring was submitted to EPD.
Details of the routine H ₂ S monitoring system for the sewerage system of 3RS	Details to be prepared and submitted to EPD at least one year before commencement of the operation of 3RS	The 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 On-going

Parameters	EM&A Requirements	Status
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.
	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 (C	WD)	
Baseline Monitoring	6 months of baseline surveys before the commencement of land formation related construction works. Vessel line transect surveys: Two full surveys per month; Land-based theodolite tracking surveys: Two days per month at the Sha Chau station and two days per month at the Lung Kwu Chau station; and Passive Acoustic Monitoring (PAM): For the whole duration of baseline period.	Baseline CWD results were reported in the CWD Baseline Monitoring Report and submitted to EPD in accordance with EP Condition 3.4.
Impact Monitoring	Vessel line transect surveys: Two full surveys per month; Land-based theodolite tracking surveys: One day per month at the Sha Chau station and one day per month at the Lung Kwu Chau station; and PAM: For the whole duration for land formation related construction works.	On-going
Landscape & Visual		
Landscape & Visual Plan	At least 3 months before the commencement of construction works on	The Landscape & Visual Plan was submitted and approved by EPD under EP
	the formed land of the Project.	Condition 2.18
Baseline Monitoring	the formed land of the Project. One-off survey within the Project site boundary prior to commencement of any construction works	The baseline landscape & visual monitoring result has been reported in
Baseline Monitoring Impact Monitoring	One-off survey within the Project site boundary prior to commencement of any	The baseline landscape & visual monitoring result has been reported in Baseline Monitoring Report and submitted
	One-off survey within the Project site boundary prior to commencement of any construction works	The baseline landscape & visual monitoring result has been reported in Baseline Monitoring Report and submitted to EPD under EP Condition 3.4.

Parameters	EM&A Requirements	Status
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, environmental trainings and regular environmental management meetings were conducted during the reporting period, which are summarised as below:

- Two skipper training sessions provided by ET: 12 and 24 May 2021; and
- Seventeen environmental management meetings for EM&A review with works contracts: 6, 7, 11, 12, 17, 18, 21, 24, 26, 27 and 28 May 2021.

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

2 Air Quality Monitoring

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

Table 2.1: Locations of Impact Air Quality Monitoring Stations

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

2.1 Action and Limit Levels

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

Table 2.2: Action and Limit Levels of Air Quality Monitoring

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

2.2 Monitoring Equipment

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

Table 2.3: Air Quality Monitoring Equipment

Equipment	Brand and Model	Last Calibration Date	Calibration Certificate Provided in
Portable direct reading dust meter (Laser dust monitor)	SIBATA LD-3B-2 (Serial No. 296098)	20 Oct 2020	Monthly EM&A Report No. 58, Appendix E
	SIBATA LD-3B-1 (Serial No. 597337)	10 May 2021	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**, 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 B**.

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

Table 2.4: Summary of Air Quality Monitoring Results

Monitoring Station	1-hr TSP Concentration Range (μg/m³)	Action Level (μg/m³)	Limit Level (μg/m³)
AR1A	14 - 74	306	500
AR2	12 - 36	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 ⁽¹⁾	Tung Chung West Development	To be determined
NM3A ⁽²⁾	Site Office	Facade
NM4	Ching Chung Hau Po Woon Primary School	Free field
NM5	Village House in Tin Sum	Free field
NM6	House No. 1, Sha Lo Wan	Free field

Note:

- 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 _{eq(30mins)} dB(A)
NM1A, NM2, NM3A, NM4, NM5 and NM6	0700-1900 hours on normal weekdays	When one documented complaint is received from any one of the sensitive receivers	75dB(A) ⁽¹⁾

Note:

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

3.2 Monitoring Equipment

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

Table 3.3: Noise Monitoring Equipment

Equipment	Brand and Model	Last Calibration Date	Calibration Certificate Provided in
Integrated Sound Level Meter	Rion NL-52 (Serial No. 00998505)	20 Mar 2021	Monthly EM&A Report No. 63, Appendix E
	Rion NL-52 (Serial No. 01287679)	21 Jun 2020	Monthly EM&A Report No. 54, Appendix E
Acoustic Calibrator	Casella CEL-120/1 (Serial No. 2383737)	12 Sep 2020	Monthly EM&A Report No. 57, Appendix D
	Castle GA607 (Serial No. 040162)	20 Mar 2021	Monthly EM&A Report No. 63, Appendix E

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}, L₁₀ and L₉₀ were recorded. In addition, site conditions and noise sources were recorded on a record sheet.
- f. Noise measurement results, when higher than the baseline monitoring levels, were corrected with reference to the baseline monitoring levels.
- g. Observations were recorded when high intrusive noise (e.g. dog barking, helicopter noise) was observed during the monitoring.

3.3.2 Maintenance and Calibration

The maintenance and calibration procedures are summarised below:

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

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

3.4 Summary of Monitoring Results

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

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

Table 3.4: Summary of Construction Noise Monitoring Results

Monitoring Station	Noise Level Range, dB(A)	Limit Level, dB(A)	
	Leq (30mins)	Leq (30mins)	
NM1A ⁽¹⁾⁽³⁾	70 - 76	75	
NM4 ⁽¹⁾	60 - 66	70(2)	
NM5 ⁽¹⁾⁽³⁾	57 - 62	75	
NM6 ⁽¹⁾⁽³⁾	60 - 65	75	

Notes:

- (1) +3dB(A) Façade correction included;
- (2) Reduced to 65dB(A) during school examination periods at NM4. School examination took place from 31 May to 4 June 2021.
- (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 levels.

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

One of the monitoring results triggered the corresponding Limit Level at NM1A on 28 May 2021. In accordance with Event and Action Plan stipulated in the Manual, EPD, IEC and Contractor were informed when the corresponding Limit Level was triggered.

It was confirmed from the on-site observation by monitoring team during the whole period of monitoring that the major noise source was from cicadas chirping. Moreover, no major construction noise was observed during the whole monitoring period. As confirmed with the contractors, noise mitigation measures were implemented for their construction works during the monitoring period.

Therefore, the case was considered not due to Project activities. The mitigation measures that have been implemented were considered effective and will be implemented continuously.

3.5 Conclusion

During the reporting period, it is noted that the vast majority of monitoring results were within their corresponding Action and Limit Levels, while only one result triggered the corresponding Limit Level, and investigation was conducted accordingly.

Based on the investigation findings, the result that triggered the corresponding Limit Level was not due to the Project. Therefore, the Project did not cause adverse impact at the noise sensitive receivers. All required actions under the Event and Action Plan were followed. This case appeared to be due to other sources not related to the Project.

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 cicadas chirping and traffic noise near NM1A, school activities at NM4 and aircraft noise near NM5 and 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, suspended solids (SS), total alkalinity, chromium, and nickel was conducted three days per week, at mid-ebb and mid-flood tides, at a total of 23 water quality monitoring stations, comprising 12 impact (IM) stations, 8 sensitive receiver (SR) stations and 3 control (C) stations in the vicinity of water quality sensitive receivers around the airport island in accordance with the Manual. The 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 and Parameters of Impact Water Quality Monitoring

Monitoring Station	Description		Coordinates	Parameters
		Easting	Northing	
C1	Control Station	804247	815620	General Parameters
C2	Control Station	806945	825682	DO, pH, Temperature,
C3 ⁽³⁾	Control Station	817803	822109	Salinity, Turbidity, SS
IM1	Impact Station	807132	817949	DCM Parameters
IM2	Impact Station	806166	818163	Total Alkalinity, Heavy
IM3	Impact Station	805594	818784	Metals ⁽²⁾
IM4	Impact Station	804607	819725	
IM5	Impact Station	804867	820735	
IM6	Impact Station	805828	821060	
IM7	Impact Station	806835	821349	
IM8	Impact Station	808140	821830	
IM9	Impact Station	808811	822094	
IM10	Impact Station	809794	822385	
IM11	Impact Station	811460	822057	
IM12	Impact Station	812046	821459	
SR1A ⁽¹⁾	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 ⁽³⁾	Planned marine park / hard corals at The Brothers / Tai Mo To	814166	821463	General Parameters DO, pH, Temperature, Salinity, Turbidity, SS
				<u>DCM Parameters</u> Total Alkalinity, Heavy Metals ⁽²⁾⁽⁴⁾
SR3	Sha Chau and Lung Kwu	807571	822147	General Parameters
	Chau Marine Park / fishing and spawning grounds in North Lantau			DO, pH, Temperature, Salinity, Turbidity, SS
SR4A	Sha Lo Wan	807810	817189	

Monitoring Station	Description	Coordinates		Parameters
		Easting	Northing	
SR5A	San Tau Beach SSSI	810696	816593	
SR6A ⁽⁵⁾	Tai Ho Bay, Near Tai Ho Stream SSSI	814739	817963	General Parameters
SR7	Ma Wan Fish Culture Zone (FCZ)	823742	823636	DO, pH, Temperature, Salinity, Turbidity, SS
SR8 ⁽⁶⁾	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) Details of selection criteria for the two heavy metals for regular DCM monitoring refer to the Detailed Plan on Deep Cement Mixing available on the dedicated 3RS website (http://env.threerunwaysystem.com/en/epsubmissions.html). DCM specific water quality monitoring parameters (total alkalinity and heavy metals) were only conducted at C1 to C3, SR2, and IM1 to IM12.
- (3) According to the Baseline Water Quality Monitoring Report, C3 station is not adequately representative as a control station of impact/ SR stations during the flood tide. The control reference has been changed from C3 to SR2 from 1 September 2016 onwards.
- (4) Total alkalinity and heavy metals results are collected at SR2 as a control station for regular DCM monitoring.
- (5) As the access to SR6 was obstructed by the construction activities and temporary structures for Tung Chung New Town Extension, the monitoring location has been relocated to SR6A starting from 8 August 2019.
- (6) The monitoring location for SR8 is subject to further changes due to silt curtain arrangements and the progressive relocation of this seawater intake.

4.1 Action and Limit Levels

In accordance with the Manual, baseline water quality levels at the above-mentioned 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 and regular DCM 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 and regular DCM monitoring are presented in **Table 4.3**.

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

Parameter	'S	Action Level (AL)		Limit Level (Limit Level (LL)	
	Limit Levels for genera SR1A & SR8)	al water quality mon	nitoring and regular	DCM monitorin	g	
General Water Quality Monitoring	DO in mg/l (Surface, Middle & Bottom)	Surface and Middle 4.5mg/l		Surface and Middle 4.1mg/l 5mg/l for Fish Culture Zone (SR7) only		
Worldoning		Bottom 3.4mg/l		Bottom 2.7mg/l		
	Suspended Solids (SS) in mg/l	23	or 120% of upstream control	37	or 130% of upstream control	
	Turbidity in NTU	22.6	station at the same tide of the same day, whichever is higher	36.1	station at the same tide of the	
Regular	Total Alkalinity in ppm	95		99	same day,	
DCM Monitoring	Representative Heavy Metals for regular DCM monitoring (Chromium) in µg/l	0.2		0.2	whichever is higher	
	Representative Heavy Metals for regular DCM monitoring (Nickel) in µg/l	3.2		3.6		
Action and	Limit 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.
- (4) Details of selection criteria for the two heavy metals for regular DCM monitoring refer to the Detailed Plan on Deep Cement Mixing available on the dedicated 3RS website (http://env.threerunwaysystem.com/en/ep-submissions.html)
- (5) The Action and Limit Levels for the two representative heavy metals chosen will be the same as that for the intensive DCM monitoring.

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

Control Station	Impact Stations
Flood Tide	
C1	IM1, IM2, IM3, IM4, IM5, IM6, IM7, IM8, SR3
SR2 ⁽¹⁾	IM7, IM8, IM9, IM10, IM11, IM12, SR1A, SR3, SR4A, SR5A, SR6A, SR8
Ebb Tide	
C1	SR4A, SR5A, SR6A
C2	IM1, IM2, IM3, IM4, IM5, IM6, IM7, IM8, IM9, IM10, IM11, IM12, SR1A, SR2, SR3, SR7, SR8

Note:

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

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,	YSI 6920V2 (Serial No. 0001C6A7)	22 Apr 2021	Monthly EM&A Report No. 64, Appendix E
temperature, salinity and	YSI 6920V2 (Serial No. 0001CF6C)	20 May 2021	Appendix D
turbidity)	YSI ProDSS (Serial No. 17H105557)	3 Feb 2021 ⁽¹⁾	Monthly EM&A Report No. 62, Appendix D
	YSI ProDSS (Serial No. 18A104824)	25 Feb 2021 ⁽¹⁾	Monthly EM&A Report No. 62, Appendix D
	YSI ProDSS (Serial No. 15M100005)	25 Mar 2021	Monthly EM&A Report No. 63, Appendix E
	YSI ProDSS (Serial No. 16H104234)	22 Apr 2021	Monthly EM&A Report No. 64, Appendix E
	YSI ProDSS (Serial No. 16H104233)	20 May 2021	Appendix D
	YSI ProDSS (Serial No. 17E100747)	25 Mar 2021	Monthly EM&A Report No. 63, Appendix E
Digital Titrator (measurement of total alkalinity)	Titrette Bottle-top Burette, 50ml (Serial No. 10N64701)	24 May 2021	Appendix D

Note:

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

Table 4.5: Other Monitoring Equipment

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

4.3 Monitoring Methodology

4.3.1 Measuring Procedure

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

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

⁽¹⁾ The monitoring equipment was not used in the reporting period after the expiry date of the calibration certificate.

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). Accuracy check of the digital titrator was performed at least once per monitoring day.

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

Table 4.6: Laboratory Measurement/ Analysis of SS and Heavy Metals

Parameters	Instrumentation	Analytical Method	Reporting Limit
SS	Analytical Balance	APHA 2540D	2mg/l
Heavy Metals			
Chromium (Cr)	ICP-MS	USEPA 6020A	0.2μg/l
Nickel (Ni)	ICP-MS	USEPA 6020A	0.2µg/l

4.4 Summary of Monitoring Results

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

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

For SS, a testing result triggered the corresponding Action Level, and investigation was conducted accordingly.

Table 4.7 presents the summary of the SS compliance status at IM and SR stations during midebb for the reporting period.

IM1 IM2 IM3 IM4 IM5 IM6 IM7 IM8 IM9 IM10 IM11 IM12 SR1A SR2 SR3 SR4A SR5A SR6A SR7 01/05/2023 04/05/2021 06/05/2021 08/05/2021 11/05/2021 13/05/2021 15/05/2021 18/05/2021 20/05/2021 22/05/2021 25/05/2021 27/05/2021 29/05/2021 No. of result triggering 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 Action or Limit Level

Table 4.7: Summary of SS Compliance Status (Mid-Ebb Tide)

ı	Note: Detailed results are presented in Appendix C .				
l	_egend:				
Ī		The monitoring results were within the corresponding Action and Limit Levels			
		Monitoring result triggered the Action Level at monitoring station located downstream of the Project based on dominant tidal flow			
Ī		Upstream station with respect to the Project during the respective tide based on dominant tidal flow			

One of the monitoring results triggered the corresponding Action Level on 27 May 2021. In accordance with Event and Action Plan stipulated in the Manual, IEC and Contractor were informed when the corresponding Action or Limit Levels were triggered.

Investigation focusing on the case which occurred at monitoring station located downstream of the Project was carried out. Details of the Project's marine construction activities and site observations on the concerned monitoring day were collected. Findings were summarized in **Table 4.8**.

Table 4.8: Summary of Findings from Investigation of SS Monitoring Results

Date	Marine construction works nearby	from marine		Construction vessels in the vicinity	Turbidity / Silt plume observed near the monitoring station	Action or Limit Level triggered due to Project
27/05/2021	No marine construction works	Not applicable	Not applicable	No	No	No

For SS result recorded in ebb tide at SR2 on 27 May 2021 which triggered the corresponding Action Level, no silt plume was observed at this monitoring station and appropriate mitigation measures were implemented properly by contractors. No construction vessel was observed in the vicinity of SR2 during monitoring. It is noted that no marine construction activity was conducted for the whole project on that day and no abnormal observation was identified on the same day. Furthermore, all monitoring results recorded at IM stations, which are located closer to the Project Area, were within the Action and Limit Levels. Therefore, the case was considered unlikely due to the Project.

4.5 Conclusion

During the reporting period, it is noted that the vast majority of monitoring results were within their corresponding Action and Limit Levels, while only one result triggered the corresponding Action Level, and investigation was conducted accordingly.

Based on the investigation findings, the result that triggered the corresponding Action Level was not due to the Project. Therefore, the Project did not cause adverse impact at the water quality sensitive receivers. All required actions under the Event and Action Plan were followed. These case appeared to be due to natural fluctuation or other sources not related to the Project.

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 during weekly site inspection and regular environmental management meetings. These include maintaining mitigation measures properly for reclamation works including DCM works, marine filling and seawall construction as recommended in the Manual.

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 A**.

Based on updated information provided by contractors, construction waste generated in the reporting period is summarised in **Table 5.2**. Proactive measures have been undertaken during the re-configuration of T2 building. The contractor has established the recycling strategy for C&D materials with proper planning and design to maximize recycling and reuse. Dedicated recyclers were employed for different kinds of recyclable materials by the contractor, and ET and IEC have carried out site visit to recyclers' facilities to review recycling process. Recycling materials before leaving the site are weighted by a weight bridge and monitored by CCTV system. Dedicated areas for sorting of materials are established on site. Recyclable materials such as steel, reinforcement bar, structural steel, aluminum, copper, other metals and glass are sorted on-site and transported off-site for recycling. ET and IEC have carried out site audits regularly and reviewed the trip ticket system.

Table 5.2: Construction Waste Statistics

	C&D ⁽¹⁾ Material Stockpiled for Reuse or Recycle (m ³)	Reused in the Project	Reused in other		Chemical Waste (kg)	Chemical Waste (I)	General Refuse (tonne)
April 2021 ⁽²⁾⁽³⁾	*26,029	*57,644	*1,766	4,140	0	0	1,194
May 2021 ⁽²⁾⁽⁴⁾	14,776	153,950	1,444	10,375	0	2,800	1,080

Notes:

- (1) C&D refers to Construction and Demolition.
- (2) Metals, paper and/or plastics were recycled in the reporting period.
- (3) Updated figure for the previous month is reported and marked with an asterisk (*). Updated figures for earlier months will be reported in the forthcoming Quarterly and Annual EM&A Reports.
- (4) 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.

Along with the design and construction progress, further development on the treatment level/details and the re-use mode for marine sediment generated from 3RS Project has been conducted according to the EIA recommendation.

5.3 Marine Sediment Management

Marine sediment is managed according to the EIA Report, Updated EM&A Manual and Waste Management Plan 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.

Sampling works for marine sediment generated from the reclaimed land area was on-going during the reporting period. The details of the marine sediment sampling, treatment and backfilling will be reported in the subsequent EM&A Reports upon completion.

6 Chinese White Dolphin Monitoring

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

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

6.1 Action and Limit Levels

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

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

	NEL, NWL, AW, WL and SWL as a Whole
Action Level ⁽³⁾	Running quarterly ⁽¹⁾ STG < 1.86 & ANI < 9.35
Limit Level ⁽³⁾	Two consecutive running quarterly ⁽²⁾ (3-month) STG < 1.86 & ANI < 9.35

Notes: (referring to the baseline monitoring report)

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

6.2 CWD Monitoring Transects and Stations

6.2.1 Small Vessel Line-transect Survey

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

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

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

Table 0.2. Coo	iumates or mai	ISECT FILES III IV	LL, NVVL, AVV	, WE allu SWE S	uivey Aicas
Waypoint	Easting	Northing	Waypoint	Easting	Northing
		NE			
1S	813525	820900	6N	818568	824433
1N	813525	824657	7S	819532	821420
2S	814556	818449	7N	819532	824209
2N	814559	824768	8S	820451	822125
3S	815542	818807	8N	820451	823671
3N	815542	824882	9S	821504	822371
4S	816506	819480	9N	821504	823761
4N	816506	824859	10S	822513	823268
5S	817537	820220	10N	822513	824321
5N	817537	824613	11S	823477	823402
6S	818568	820735	11N	823477	824613
		NV	۷L		
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		333.33	0.0000
<u> </u>	301.100	SV	VL		
18	802494	803961	6S	807467	801137
1N	802494	806174	6N	807467	808458
2S	803489	803280	7S	808553	800329
2S 2N	803489	806720	7S 7N	808553	807377
3S	804484	802509	8S	809547	800338
3N	804484	807048	8N	809547	807396
					800423 807462
4S 4N	805478 805478	802105 807556	9S 9N	810542 810542	800

Waypoint	Easting	Northing	Waypoint	Easting	Northing
5S	806473	801250	10S	811446	801335
5N	806473	808458	10N	811446	809436

6.2.2 Land-based Theodolite Tracking Survey

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

Table 6.3: Land-based Theodolite Survey Station Details

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

6.3 CWD Monitoring Methodology

6.3.1 Small Vessel Line-transect Survey

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

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

As mentioned in **Section 6.2.1**, the transects covered NEL, NWL, 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 conditions of Beaufort 0-3 and visibility of approximately 1200 m or beyond were used for analysis of the CWD encounter rates.

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

During on-effort survey periods, the survey team recorded effort data including time, position (waypoints), weather conditions (Beaufort sea state and visibility) and distance travelled in each

series with assistance of a handheld GPS device. The GPS device also continuously and automatically logged data including time, position (latitude and longitude) and vessel speed throughout the entire survey.

When CWDs were seen, the survey team was taken off-effort, the dolphins were approached and photographed for photo-ID information (using a Canon 7D [or similar] camera and long 300 mm+telephoto lens), then followed until they were lost from view. At that point, the boat returned (off effort) to the survey line at the closest point after obtaining photo records of the dolphin group and began to survey on effort again.

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

6.3.2 Photo Identification

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

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

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

6.3.3 Land-based Theodolite Tracking Survey

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

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

of CWD, all vessels that moved within 2-3km of the station were tracked, with effort made to obtain at least two positions for each vessel.

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

6.4 Monitoring Results and Observations

6.4.1 Small Vessel Line-transect Survey

Survey Effort

Within this reporting period, two complete sets of small vessel line-transect surveys were conducted on the 6, 11, 20, 21, 25, 26, 27 and 28 May 2021, covering all transects in NEL, NWL, AW, WL and SWL survey areas for twice.

A total of around 450.37km of survey effort was collected from these surveys and around 83.8% 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 C**.

Sighting Distribution

In May 2021, 12 sightings with 31 dolphins were sighted. Amongst these sightings, 11 sightings with 29 dolphins are 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 C**.

Distribution of all CWD sightings recorded in May 2021 is illustrated in **Figure 6.3**. In WL, two CWD sightings were recorded at Tai O and one sighting was recorded at Peaked Hill. In SWL, the majority of the CWD sightings were recorded in the western part of the survey area. No CWD sightings were recorded in neither NEL nor NWL survey areas during the reporting period.

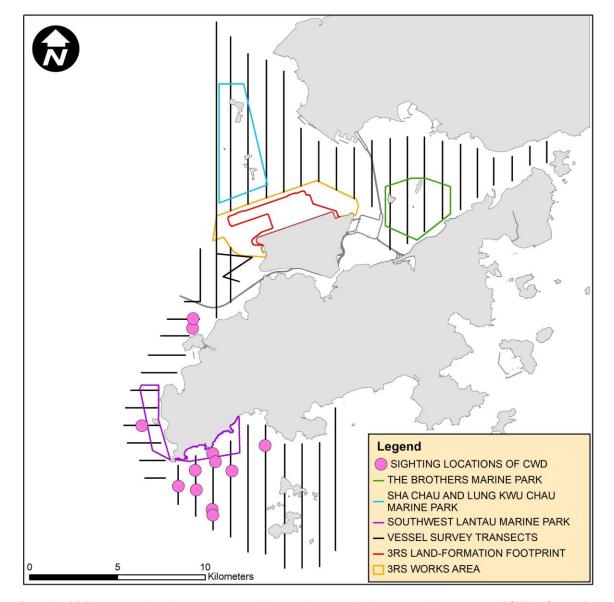


Figure 6.3: Sightings Distribution of Chinese White Dolphins

Remarks: (1) Please note that there are 12 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 May 2021, a total of around 377.52 km of survey effort were conducted under Beaufort Sea State 3 or below with favourable visibility, whilst a total number of 11 on-effort sightings with 29 dolphins were sighted under such condition. Calculation of the encounter rates for the month are shown in **Appendix C**.

For the running quarter of the reporting period (i.e., from March to May 2021), a total of around 1130.01 km of survey effort were conducted under Beaufort Sea State 3 or below with favourable visibility, whilst a total number of 26 on-effort sightings and a total number of 70 dolphins from oneffort sightings were obtained under such condition. Calculation of the running quarterly encounter rates are shown in **Appendix C**.

The STG and ANI of CWD in the whole survey area (i.e. NEL, NWL, AW, WL and SWL) during the month of May 2021 and during the running quarter are presented in **Table 6.4** below and compared with the Action Level. Although the running quarterly encounter rate ANI fall below the Action Level, the Action Level is not triggered as the running quarterly STG remain above the Action Level.

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

	Encounter Rate (STG)	Encounter Rate (ANI)
May 2021	2.91	7.68
Running Quarter from March to May 2021 ⁽¹⁾	2.30	6.19
Action Level	Running quarterly ⁽¹⁾ ST	G < 1.86 & ANI < 9.35

Note: (1) Running quarterly encounter rates STG & ANI were calculated from data collected in the reporting period and the two preceding survey months, i.e. the data from March to May 2021, 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 May 2021, 12 groups of 31 dolphins in total were sighted, and the average group size of CWDs was 2.58 dolphins per group. Sightings with small group size (i.e. 1-2 dolphins) were dominant. There were no CWD sightings with large group size (i.e. 10 or more dolphins).

Activities and Association with Fishing Boats

Two CWD sightings were recorded engaging in feeding activities in May 2021 but no association with operating fishing boats was observed.

Mother-calf Pair

In May 2021, there was one CWD sighting recorded with the presence of mother-and-unspotted juvenile pair of which the sighting was recoded in SWL.

6.4.2 Photo Identification

In May 2021, a total number of 18 different CWD individuals were identified for totally 21 times. A summary of photo identification works is presented in **Table 6.5**. Representative photos of these individuals are given in **Appendix C**.

Table 6.5: Summary of Photo Identification

Individual ID	Date of Sighting (dd-mmm-yy)	Sighting Group No.	Area	Individual ID	Date of Sighting (dd-mmm-yy)	Sighting Group No.	Area
NLMM061	26-May-21	2	SWL	WLMM004	25-May-21	7	SWL
SLMM003	25-May-21	6	SWL		26-May-21	3	SWL
SLMM010	25-May-21	4	SWL	WLMM007	25-May-21	4	SWL
	28-May-21	2	WL	WLMM018	25-May-21	7	SWL
SLMM030	25-May-21	5	SWL	WLMM061	11-May-21	1	WL
SLMM034	25-May-21	6	SWL	WLMM063	25-May-21	7	SWL
SLMM037	25-May-21	6	SWL		26-May-21	3	SWL
SLMM045	28-May-21	1	WL	WLMM065	26-May-21	2	SWL
SLMM049	25-May-21	4	SWL	WLMM079	26-May-21	3	SWL
SLMM052	25-May-21	6	SWL	WLMM135	26-May-21	3	SWL
WLM0027	25-May-21	3	SWL				

6.4.3 Land-based Theodolite Tracking Survey

Survey Effort

Land-based theodolite tracking surveys were conducted at SC on 13 May 2021 and at LKC on 25 May 2021, with a total of two days of land-based theodolite tracking survey effort accomplished in this reporting period. No CWD groups were tracked during the reporting period. Information of survey effort and CWD groups are presented in **Table 6.6**. Details of the survey effort are presented in **Appendix C**.

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

Land-based Station	No. of Survey Sessions	Survey Effort (hh:mm)	No. of CWD Groups Sighted	CWD Group Sighting per Survey Hour
Lung Kwu Chau	1	6:00	0	0
Sha Chau	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. During this reporting period, the C-POD was retrieved on 20 May 2021 and the F-POD was deployed and positioned at south of Sha Chau Island inside the SCLKCMP (Figure 6.5). 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. Acoustic data would be reviewed to give an indication of CWDs 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, silt curtains were in place by the contractor for marine filling, in which dolphin observers were deployed by contractor in accordance with the MMWP. Overall, 2 to 5 dolphin observation stations and teams of at least two dolphin observers were deployed by the contractors for continuous monitoring of the DEZ for DCM works and seawall construction works in accordance with the DEZ Plan. Trainings for the proposed dolphin observers on the implementation of MMWP and DEZ monitoring were provided by the ET prior to the aforementioned works, with a cumulative total of 704 individuals being trained and the training records kept by the ET. From the contractors' MMWP observation records, no dolphin or other marine mammals were observed within or around the silt curtains. As for DEZ monitoring records, no dolphin or other marine mammals were observed within or around the DEZs in 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 as scheduled. 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 were carried out on a weekly basis to monitor the implementation of proper environmental pollution control and mitigation measures for the Project. The weekly site inspection schedule of the construction works is provided in **Appendix B**. Biweekly site inspections were also conducted by the IEC. Besides, *ad-hoc* site inspections were 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 were given when necessary to ensure the construction workforce were familiar with relevant procedures, and to maintain good environmental performance on site. Regular toolbox talks on environmental issues were organised for the construction workforce by the contractors to ensure understanding and proper implementation of environmental protection and pollution control mitigation measures.

A summary of implementation status of the environmental mitigation measures for the construction phase of the Project during the reporting period is provided in **Appendix A**.

7.2 Landscape and Visual Mitigation Measures

Implementation of applicable landscape and visual mitigation measures (reference to the environmental protection measures CM1 – CM10 in **Appendix A**) was monitored in accordance with the Manual. All measures undertaken by both the contractor and the landscape contractor during the construction phase and first year of the operation phase shall be audited by a landscape architect, as a member of the ET, on a regular basis to ensure compliance with the

intended aims of the measures. Site inspections shall be undertaken at least once every two months during the operation phase.

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

Table 7.1: Landscape and Visual – Construction Phase Audit Summary

Landscape and Visual Mitigation Measures during Construction	Implementation Status	Relevant Contract(s) in the Reporting Period
CM1- The construction area and contractor's temporary works areas shall be minimised to avoid impacts on adjacent landscape.	The implementation of mitigation measures were checked by ET during weekly site inspection and clarified by the Contractors during the monthly Environmental Management Meetings. Implementation of the measures	3RS Project 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	Tree Protection Specifications have been provided in the relevant Contract Specifications respectively for implementation by the Contractors under the Project.	3302, 3503, 3508, 3602, 3801
Protection Specification shall be provided in the Contract Specification. Under this specification, the Contractor shall be required to submit, for approval, a detailed working method statement for the protection of trees prior to undertaking any works adjacent to all retained trees, including trees in contractor's works areas	The Contractors' performance on the implementation of the trees maintenance and protection measures were observed and checked by the ET weekly during construction period.	3802 (To be implemented)

CM 10 – Land formation works shall

hydroseeding around taxiways and runways as soon as practical

be followed with advanced

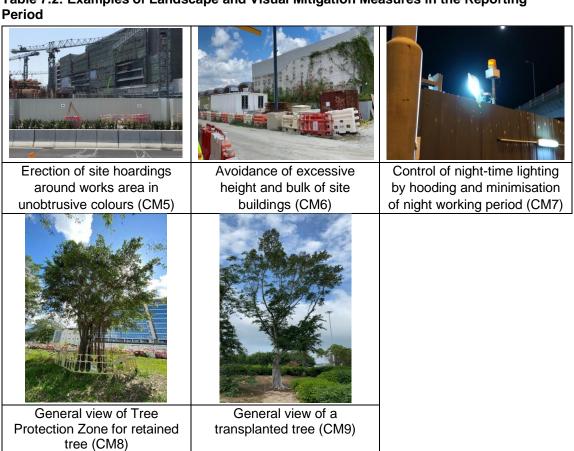
Landscape and Visual Implementation Status Relevant **Mitigation Measures during** Contract(s) in Construction the Reporting **Period** CM9 - Trees unavoidably affected Tree Transplanting Specifications have been provided 3503, 3508, 3801 by the works shall be transplanted in the relevant Contract Specifications respectively for where practical. A detailed Tree implementation by the Contractors under the Project 3802 (To be Transplanting Specification shall be where trees will unavoidably be affected by the implemented) provided in the Contract construction works. Specification, if applicable. Sufficient time for necessary tree The Contractors were required to submit Method root and crown preparation periods Statements for tree transplanting prior to the shall be allowed in the project transplanting works. Tree inspections were conducted programme 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 were currently monitored by ET annually.

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

soon as practicable.

To be implemented around taxiways and runways as

To be implemented



In accordance with the 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 and transplanted trees under the Project were 98 and 14, respectively. A works area including 4 retained trees was handed over from Contract 3801 to Contract 3508 during the reporting period. Moreover, Contract 3801 has reviewed their initial tree survey areas and confirmed that some of the surveyed areas were not to be their works areas and therefore 41 retained trees were excluded from the Project. One retained tree was removed due to safety concern of Airport Express Line (AEL) operation. Details of the retained trees, transplanted trees and to-be-transplanted trees under the Project are summarized in **Table 7.5**: . Photos of transplanted trees are presented in **Table 7.7**.

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. Inform IEC and AAHK / PM. Discuss remedial actions with IEC, AAHK / PM and Contractor. Monitor remedial actions until rectification has been completed.	Contractor on possible remedial measures. Advise AAHK / PM on	Notify Contractor. Ensure remedial measures are properly implemented.	Amend working methods to prevent recurrence of non-conformity. Rectify damage and undertake additional action necessary.
Repeated Non-conformity	Identify source. Inform IEC and AAHK / PM. Increase monitoring frequency. Discuss remedial actions with IEC, AAHK / PM and Contractor. Monitor remedial actions until rectification has been completed. If non-conformity stops, cease additional monitoring.	Check monitoring report. Check Contractor's working method. Discuss with ET and Contractor on possible remedial measures. Advise AAHK / PM on effectiveness of proposed remedial measures. Supervise implementation of remedial measures.	Notify Contractor. Ensure remedial measures area properly implemented.	Amend working methods to prevent recurrence of 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	ted (nos.)	To-be-transplanted
		Establishment Period	Maintenance Period	(nos.)
3302	9	0	0	0
3503	19	6	3	0
3508 ⁽¹⁾	25	0	0	12
3602	2	0	0	0
3801	43	0	5	0
Sub-total	98	6	8	12
Provisional				
Contract	Retain (nos.)	Transplant	ted (nos.)	To-be-transplanted (nos.)
3508 ⁽¹⁾	130	0		10
Sub-total	130	0		10
Grand Total	228	14	1	22

Notes:

(1) As some of the site areas have been handed over to Contract 3508, Contractor of Contract 3508 is currently managing some of the trees. 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.

Summary of the updated transplanted trees and photos are presented in **Table 7.6** and **Table 7.7** respectively.

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	Establishment period 4 May 2018 – May 2019	Contract 3801	Next inspection will be conducted in February 2022. Photos of the last
		Long Term Management period Jun 2019 – May 2028	Southern Landside Petrol Filling Station	inspection in February 2021 can be referred to Table 7.7 of the Construction Phase Monthly EM&A
CT1253	4 May 2018	Establishment period 5 May 2018 – May 2019	Contract 3801	Report No.62.
		Long Term Management period Jun 2019 – May 2028	Southern Landside Petrol Filling Station	
T835	22 Jan 2020	Establishment period	Contract 3503	Next inspection will be conducted in
		23 Jan 2020 – Jan 2021		February 2022. Photos of the last
		Long Term Management period Feb 2021 – Jan 2030		inspection in February 2021 can be referred to Table 7.7 of the Construction Phase Monthly EM&A
T836	13 Dec 2019	Establishment period 14 Dec 2020 – Jan 2021	Contract 3503	Report No.62.
		Long Term Management period Feb 2021 – Jan 2030		
T838	T838 22 Jan 2020	Establishment period 23 Jan 2020 – Jan 2021	Contract 3503	_
		Long Term Management period Feb 2021 – Jan 2030		
T812	21 Dec 2020	Establishment period 22 Dec 2020 – Dec 2021	Contract 3503	Next inspection will be conducted in June 2021. Photos of the last
T814	20 Dec 2020	Establishment period 21 Dec 2020 – Dec 2021	Contract 3503	—inspection in May 2021 were shown in Table 7.7.
T815	15 Dec 2020	Establishment period 16 Dec 2020 – Dec 2021	Contract 3503	
T829	18 Dec 2020	Establishment period 19 Dec 2020 – Dec 2021	Contract 3503	_
T830	14 Dec 2020	Establishment period 15 Dec 2020 – Dec 2021	Contract 3503	_
T831	19 Dec 2020	Establishment period 20 Dec 2020 – Dec 2021	Contract 3503	_
CT1194	4 May 2018	Establishment period 5 May 2018 – May 2019	Contract 3801	NA
		Long Term Management period Jun 2019 – May 2028	Southern Landside Petrol Filling Station	Uprooted and collapsed due to Typhoon Higos on 18 August 2020. Tree removal was conducted as recommended by tree specialist of the contractor of Southern Landside Petrol Filing Station.

Tree ID	Transplant Date	Management Stage	Management Agency	Remarks
CT1794	3 May 2018	Establishment period 4 May 2018 – May 2019	Contract 3801	NA
		Long Term Management period Jun 2019 – May 2028	AsiaWorld-Expo	The tree within the land parcel was acquired by the government for construction of emergency hospital to handle COVID19 pandemic at AsiaWorld-Expo. The tree was felled in late 2020.
CT1795	3 May 2018	Establishment period 4 May 2018 – May 2019	Contract 3801	NA
		Long Term Management period Jun 2019 – May 2028	AsiaWorld-Expo	The tree within the land parcel was acquired by the government for construction of emergency hospital to handle COVID19 pandemic at AsiaWorld-Expo. The tree was felled in late 2020.

T812
T814
T815
T829
T830
T831

Table 7.7: Photos of the Existing Transplanted Trees

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 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, which has been presented in Appendix A Implementation Schedule of the approved CARs for T2 EPSS, 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 May 2021. 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 7.8**.

The daily movement of all SkyPier HSFs, including those not using the diverted route, in this reporting period (i.e., 2 to 3 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 Q3 to Q4 2021. The captains were informed on the issue and ET will continue to closely monitor the implementation of the SkyPier Plan in the period.

Table 7.8: Summary of Key Audit Findings against the SkyPier Plan

Requirements in the SkyPier Plan	1 to 31 May 2021
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
Daily Cap for all SkyPier HSFs including those not using diverted route	2 to 3 daily movement (within the maximum daily cap - 125 daily movements)

7.5 Audit of Construction and Associated Vessels

The updated Marine Travel Routes and Management Plan for Construction and Associated Vessel (MTRMP-CAV) was submitted and approved in May 2020 by EPD under EP Condition 2.9. The approved Plan is available on the dedicated website of the Project.

ET carried out the following actions during the reporting period:

Two skipper training sessions were held for contractors' concerned skippers of relevant
construction vessels to familiarize them with the predefined routes; general education on
local cetaceans; guidelines for avoiding adverse water quality impact; the required
environmental practices / measures while operating construction and associated vessels
under the Project; and guidelines for operating vessels safely in the presence of CWDs.
The list of all trained skippers was properly recorded and maintained by ET.

- Five 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.
- Based on the updated record, 8 skippers were trained by ET and 15 skippers were trained by contractors' Environmental Officers in the previous period. In this reporting period, 30 skippers were trained by ET and 7 skippers were trained by contractors' Environmental Officers. In total, 1784 skippers were trained from August 2016 to May 2021.
- 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 24-hour DEZs with a 250m radius for marine works were established and implemented by the contractors for DCM works and seawall construction according to their Method Statement for DEZ Monitoring that followed the specifications and requirements of the DEZ Plan.

During the reporting period, ET was notified that no dolphin sightings were recorded within the DEZ by the contractors. The ET checked the dolphin sighting record and relevant records by the contractors to audit the implementation of 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 7.9**.

Table 7.9: 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	Accepted / approved by EPD
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	_
2.13	Fisheries Management Plan	<u> </u>
2.14	Egretry Survey Plan	_
2.15	Silt Curtain Deployment Plan	_

EP Condition	Submission	Status
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 environmental licenses and permits which are valid in the reporting period are presented in **Appendix E**.

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

7.9.1 Complaints

Complaint received in the previous reporting period

For the complaint received on 20 April 2021 regarding alleged dusty and muddy vehicles from 3RS Project at Tuen Mun Public Cargo Working Area (TMPCWA), the case was investigated by ET in accordance with the Manual and the Complaint Management Plan of the Project. The ET requested the related 3RS contractors to provide more information regarding the complaint. According to the information provided by the contractors, the ET identified the relevant contractor and noted the alleged vehicle was a cement truck transported by RoRo barge service running between the 3RS reclaimed land and TMPCWA. Based on ET's regular site inspections on this contract in April 2021, it was observed that the contractor had conducted wheel washing on vehicles prior to leaving the works area.

An ad hoc inspection at TMPCWA was arranged after receiving the complaint. While no RoRo barge was observed at TMPCWA during the inspection, soil and sand were observed on the road surface. Another ad hoc inspection at North Eastern Quay on 3RS reclaimed land, the location of the said RoRo barge service, was conducted in early May 2021 where dusty surfaces at the quay area was observed. The ET reminded the quay-managing contractor to provide adequate water spraying at the quay area. Having said that, it was noted that all air quality monitoring results of the Project in April 2021 were within the corresponding Action and Limit Levels at all monitoring stations.

To follow up, individual contractors were reminded to properly wash the wheels of outgoing trucks from their respective construction sites. In the short term, a section of haul road connected to the quay would be paved to reduce fugitive dust generation and manual wheel washing would be implemented continuously. In the long term, an enhanced wheel washing measure is planned at both the North Eastern and Western Quay on the 3RS reclaimed land. ET and IEC would continue to monitor the wheel washing performance of all the contractors during the environmental site inspections. The complaint case was considered closed.

Complaint received in this reporting period

For the complaint received on 14 May 2021 regarding dust issue at 3RS construction site area, the case was investigated by ET in accordance with the Manual and the Complaint Management Plan of the Project. The anonymous complainant provided photos and did not provide any details on the complaint such as time and location of the observation. The ET recognized the concerned area and identified one related 3RS contractor and requested the contractor to provide information regarding the complaint. The contractor replied they had enhanced dust suppression measures by installing 360-degree water sprinklers. They also provided water spraying record of May and their dust control management plan. After receiving the complaint, a joint inspection by ET, IEC and AAHK was arranged, in which sprinklers and water trucks were both observed operating, and the installation of more sprinklers was underway at the concerned area. Nonetheless, ET reminded the contractor to enhance dust mitigation measures at the concerned area and review the dust control management plan regularly. Proper dust mitigation measures were observed during another joint inspection by ET, AAHK and EPD in late May 2021. In parallel, ET checked the daytime wind speed for 12 May 2021 at Chek Lap Kok wind station of Hong Kong Observatory. It was noted that the wind speed reached 26-27km/hr for several periods of time which might suggest the presence of sudden gust at the concerned area. Moreover, all air quality monitoring results of the Project in May 2021 were within the corresponding Action and Limit Levels at all monitoring stations. In view of the information mentioned above, the dust generation might be caused by sudden gust. Having said that, ET reminded the contractor to regularly review and update their dust control management plan and continue implementing dust mitigation measures according to the plan. ET and IEC would continue to monitor the related contractor's dust mitigation measures during the environmental site inspections. Hence, the complaint case was considered closed.

7.9.2 Notifications of Summons or Status of Prosecution

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

7.9.3 Cumulative Statistics

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

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

8.1 Construction Programme for the Coming Reporting Period

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

Reclamation Works:

Contract 3206 Main Reclamation Works

- DCM works;
- Land-based ground improvement works;
- Seawall construction;
- Marine filling; and
- Sorting and reuse of inert waste from other 3RS contracts.

Airfield Works:

Contract 3301 North Runway Crossover Taxiway

- · Cable ducting works; and
- Paving works.

Contract 3302 Eastern Vehicular Tunnel Advance Works

- Cable laying and ducting works;
- Backfilling and reinstatement works; and
- · Piling and structure works;

Contract 3303 Third Runway and Associated Works

- Land-based ground improvement works;
- Operation of asphalt plant;
- Footing and utilities work; and
- Cable laying and ducting works.

Contract 3305 Airfield Ground Lighting System

- Genset installation; and
- Site establishment.

Contract 3307 Fire Training Facility

- Architectural, Builder's and Finishing works;
- Drainage and utilities works; and
- Building construction.

Third Runway Concourse:

Contract 3403 New Integrated Airport Centres Building and Civil Works

- Architectural, Builder's Work and Finishing works;
- Underground utilities construction;
- · Footing construction; and
- Pre-boring and sheetpiling works.

Contract 3405 Third Runway Concourse Foundation and Substructure Works

- Foundation works;
- Piling work;
- Excavation and backfilling; and
- Road formation.

Terminal 2 Expansion:

Contract 3503 Terminal 2 Foundation and Substructure Works

- T2 re-configuration;
- Excavation works;
- Utilities and road work; and
- Piling and structure works.

Contract 3508 Terminal 2 Expansion Works

- Excavation and footing construction;
- Site formation;
- Piling work; and
- Builders' works.

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

Contract 3601 New Automated People Mover System (TRC Line)

- Rebar fixing;
- Formwork erection and removal;
- Guidebeam installation; and
- Concreting work.

Contract 3602 Existing APM System Modification Works

- Car modification; and
- Concreting work.

Construction Support (Facilities):

Contract 3721 Construction Support Infrastructure Works

- Excavation and backfilling;
- Laying of drainage pipes and ducts; and
- Road works.

Contract 3722 Construction Support Facilities

- Foundation works;
- Erection of superstructure; and
- Site establishment.

Contract 3723 Construction Support Facilities

- Foundation works;
- Erection of superstructure; and
- Site establishment.

Airport Support Infrastructure:

Contract 3801 APM and BHS Tunnels on Existing Airport Island

- Formwork and rebar fixing;
- Construction of working platform;
- Cofferdam for shaft;
- Site clearance; and
- Demolition works.

Contract 3802 APM and BHS Tunnels and Related Works

- Construction of Airside Fire Station and marine sediment treatment plant;
- Installation of sheet pipes and dewatering well;
- Pre-drilling; and
- Ducting works.

Construction Support (Services / Licenses):

Contract 3901A Concrete Batching Facility

- Plant operation; and
- Material conveyor belt construction.

Contract 3901B Concrete Batching Facility

- Plant operation; and
- Foundation works for conveyor belt.

8.2 Key Environmental Issues for the Coming Reporting Period

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

- Generation of dust from construction works and stockpiles;
- Noise from operating equipment and machinery on-site;
- Generation of site surface runoffs and wastewater from activities on-site;
- Water quality from DCM works and marine filling;
- DEZ monitoring for ground improvement works (DCM works) and 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 B**.

8.4 Review of the Key Assumptions Adopted in the EIA Report

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

9 Conclusion and Recommendation

The key activities of the Project carried out in the reporting period included reclamation works and land-based works. Works in the reclamation areas included DCM works, marine filling, seawall and facilities construction, together with runway and associated works. Land-based works on existing airport island involved mainly airfield works, foundation and substructure work for Terminal 2 expansion, modification and tunnel work for APM and BHS systems, and preparation work for utilities, with activities include site establishment, site office construction, road and drainage works, cable ducting, demolition of existing facilities, 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.

One monitoring result of construction noise exceeded the relevant Limit Level, and the corresponding investigation was conducted as stipulated in the EM&A programme. The investigation findings concluded that the exceedance was not due to the Project.

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

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 2 to 3 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. Training has 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

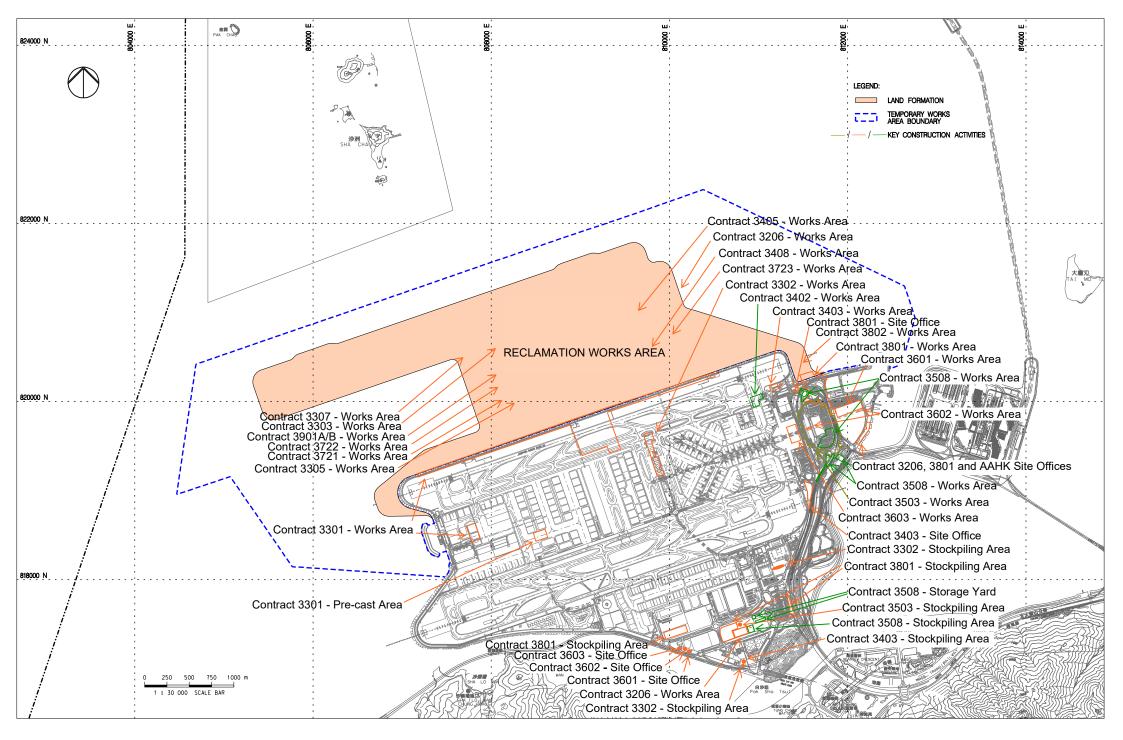
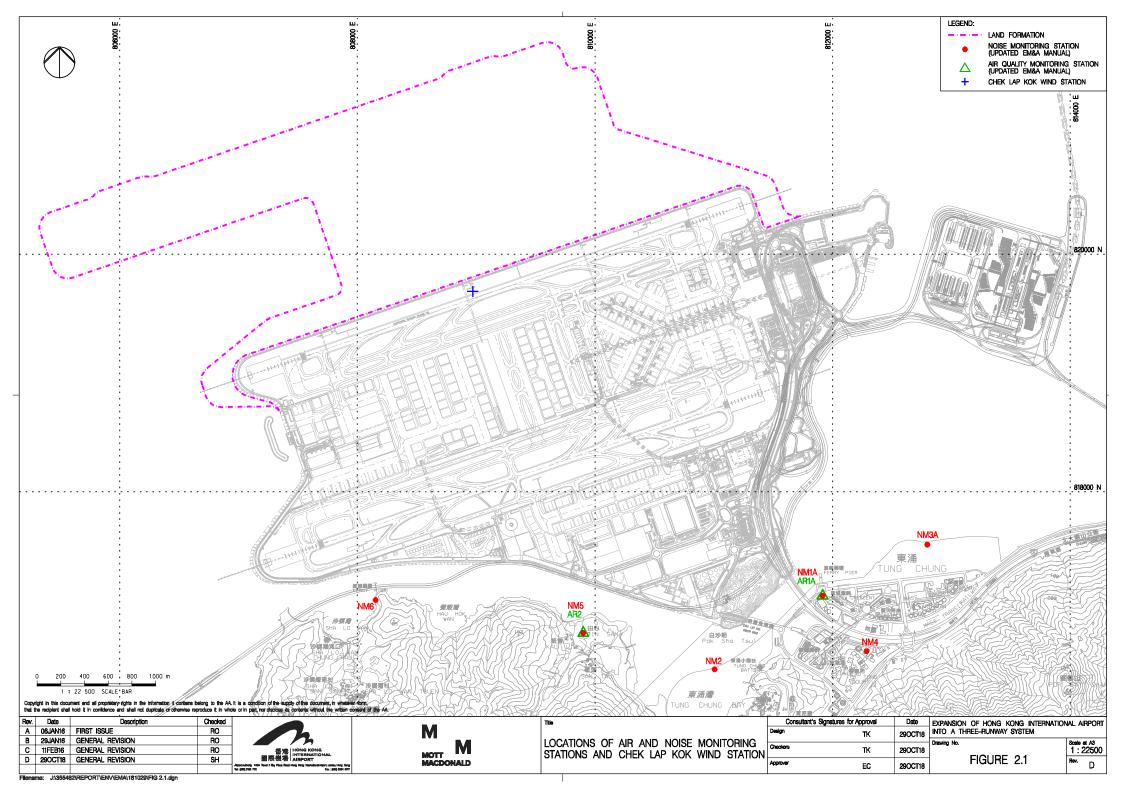
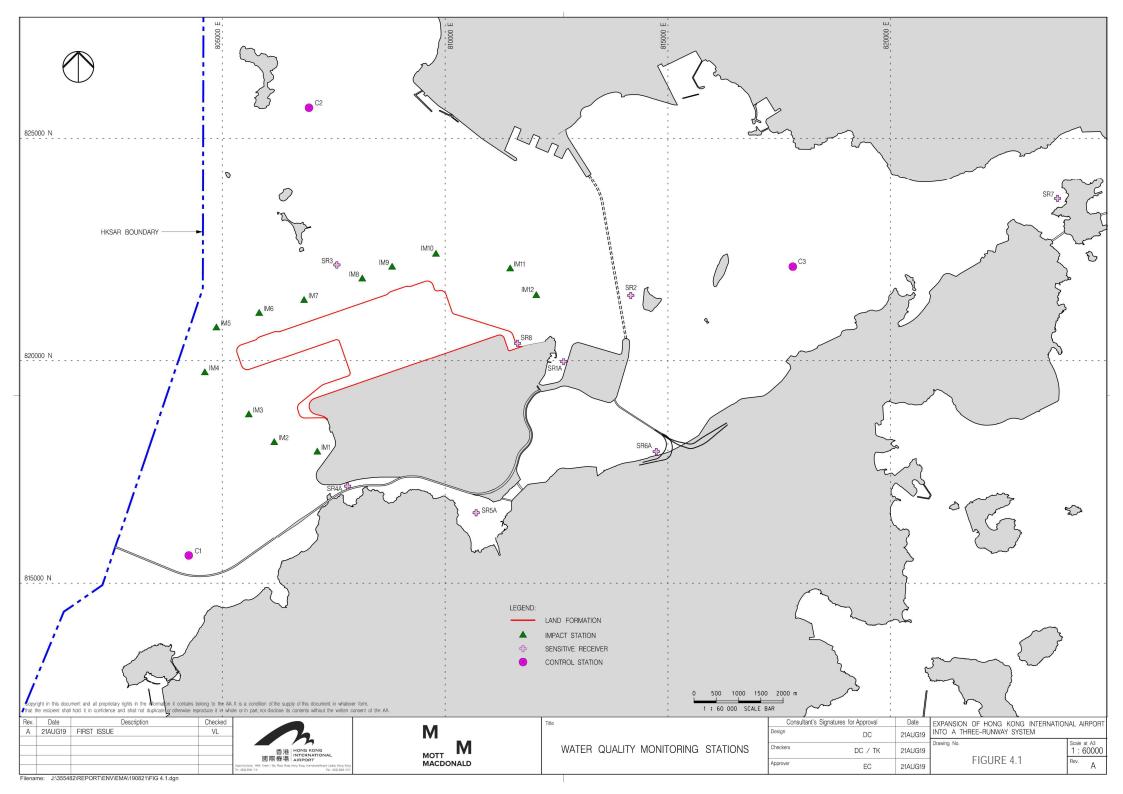
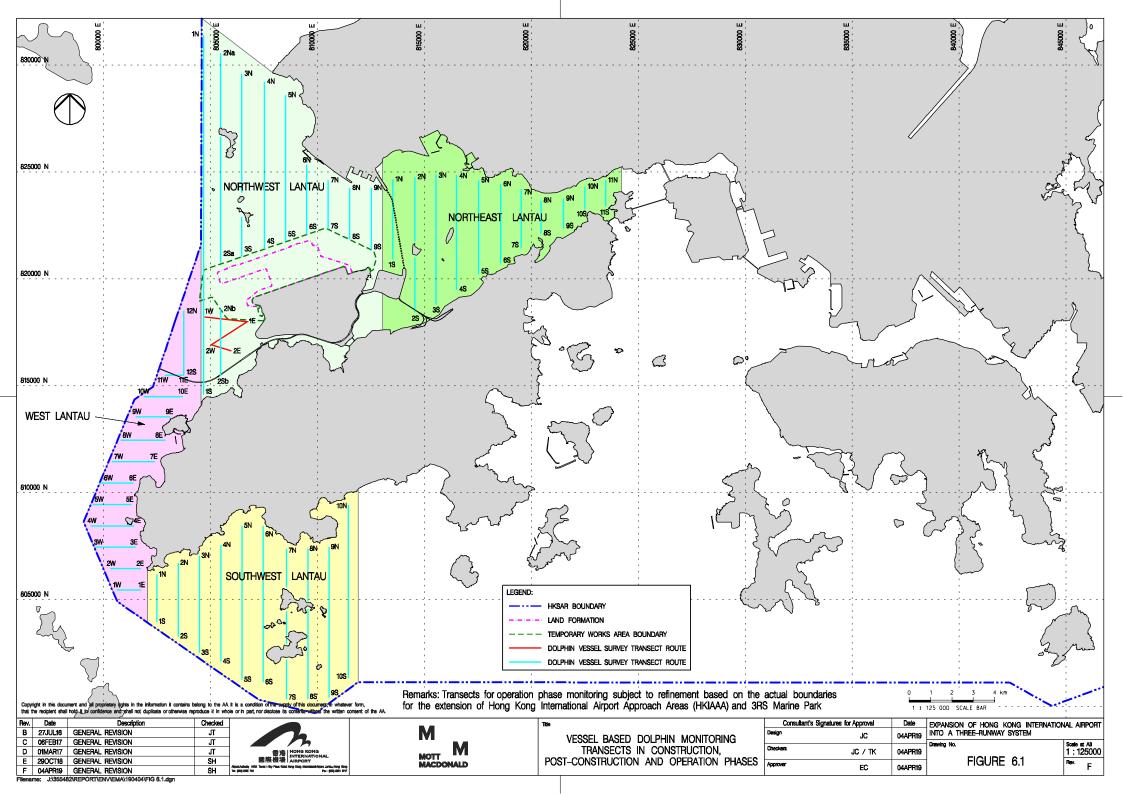
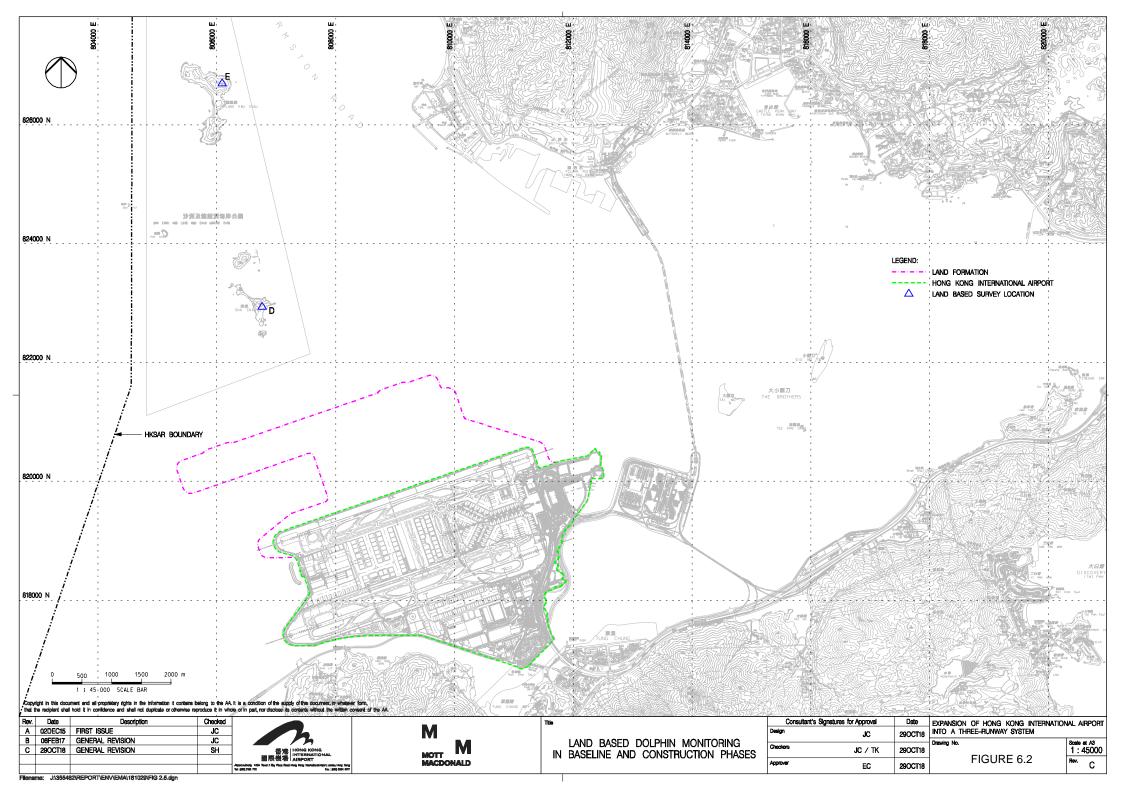


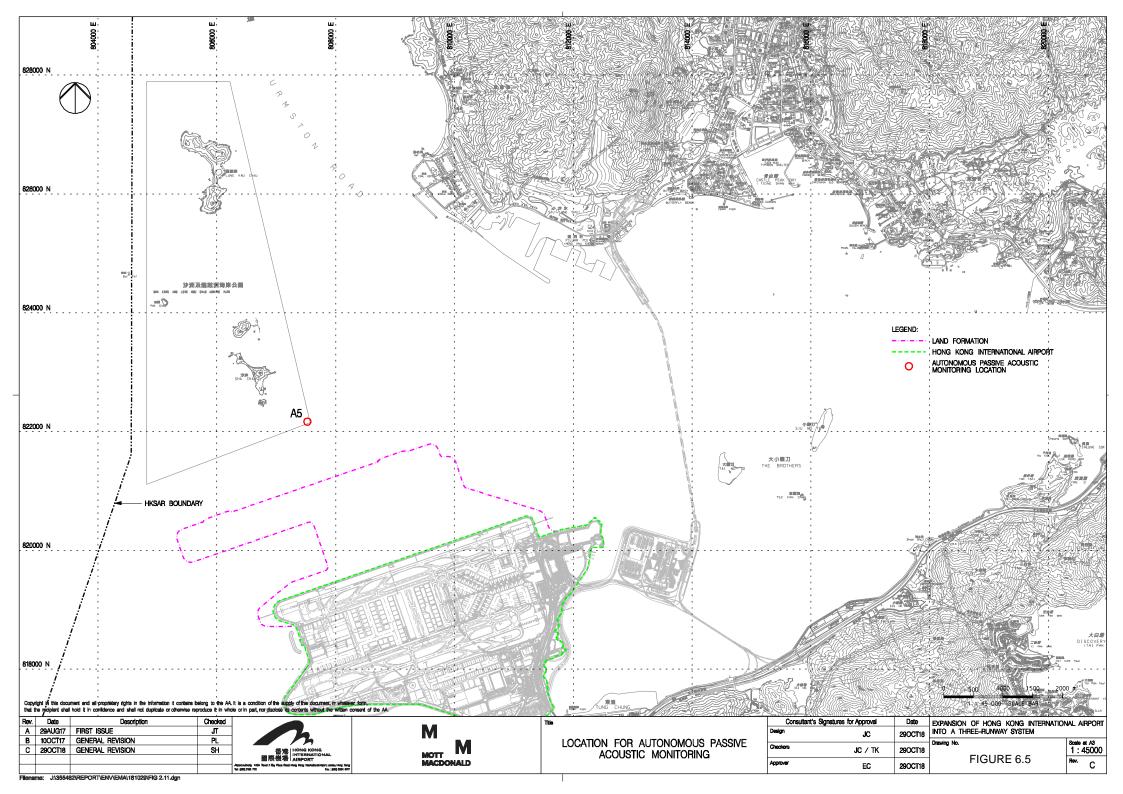
FIGURE 1.1 LOCATIONS OF KEY CONSTRUCTION ACTIVITIES











Appendix A. 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	-	 Covering of at least 80% of the stockpiling area by impervious sheets. Water spraying of all dusty materials immediately prior to any loading transfer operation so as to keep the dusty material wet during material handling. 	Within construction site / Duration of the construction phase	I
5.2.6.4	2.1	-	Dust control practices as stipulated in the Air Pollution Control (Construction Dust) Regulation should be adopted. These practices include: Good Site Management 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
			 Exposed Earth Exposed earth should be properly treated by compaction, hydroseeding, vegetation planting or seating with latex, vinyl, bitumen within six months after the last construction activity on the site or part of the site where the exposed earth lies. 	Within construction site / Duration of the construction phase	I

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



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	I
		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	1
		 Before debris is dumped into a chute, water should be sprayed so that it remains wet when it is dumped. Transport of Dusty Materials Vehicle used for transporting dusty materials/spoils should be covered with tarpaulin or similar material. The cover should extend over the edges of the sides and tailboards. 	Within construction site / Duration of the construction phase	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	1
		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	I
		 Immediately before leaving the construction site, every vehicle should be washed to remove any dusty materials from its body and wheels; and 	Within construction site / Duration of the construction phase	
		• Where a vehicle leaving the construction site is carrying a load of dusty materials, the load should be covered entirely by clean impervious sheeting to ensure that the dusty materials do not leak from the vehicle.		
		Site hoarding 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.		1
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:	Within Concrete Batching Plant / Duration of the construction phase	I
	2.1	2.1 -	All dusty materials should be sprayed with water immediately prior to any loading or transfer operation so as to keep the dusty material wet. Debris Handling	Loading, Unloading or Transfer of Dusty Materials • All dusty materials should be sprayed with water immediately prior to any loading or transfer operation site / Duration of the so as to keep the dusty material wet. 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 • Before debris is dumped into a chute, water should be sprayed so that it remains wet when it is dumped. Transport of Dusty Materials • Vehicle used for transporting dusty materials/spoils should be covered with tarpaulin or similar material. The cover should extend over the edges of the sides and tailboards. 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. 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; • Immediately before leaving the construction site, every vehicle should be washed to remove any dusty materials from its body and wheels; and • Where a vehicle leaving the construction site exit per vehicle should be washed to remove any dusty materials from its body and wheels; and • Where a vehicle leaving the construction site is carrying a load of dusty materials do not leak from the vehicle. 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. **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 Cament Works (Concrete Batching Plant) BPM 3/2 as well as in the futu



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation 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; 		
			 Vents of all silos shall be fitted with fabric filtering system to meet the required emission limit; 		
			 Vents of cement/PFA weighing scale shall be fitted with fabric filtering system to meet the required emission limit; and 		
			 Seating of pressure relief valves of all silos shall be checked, and the valves re-seated if necessary, before each delivery. 		
			Other raw materials	Within Concrete	I
			 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; 	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, stock piles and material discharge points;		
			 All receiving hoppers for unloading relevant materials shall be enclosed on three sides up to 3 m above the unloading point. In no case shall these hoppers be used as the material storage devices; 		
			• The belt conveyor for handling materials shall be enclosed on top and two sides with a metal board at the bottom to eliminate any dust emission due to wind-whipping effect. Other type of enclosure will also be accepted by EPD if it can be demonstrated that the proposed enclosure can achieve same performance;		
			 All conveyor transfer points shall be totally enclosed. Openings for the passage of conveyors shall be fitted with adequate flexible seals; 		
			 Scrapers shall be provided at the turning points of all conveyors to remove dust adhered to the belt surface; 		
			 Conveyors discharged to stockpiles of relevant materials shall be arranged to minimize free fall as far as practicable. All free falling transfer points from conveyors to stockpiles shall be enclosed with chute(s) and water sprayed; 		
			 Aggregates with a nominal size less than or equal to 5 mm should be stored in totally enclosed structure such as storage bin and should not be handled in open area. Where there is sufficient buffer area surrounding the concrete batching plant, ground stockpiling may be used; 		



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; 		
			 Aggregates with a nominal size greater than 5 mm should preferably be stored in a totally enclosed structure. If open stockpiling is used, the stockpile shall be enclosed on three sides with the enclosure wall sufficiently higher than the top of the stockpile to prevent wind whipping; and 		
			■ The opening between the storage bin and weighing scale of the materials shall be fully enclosed.		
			Loading of materials for batching	Within Concrete	I
			Concrete truck shall be loaded in such a way as to minimise airborne dust emissions. The following control measures shall be implemented:	Batching Plant / Duration of the	
			(a) Pre-mixing the materials in a totally enclosed concrete mixer before loading the materials into the concrete truck is recommended. All dust-laden air generated by the pre-mixing process as well as the loading process shall be totally vented to fabric filtering system to meet the required emission limit; and	construction phase	
			(b) If truck mixing batching or other types of batching method is used, effective dust control measures acceptable to EPD shall be adopted. The dust control measures must have been demonstrated to EPD that they are capable to collect and vent all dust-laden air generated by the material loading/mixing to dust arrestment plant to meet the required emission limit.		
			The loading bay shall be totally enclosed during the loading process.		
			Vehicles • All practicable measures shall be taken to prevent or minimize the dust emission caused by vehicle movement; and	Within Concrete Batching Plant / Duration of the	I
			 All access and route roads within the premises shall be paved and adequately wetted. 	construction phase	
			Housekeeping	Within Concrete	I
			 A high standard of housekeeping shall be maintained. All spillages or deposits of materials on ground, support structures or roofs shall be cleaned up promptly by a cleaning method acceptable to EPD. Any dumping of materials at open area shall be prohibited. 	Batching Plant / Duration of the construction phase	
5.2.6.6	2.1	-	Best Practices for Asphaltic Concrete Plant	Within Concrete	1
			The relevant best practices for dust control as stipulated in the Guidance Note on the Best Practicable Means for Tar and Bitumen Works (Asphaltic Concrete Plant) BPM 15 (94) as well as in the future Specified Process licence should be adopted. These include:	Batching Plant / Duration of the construction phase	
			Design of Chimney		
			• The chimney shall not be less than 3 metres plus the building height or 8 metres above ground level, whichever is the greater;		
			■ The efflux velocity of gases from the main chimney shall not be less than 12 m/s at full load condition;		



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			■ The flue gas exit temperature shall not be less than the acid dew point; and	Of fileasures	
			 Release of the chimney shall be directed vertically upwards and not be restricted or deflected. 		
			Cold feed side	Within Concrete	1
			• The aggregates with a nominal size less than or equal to 5 mm shall be stored in totally enclosed structure such as storage bin and shall not be handled in open area;	Batching Plant / Duration of the	·
			• 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;		
			 Belt conveyors shall be enclosed on top and two sides and provided with a metal board at the bottom to eliminate any dust emission due to the wind-whipping effect. Other type of enclosure will also be accepted by EPD if it can be demonstrated that the proposed enclosure can be achieve the same performance; 		
			 Scrapers shall be provided at the turning points of all belt conveyors inside the chute of the transfer points to remove dust adhered to the belt surface; 		
			 All conveyor transfer points shall be totally enclosed. Openings for the passages of conveyors shall be fitted with adequate flexible seals; and 		
			 All materials returned from dust collection system shall be transferred in enclosed system and shall be stored inside bins or enclosures. 		
			Hot feed side	Within Concrete	I
			• 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; 		
			 All vibratory screens shall be totally enclosed and dust tight with close-fitted access inspection opening. Gaskets shall be installed to seal off any cracks and edges of any inspection openings; 		
			 Chutes for carrying hot material shall be rigid and preferably fitted with abrasion resistant plate inside. They shall be inspected daily for leakages; 		



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures	Mitigation Measures Implemented? [^]
				Timing of completion of measures	impiementeu :
			 All hot bins shall be totally enclosed and dust tight with close-fitted access inspection opening. Gaskets shall be installed to seal off any cracks and edges of any inspection openings. The air shall be extracted and ducted to a dust collection system to meet the required particulates limiting value; and 		
			 Appropriate control measures shall be adopted in order to meet the required bitumen emission limit as well as the ambient odour level (2 odour units). 		
			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	
			 Roadways from the entrance of the plant to the product loading points and/or any other working areas where there are regular movements of vehicles shall be paved or hard surfaced; and 		
			 Haul roads inside the Works shall be adequately wetted with water and/or chemical suppressants by water trucks or water sprayers. 		
			Control of emissions from bitumen decanting	Within Concrete	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; 	Batching Plant / Duration of the	
			 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; 	construction phase	
			 Proper chimney for the discharge of bitumen fumes shall be provided at high level; 		
			The emission of bitumen fumes shall not exceed the required emission limit; and		
			The air-to-fuel ratio shall be properly controlled to allow complete combustion of the fuel. The fuel burners, if any, shall be maintained properly and free from carbon deposits in the burner nozzles.		
			Liquid fuel	Within Concrete	1
			 The receipt, handling and storage of liquid fuel shall be carried out so as to prevent the release of emissions of organic vapours and/or other noxious and offensive emissions to the air. 	Batching Plant / Duration of the construction phase	
			Housekeeping	Within Concrete	I
			A high standard of housekeeping shall be maintained. Waste material, spillage and scattered piles gathered beneath belt conveyors, inside and around enclosures shall be cleared frequently. The minimum clearing frequency is on a weekly basis.	Batching Plant / Duration of the construction phase	
5.2.6.7	2.1	-	Best Practices for Rock Crushing Plants	Within Concrete	N/A
			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	



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures	Mitigation Measures Implemented?
				Timing of completion of measures	
			Crushers		
			• The outlet of all primary crushers, and both inlet and outlet of all secondary and tertiary crushers, if not installed inside a reasonably dust tight housing, shall be enclosed and ducted to a dust extraction and collection system such as a fabric filter;		
			 The inlet hopper of the primary crushers shall be enclosed on top and 3 sides to contain the emissions during dumping of rocks from trucks. The rock while still on the trucks shall be wetted before dumping; 		
			 Water sprayers shall be installed and operated in strategic locations at the feeding inlet of crushers; and 		
			 Crusher enclosures shall be rigid and be fitted with self-closing doors and close-fitting entrances and exits. Where conveyors pass through the crusher enclosures, flexible covers shall be installed at entries and exits of the conveyors to the enclosure. 		
			Vibratory screens and grizzlies	Within Concrete	N/A
			• 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	
			 All grizzlies shall be enclosed on top and 3 sides and sufficient water sprayers shall be installed at their feeding and outlet areas. 		
			Belt conveyors	Within Concrete	N/A
			 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; 	Batching Plant / Duration of the construction phase	
			• 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.		



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures	Mitigation Measures Implemented?^
				Timing of completion of measures	
			Storage piles and bins	Within Concrete	N/A
			 Where practicable, free falling transfer points from conveyors to stockpiles shall be fitted with flexible curtains or be enclosed with chutes designed to minimize the drop height. Water sprays shall also be used where required. 	Batching Plant / Duration of the construction phase	
			 The surface of all surge piles and stockpiles of blasted rocks or aggregates shall be kept sufficiently wet by water spraying wherever practicable; 		
			 All open stockpiles for aggregates of size in excess of 5 mm shall be kept sufficiently wet by water spraying where practicable; or 		
			• The stockpiles of aggregates 5 mm in size or less shall be enclosed on 3 sides or suitably located to minimize wind-whipping. Save for fluctuations in stock or production, the average stockpile shall stay within the enclosure walls and in no case the height of the stockpile shall exceed twice the height of the enclosure walls.		
			 Scattered piles gathered beneath belt conveyors, inside and around enclosures shall be cleared regularly. 		
			Rock drilling equipment	Within Concrete	N/A
			 Appropriate dust control equipment such as a dust extraction and collection system shall be used during rock drilling activities. 	Batching Plant / Duration of the construction phase	
			Hazard to Human Life - Construction Phase		
Table 6.40	3.2	-	 Precautionary measures should be established to request barges to move away during typhoons. 	Construction Site / Construction Period	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	I
Table 6.40	3.2	-	 Location of all existing hydrant networks should be clearly identified prior to any construction works. 	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	I
			 only well-maintained plant to be operated on-site and plant should be serviced regularly during the construction works; 	commencement of operation	
			 machines and plant that may be in intermittent use to be shut down between work periods or should be throttled down to a minimum; 		



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures	Mitigation Measures
				Timing of completion of measures	Implemented?^
			 plant known to emit noise strongly in one direction, should, where possible, be orientated to direct noise away from the NSRs; 		
			mobile plant should be sited as far away from NSRs as possible; and		
			 material stockpiles and other structures to be effectively utilised, where practicable, to screen noise from on-site construction activities. 		
7.5.6	4.3	-	Adoption of QPME	Within the Project site /	
		 QPME should be adopted as far as applicable. 	 QPME should be adopted as far as applicable. 	During construction phase / Prior to commencement of operation	
7.5.6	4.3	-	Use of Movable Noise Barriers	Within the Project site /	1
			 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. 	During construction phase / Prior to commencement of operation	
7.5.6	4.3	-	Use of Noise Enclosure/ Acoustic Shed	Within the Project site /	1
			 Noise enclosure or acoustic shed should be used to cover stationary PME such as air compressor and generator. 	During construction phase / Prior to commencement of operation	
			Water Quality Impact – Construction Phase		



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
8.8.1.2 and 8.8.1.3	5.1	2.26	 Marine Construction Activities General Measures to be Applied to All Works Areas Barges or hoppers shall not be filled to a level which will cause overflow of materials or pollution of water during loading or transportation; Use of Lean Material Overboard (LMOB) systems shall be prohibited; Excess materials shall be cleaned from the decks and exposed fittings of barges and hopper dredgers before the vessels are moved; Plants should not be operated with leaking pipes and any pipe leakages shall be repaired quickly; Adequate freeboard shall be maintained on barges to reduce the likelihood of decks being washed by wave action; All vessels shall be sized such that adequate clearance is maintained between vessels and the sea bed at all states of the tide to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash; The works shall not cause foam, oil, grease, litter or other objectionable matter to be present in the 		
			 water within and adjacent to the works site; and For ground improvement activities including DCM, the wash water from cleaning of the drilling shaft should be appropriately treated before discharge. The Contractor should ensure the waste water meets the WPCO/TM requirements before discharge. No direct discharge of contaminated water is permitted. 		
			 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; A maximum of 10 % fines content to be adopted for sand blanket and 20 % fines content for marine filling below +2.5 mPD prior to substantial completion of seawall (until end of Year 2017) shall be specified in the works contract document; 	Within construction site / Duration of the construction phase	I
			 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; 		I
			Closed grab dredger shall be used to excavate marine sediment;		N/A
			 Silt curtains surrounding the closed grab dredger shall be deployed in accordance with the Silt Curtain Deployment Plan; and 		*(The arrangement of silt curtain has been modified. The details can be referred to Si Curtain Deployment Plan)
			■ The Silt Curtain Deployment Plan shall be implemented.	-	I



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			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; 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	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) For C7a, I For C8, I
					*(The requirement of silt curtain / screen has been modified. The details can be referred to Silt Curtain Deployment Plan)
			The silt curtains and silt screens should be regularly checked and maintained.		I
			Specific Measures to be Applied to Land Formation Activities during Marine Filling Works	Within construction	I
			 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; 	site / Duration of the construction phase	*(The arrangement of silt curtain has been modified. The details can be referred to Silt Curtain Deployment Plan)
			■ Double layer silt curtains to be applied at the south-western opening prior to commencement of marine		N/A
			filling activities;		*(The arrangement of silt curtain has been modified. The details can be referred to Silt Curtain Deployment Plan)
			■ Double layer silt curtain to enclose WSR C7a and silt screens installed at the intake points for both WSR		N/A
			C7a and C8 prior to commencement of marine filling activities; and		*(The requirement of silt curtain / screen has been modified. The details can be referred to Silt Curtain Deployment Plan)
			■ The silt curtains and silt screens should be regularly checked and maintained.		1



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?
			Specific Measures to be Applied to the Field Joint Excavation Works for the Submarine Cable Diversion	Within construction	N/A
			 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 	site / Duration of the construction phase	
			 Silt curtains surrounding the closed grab dredger to be deployed as a precautionary measure. 		
8.8.1.4	5.1	-	Modification of the Existing Seawall	At the existing	N/A
			• 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	
8.8.1.5	5.1	- Construction	Construction of New Stormwater Outfalls and Modifications to Existing Outfalls	Within construction	N/A
			 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. 	site / Duration of the construction phase	
8.8.1.6	5.1	2.27	Piling Activities for Construction of New Runway Approach Lights and HKIAAA Marker Beacons	Within construction site / Duration of the construction phase	1
8.8.1.7			Silt curtains shall be deployed around the piling activities to completely enclose the piling works and care should be taken to avoid spillage of excavated materials into the surrounding marine environment.		
			For construction of the eastern approach lights at the CMPs		1
			 Ground improvement via DCM using a close-spaced layout shall be completed prior to commencement of piling works; 		
			 Steel casings shall be installed to enclose the excavation area prior to commencement of excavation; 		
			The excavated materials shall be removed using a closed grab within the steel casings;		
			No discharge of the cement mixed materials into the marine environment will be allowed; and		
			Excavated materials shall be treated and reused on-site.		
8.8.1.8	5.1	-	Construction of Site Runoff and Drainage	Within construction	
			The site practices outlined in ProPECC Note PN 1/94 should be followed as far as practicable in order to minimise surface runoff and the chance of erosion. The following measures are recommended:	site / Duration of the construction phase	
			• Install perimeter cut-off drains to direct off-site water around the site and implement internal drainage, erosion and sedimentation control facilities. Channels, earth bunds or sand bag barriers should be provided on site to direct storm water to silt removal facilities. The design of the temporary on-site	.	I



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			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);	of infeasures	
			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
			 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	_	I
			• All vehicles and plant should be cleaned before leaving a construction site to ensure no earth, mud, debris and the like is deposited by them on roads. An adequately designed and sited wheel washing facility should be provided at construction site exits. Wash-water should have sand and silt settled out and removed regularly to ensure the continued efficiency of the process. The section of access road leading to, and exiting from, the wheel-wash bay to the public road should be paved with sufficient backfall toward the wheel-wash bay to prevent vehicle tracking of soil and silty water to public roads and drains. All washwater should be treated according to the requirements of the TM-DSS standards under the WPCO prior to discharge.	_	I
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	
8.8.1.10	5.1		General Construction Activities	Within construction	ı
8.8.1.11			 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 	site / During construction phase	



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures	Mitigation Measures Implemented?^
				Timing of completion of measures	
			• 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	12 5.1	2.28	Drilling Activities for the Submarine Aviation Fuel Pipelines	Within construction	1
8.8.1.13			To prevent potential water quality impacts at Sha Chau, the following measures shall be applied:	site / During	
			 A 'zero-discharge' policy shall be applied for all activities to be conducted at Sha Chau; 	construction phase	
			 No bulk storage of chemicals shall be permitted; and 		
			 A containment pit shall be constructed around the drill holes. This containment pit shall be lined with impermeable lining and bunded on the outside to prevent inflow from off-site areas. 		
			At the airport island side of the drilling works, the following measures shall be applied for treatment of wastewater:	Within construction site / During	1
			 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 	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	1
		 Priority should be given to collect and reuse suitable inert C&D materials generated from other concurrent projects and the Government's PFRF as fill materials for the proposed land formation works; 	-	I	
			 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; 	•	I
			 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 	-	I



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?
			■ For the marine sediments expected to be excavated from the piling works of TRC, APM & BHS tunnels, airside tunnels and other facilities on the proposed land formation area, piling work of marine sections of the approach lights and HKIAAA beacons, basement works for some of T2 expansion area and excavation works for the proposed APM depot should be treated and reused on-site as backfilling materials, although required treatment level / detail and the specific re-use mode are under development.		I
10.5.1.1	7.1	-	The following good site practices should be performed during the construction activities include:	Project Site Area /	1
			 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; 	Construction Phase	
			 Training of site personnel in proper waste management and chemical waste handling procedures; 		
			 Provision of sufficient waste disposal points and regular collection for disposal; 		
			 Appropriate measures to minimise windblown litter and dust during transportation of waste by either covering trucks by tarpaulin/similar material or by transporting wastes in enclosed containers. The cover should be extended over the edges of the sides and tailboards; 		
			 Stockpiles of C&D materials should be kept wet or covered by impervious sheets to avoid wind-blown dust; 		
			 All dusty materials including C&D materials should be sprayed with water immediately prior to any loading transfer operation so as to keep the dusty material wet during material handling at the barging points/ stockpile areas; 		
			 C&D materials to be delivered to and from the project site by barges or by trucks should be kept wet or covered to avoid wind-blown dust; 		
			 The speed of the trucks including dump trucks carrying C&D or waste materials within the site should be controlled to about 10 km/hour in order to reduce the adverse dust impact and secure the safe movement around the site; and 		
			To avoid or minimise dust emission during transport of C&D or waste materials within the site, each and every main temporary access should be paved with concrete, bituminous hardcore materials or metal plates and kept clear of dusty materials. Unpaved parts of the road should be sprayed with water or a dust suppression chemical so as to keep the entire road surface wet.		
10.5.1.3	7.1	-	The following practices should be performed to achieve waste reduction include:	Project Site Area /	1
			 Use of steel or aluminium formworks and falseworks for temporary works as far as practicable; 	Construction Phase	
			 Adoption of repetitive design to allow reuse of formworks as far as practicable; 		
			 Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal; 		



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures	Mitigation Measures
				Timing of completion of measures	Implemented?^
			 Encourage collection of aluminium cans, PET bottles and paper by providing separate labelled bins to enable these wastes to be segregated from other general refuse generated by the work force; 		
			 Any unused chemicals or those with remaining functional capacity should be collected for reused as far as practicable; 		
			 Proper storage and site practices to minimise the potential for damage or contamination of construction materials; and 		
			 Plan and stock construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste. 		
10.5.1.5	7.1		 Inert and non-inert C&D materials should be handled and stored separately to avoid mixing the two types of materials. 	Project Site Area / Construction Phase	1
10.5.1.5	7.1	-	 Any recyclable materials should be segregated from the non-inert C&D materials for collection by reputable licensed recyclers whereas the non-recyclable waste materials should be disposed of at the designated landfill site by a reputable licensed waste collector. 	Project Site Area / Construction Phase	I
10.5.1.6	7.1	-	 A trip-ticket system promulgated shall be developed in order to monitor the off-site delivery of surplus inert C&D materials that could not be reused on-site for the proposed land formation work at the PFRF and to control fly tipping. 	Project Site Area / Construction Phase	I
10.5.1.6	7.1	2.32	 The Contractor should prepare and implement a Waste Management Plan detailing various waste arising and waste management practices. 	Construction Phase	1
10.5.1.16	7.1	-	The following mitigation measures are recommended during excavation and treatment of the sediments: On-site remediation should be carried out in an enclosed area in order to minimise odour/dust emissions;	Project Site Area / Construction Phase	I
			 The loading, unloading, handling, transfer or storage of treated and untreated sediment should be carried out in such a manner to prevent or minimise dust emissions; 		1
			 All practical measures, including but not limited to speed control for vehicles, should be taken to minimise dust emission; 		I
			 Good housekeeping should be maintained at all times at the sediment treatment facility and storage area; 	_	I
			Treated and untreated sediment should be clearly separated and stored separately; and	-	I
			 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. 	-	I
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	Project Site Area / Construction Phase	N/A



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures	Mitigation Measures
				Timing of completion of measures	Implemented?^
			followed to minimise potential impacts on water quality during transportation of the sediments requiring Type 1 disposal:		
			 Bottom opening of barges shall be fitted with tight fitting seals to prevent leakage of material; 		
			 Monitoring of the barge loading shall be conducted to ensure that loss of material does not take place during transportation. Transport barges or vessels shall be equipped with automatic self-monitoring devices as specified by EPD; and 		
			 Barges or hopper barges shall not be filled to a level that would cause the overflow of materials or sediment laden water during loading or transportation. 		
10.5.1.19	7.1	-	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
			 Good quality containers compatible with the chemical wastes should be used; 		
			Incompatible chemicals should be stored separately;		
			 Appropriate labels must be securely attached on each chemical waste container indicating the corresponding chemical characteristics of the chemical waste, such as explosive, flammable, oxidizing, irritant, toxic, harmful, corrosive, etc.; and 		
			 The contractor will use a licensed collector to transport and dispose of the chemical wastes at the approved Chemical Waste Treatment Centre or other licensed recycling facilities, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation. 		
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 'wind blown' light material.	Project Site Area / Construction Phase	I
10.5.1.21	7.1	-	The construction contractors will be required to regularly check and clean any refuse trapped or accumulated along the newly constructed seawall. Such refuse will then be stored and disposed of together with the general refuse.	Project Site Area / Construction Phase	1
			Land Contamination – Construction Phase		
11.10.1.2	8.1	2.32	For areas inaccessible during site reconnaissance survey	Project Site Area	
to 11.10.1.3			• Further site reconnaissance would be conducted once the areas are accessible in order to identify any land contamination concern for the areas.	inaccessible during site reconnaissance / Prior to Construction Phase	I
			 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. 	-	1



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			• After completion of SI, the Contamination Assessment Report (CAR) will be prepared and submitted to EPD for approval prior to start of the proposed construction works at the golf course, the underground and above-ground fuel storage tank areas, emergency power generation units, airside petrol filling station and fuel tank room.		I *(CAR for golf course and Terminal 2 Emergency Power Supply System Nos.1, 2, 3, 4 and 5)
			Should remediation be required, Remediation Action Plan (RAP) and Remediation Report (RR) will be prepared for EPD's approval prior to commencement of the proposed remediation and any construction works respectively.		N/A
11.8.1.2	8.1	-	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
			 To minimize the incidents of construction workers coming in contact with any contaminated materials, bulk earth-moving excavation equipment should be employed; 		
			 Contact with contaminated materials can be minimised by wearing appropriate clothing and personal protective equipment such as gloves and masks (especially when working directly with contaminated material), provision of washing facilities and prohibition of smoking and eating on site; 		
			 Stockpiling of contaminated excavated materials on site should be avoided as far as possible; 		
			 The use of any contaminated soil for landscaping purpose should be avoided unless pre-treatment was carried out; 		
			 Vehicles containing any excavated materials should be suitably covered to reduce dust emissions and/or release of contaminated wastewater; 		
			 Truck bodies and tailgates should be sealed to prevent any discharge; 		
			 Only licensed waste haulers should be used to collect and transport contaminated material to treatment/disposal site and should be equipped with tracking system to avoid fly tipping; 		
			 Speed control for trucks carrying contaminated materials should be exercised. 8km/h is the recommended speed limit; 		
			 Strictly observe all relevant regulations in relation to waste handling, such as Waste Disposal Ordinance (Cap 354), Waste Disposal (Chemical Waste) (General) Regulation (Cap 354) and obtain all necessary permits where required; and 		
			 Maintain records of waste generation and disposal quantities and disposal arrangements. 		
			Terrestrial Ecological – Construction Phase		
12.10.1.1	9.2	2.14	Pre-construction Egretry Survey Conduct ecological survey for Sha Chau egretry to update the latest boundary of the egretry.	Breeding season (April - July) prior to	I



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
				HDD drilling works at HKIA	
12.7.2.3	9.1	2.30	Avoidance and Minimisation of Direct Impact to Egretry	During construction	I
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	
			 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	Preservation of Nesting Vegetation	During construction	1
			• 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.	phase at Sheung Sha Chau Island	
12.7.2.4	9.1	2.30	Timing the Pipe Connection Works outside Ardeid's Breeding Season	During construction	I
and 12.7.2.6			 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. 	phase at Sheung Sha Chau Island	
12.10.1.1	9.3	-	Ecological Monitoring	at Sheung Sha Chau	1
			 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. 	Island	
			Marine Ecological Impact – Pre-construction Phase		
13.11.4.1	10.2.2	-	■ Pre-construction phase Coral Dive Survey.	HKIAAA artificial seawall	I
			Marine Ecological Impact – Construction Phase		
13.11.1.3	-	-	Minimisation of Land Formation Area	Land formation	I
to 13.11.1.6			 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. 	footprint / during detailed design phase to completion of construction	
13.11.1.7	-	2.31	Use of Construction Methods with Minimal Risk/Disturbance	During construction	
to 13.11.1.10	 Use of non-dredge method for the main land formation and ancillary works in aviation fuel pipeline to the AFRF; 		 Use of non-dredge method for the main land formation and ancillary works including the diversion of the aviation fuel pipeline to the AFRF; 	phase at marine works area	1



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures	Mitigation Measures Implemented?
				Timing of completion of measures	implemented?
			 Use of Deep Cement Mixing (DCM) method instead of conventional seabed dredging for the land formation works to reduce the risk of negative impacts through the elevation of suspended solids and contaminants on CWDs, fisheries and the marine environment; 	_	I
			 Use of bored piling in short duration to form the new approach lights and marker beacons for the new runway; 	_	1
			 Avoid bored piling during CWD peak calving season (Mar to Jun); 	_	I
			■ Prohibition of underwater percussive piling; and	_	1
			 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. 		I
13.11.2.1	-	-	Mitigation for Indirect Disturbance due to Deterioration of Water Quality	All works area during	
to 13.11.2.7			 Water quality mitigation measures during construction phases include consideration of alternative construction methods, deployment of silt curtain and good site practices; 	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
			 Use of bored piling in short duration to form the new approach lights and marker beacons for the new runway; and 	_	1
			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.	-	I
13.11.1.12	-	-	Strict Enforcement of No-Dumping Policy	All works area during	I
			 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; 	the construction phase	
			 Mandatory educational programme of the no-dumpling policy be made available to all construction site personnel for all project-related works; 		
			 Fines for infractions should be implemented; and 		
			 Unscheduled, on-site audits shall be implemented. 		
13.11.1.13	-	-	 Good Construction Site Practices Regular inspection of the integrity and effectiveness of all silt curtains and monitoring of effluents to ensure that any discharge meets effluent discharge guidelines; Keep the number of working or stationary vessels present on-site to the minimum anytime; and Unscheduled, on-site audits for all good site practice restrictions should be conducted, and fines or penalties sufficient to be an effective deterrent need to be levied against violators. 	All works area during the construction phase	I



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures	Mitigation Measures
				Timing of completion of measures	Implemented?^
13.11.1.3 to 13.11.1.6	-	-	Minimisation of Land Formation Area Minimise the overall size of the land formation needed for the additional facilities to minimise the overall loss of habitat for marine resources, especially the CWD population.	Land formation footprint / during detailed design phase to completion of construction	I
13.11.5.4 to 13.11.5.13	SkyPier HSFs operating to / from Zhuhai and Macau would divert north of S knot speed limit to apply for the part-journeys that cross high CWD abundar indicatively shown in Drawing No. MCL/P132/EIA/13-023 of the EIA Repor northerly route and the portion of routings to be subject to the speed limit of prior to commencement of construction based on the future review of up-to-EM&A data and taking reference to changes in total SkyPier HSF numbers;		 SkyPier High Speed Ferries' Speed Restrictions and Route Diversions SkyPier HSFs operating to / from Zhuhai and Macau would divert north of SCLKC Marine Park with a 15 knot speed limit to apply for the part-journeys that cross high CWD abundance grid squares as indicatively shown in Drawing No. MCL/P132/EIA/13-023 of the EIA Report. Both the alignment of the northerly route and the portion of routings to be subject to the speed limit of 15 knots shall be finalised prior to commencement of construction based on the future review of up-to-date CWD abundance and EM&A data and taking reference to changes in total SkyPier HSF numbers; and A maximum of 10 knots will be enforced through the designated SCLKC Marine Park area at all times. 	Area between the footprint and SCLKC Marine Park during construction phase	I
			The ET will audit various parameters including actual daily numbers of HSFs, compliance with the 15-knot speed limit in the speed control zone and diversion compliance for SkyPier HSFs operating to / from Zhuhai and Macau; and The effectiveness of the CWD mitigation measures after implementation of initial six month SkyPier HSF diversion and speed restriction will be reviewed.	Area between the footprint and SCLKC Marine Park during construction phase	I
13.11.5.14 to 13.11.5.18	10.3.1	2.31	 Dolphin Exclusion Zone Establishment of a 24 hr Dolphin Exclusion Zone (DEZ) with a 250 m radius around the land formation works areas; 	Marine waters around land formation works area during construction phase	I
			 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 		1
			A DEZ would also be implemented during bored piling work but as a precautionary measure only.		I
13.11.5.19	10.4	2.31	Acoustic Decoupling of Construction Equipment Air compressors and other noisy equipment that must be mounted on steel barges should be acoustically-decoupled to the greatest extent feasible, for instance by using rubber or air-filled tyres; and Specific acoustic decoupling measures shall be specified during the detailed design of the project for	Around coastal works area during construction phase	I
10 11 5 00	10.01	2.20	use during the land formation works.	Construction phase	1
13.11.5.20	10.6.1	2.29	Spill Response Plan	Construction phase	<u> </u>



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			• 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			 A speed limit of 10 knots should be strictly observed for construction vessels at areas with the highest CWD densities; and 	west of Lantau Island during construction	
			 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. 	phase	
			Fisheries Impact - Construction Phase		
14.9.1.2 to	-		Minimisation of Land Formation Area	Land formation	I
14.9.1.5			 Minimise the overall size of the land formation needed for the additional facilities to minimise the overall loss of habitat for fisheries resources. 	footprint / during detailed design phase to completion of construction	
14.9.1.6	-	-	Use of Construction Methods with Minimal Risk/Disturbance	During construction	
			 Use of non-dredge method for the main land formation and ancillary works including the diversion of the aviation fuel pipeline to the AFRF; 	phase at marine works area	1
			 Use of Deep Cement Mixing (DCM) method instead of conventional seabed dredging for the land formation works to reduce the risk of negative impacts through the elevation of suspended solids and contaminants on fisheries and the marine environment; 	_	I
			 Use of bored piling in short duration to form the new approach lights and marker beacons for the new runway; and 		I
			 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. 	-	I
14.9.1.11	-		Strict Enforcement of No-Dumping Policy	All works area during	Į.
			 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; 	the construction phase	
			 Mandatory educational programme of the no-dumpling policy be made available to all construction site personnel for all project-related works; 		
			 Fines for infractions should be implemented; and 		
			 Unscheduled, on-site audits shall be implemented. 		



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures	Mitigation Measures
				Timing of completion of measures	Implemented?^
14.9.1.12	-		 Good Construction Site Practices Regular inspection of the integrity and effectiveness of all silt curtains and monitoring of effluents to ensure that any discharge meets effluent discharge guidelines; Keep the number of working or stationary vessels present on-site to the minimum anytime; and Unscheduled, on-site audits for all good site practice restrictions should be conducted, and fines or penalties sufficient to be an effective deterrent need to be levied against violators. 	All works area during the construction phase	I
14.9.1.13	-		Mitigation for Indirect Disturbance due to Deterioration of Water Quality	All works area during	
to 14.9.1.18			 Water quality mitigation measures during construction phases include consideration of alternative construction methods, deployment of silt curtain and good site practices; 	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
			 Use of bored piling in short duration to form the new approach lights and marker beacons for the new runway; and 	-	I
			 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. 	_	1
			Landscape and Visual Impact – Construction Phase		
Table 15.6	12.3	-	CM1 - The construction area and contractor's temporary works areas should be minimised to avoid impacts on adjacent landscape.	All works areas for duration of works; Upon handover and completion of works.	I
Table 15.6	12.3	-	CM2 - Reduction of construction period to practical minimum.	All works areas for duration of works; Upon handover and completion of works.	I
Table 15.6	12.3	-	CM3 - Phasing of the construction stage to reduce visual impacts during the construction phase.	All works areas for duration of works; Upon handover and completion of works.	I
Table 15.6	12.3	-	CM4 - Construction traffic (land and sea) including construction plants, construction vessels and barges should be kept to a practical minimum.	All works areas for duration of works; Upon handover and completion of works.	I



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	-	CM5 - Erection of decorative mesh screens or construction hoardings around works areas in visually unobtrusive colours.	All works areas for duration of works; Upon handover and completion of works. – may be disassembled in phases	I
Table 15.6	12.3	-	CM6 - Avoidance of excessive height and bulk of site buildings and structures.	New passenger concourse, terminal 2 expansion and other proposed airport related buildings and structures under the project; Upon handover and completion of works.	I
Table 15.6	12.3	-	CM7 - Control of night-time lighting by hooding all lights and through minimisation of night working periods.	All works areas for duration of works; Upon handover and completion of works. – may be disassembled in phases	I
Table 15.6	12.3	-	CM8 - All existing trees shall be carefully protected during construction. Detailed Tree Protection Specification shall be provided in the Contract Specification. Under this specification, the Contractor shall be required to submit, for approval, a detailed working method statement for the protection of trees prior to undertaking any works adjacent to all retained trees, including trees in contractor's works areas.	All existing trees to be retained; Upon handover and completion of works.	1
Table 15.6	12.3	-	CM9 - Trees unavoidably affected by the works shall be transplanted where practical. A detailed Tree Transplanting Specification shall be provided in the Contract Specification, if applicable. Sufficient time for necessary tree root and crown preparation periods shall be allowed in the project programme.	All existing trees to be affected by the works; Upon handover and completion of works.	ı
Table 15.6	12.3	-	CM10 - Land formation works shall be followed with advanced hydroseeding around taxiways and runways as soon as practical.	All affected existing grass areas around runways and verges/Duration of works;	N/A



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures	Mitigation Measures Implemented?^
				Timing of completion of measures	
				Upon handover and completion of works.	
			Cultural Heritage Impact – Construction Phase		
			Not applicable.		
			Health Impact – Aircraft Emissions		
			Not applicable.		
			Health Impact – Aircraft Noise		
			Not applicable.		

Notes:

[&]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.

[&]quot;I" Implemented where applicable.

[&]quot; N/A" Not applicable to the construction works implemented during the reporting month.

[&]quot;^" Checked by ET through site inspection and record provided by the Contractor.

Appendix B. Monitoring Schedule

Monitoring Schedule of This Reporting Period

May-21

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					,	1
						WQ General & Regular DCM
						mid-ebb: 16:10
2	3	4	5	6	7	mid-flood: 9:05
2	Site Inspection	Site Inspection	3	Site Inspection	Site Inspection	•
			CWD Survey (Vessel) AR1A, AR2			
		NM4, NM6	NM1A, NM5			
		WQ General & Regular DCM		WQ General & Regular DCM		WQ General & Regular DCM
		mid-ebb: 19		mid-ebb: 10:29		mid-ebb: 11:38
			3:51	mid-flood: 15:2		mid-flood: 17:17
9	10 Site Inspection	11 Site Inspection	12	13 Site Inspection	14 Site Inspection	15
	Site inspection	· ·		Site inspection	Site inspection	
		CWD Survey (Vessel) AR1A, AR2		CWD Survey (Land-based)		
	NM4, NM6	NM1A, NM5				
		W0.0 10.D 1.D0M		W0.0 10.0 1.00M		W0 0 10 D 1 D0M
		WQ General & Regular DCM mid-ebb: 13	3:01	WQ General & Regular DCM mid-ebb: 14:0	0	WQ General & Regular DCM mid-ebb: 15:05
		mid-flood: 6	5:30	mid-flood: 7:1	2	mid-flood: 7:58
16	17	18	19	20	21	22
	Site Inspection	Site Inspection		Site Inspection	Site Inspection	
				CWD Survey (Vessel)	CWD Survey (Vessel)	
	AR1A, AR2 NM1A, NM5			NM4, NM6		AR1A, AR2
	, -					
		WQ General & Regular DCM mid-ebb: 17	7:15	WQ General & Regular DCM mid-ebb: 19:20	6	WQ General & Regular DCM mid-ebb: 10:02
		mid-flood: 4	1:47	mid-flood: 6:5		mid-flood: 15:33
23	24	25	26	27	28	29
	Site Inspection	Site Inspection	Site Inspection	Site Inspection	Site Inspection	
	CWD Survey (Land-based)	CWD Survey (Vessel)	CWD Survey (Vessel)	CWD Survey (Vessel)	CWD Survey (Vessel)	
			NM4, NM6		AR1A, AR2 NM1A, NM5	
			TVIVIA, TVIVIO		NWIA, NWO	
		WQ General & Regular DCM	2002	WQ General & Regular DCM mid-ebb: 13:3:	2	WQ General & Regular DCM mid-ebb: 15:09
		mid-ebb: 12 mid-flood: 18	3:43	mid-ebb: 13:3 mid-flood: 6:4		mid-ebb: 15:09 mid-flood: 8:03
30	31	Notes:				
	Site Inspection	CWD. Chinaga White Deletin				
		CWD - Chinese White Dolphin	NM1A/AR1A - Man Tung Road Park			
		Air quality and Noise Monitoring Station	NM4 - Ching Chung Hau Po Woon Prima	ary School		
]	NM5/AR2 - Village House, Tin Sum NM6 - House No. 1, Sha Lo Wan			
		WQ - Water Quality				
		DCM - Deep Cement Mixing				

Tentative Monitoring Schedule of Next Reporting Period

Jun-21

			0011 21	-	=	
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		Site Inspection	2 Site Inspection	3 Site Inspection	4 Site Inspection	5
		Site inspection	Site inspection	Site inspection	Site inspection	
					CWD Survey (Vessel)	
		NM4, NM6		AR1A, AR2 NM1A, NM5		
		NIVI4, NIVIO		NIVITA, NIVIS		
		WQ General & Regular DCM		WQ General & Regular DCM		WQ General & Regular DCM
		mid-ebb: 17: mid-flood: 10:		mid-ebb: 8:48 mid-flood: 13:31		mid-ebb: 10:25 mid-flood: 16:02
6	7	8	9	10	11	12
	Site Inspection	Site Inspection	Site Inspection	Site Inspection	Site Inspection	
				·	·	
	CWD Survey (Vessel)	CWD Survey (Vessel)	CWD Survey (Land-based) AR1A, AR2			
			NM1A, NM5		NM4, NM6	
		WQ General & Regular DCM mid-ebb: 12:	05	WQ General & Regular DCM mid-ebb: 13:08		WQ General & Regular DCM mid-ebb: 14:16
		mid-flood: 5:		mid-flood: 6:07		mid-flood: 7:03
13	14	15	16	17	18	19
		Site Inspection	Site Inspection	Site Inspection	Site Inspection	
		CWD Survey (Land-based)		CWD Survey (Vessel)		
		AR1A, AR2				
		NM1A, NM5		NM4, NM6		
		WQ General & Regular DCM		WQ General & Regular DCM		WQ General & Regular DCM
		mid-ebb: 16:		mid-ebb: 17:50		mid-ebb: 8:20
		mid-flood: 8:		mid-flood: 10:38		mid-flood: 13:46
20	21 Site Inspection	Site Inspection	23 Site Inspection	24 Site Inspection	25 Site Inspection	26
	Site inspection	Site inspection	Site inspection	Site inspection	Site inspection	
	CWD Survey (Vessel)	CWD Survey (Vessel)		CWD Survey (Vessel)		
	AR1A, AR2 NM1A, NM5			NM4, NM6		AR1A, AR2
	Tawn, Tawo			·		
		WQ General & Regular DCM	50	WQ General & Regular DCM		WQ General & Regular DCM
		mid-ebb: 10: mid-flood: 4:		mid-ebb: 12:34 mid-flood: 5:36		mid-ebb: 14:10 mid-flood: 7:02
27	28	29	30			
	Site Inspection	Site Inspection				
	CMD Common (Manage)					
	CWD Survey (Vessel)					
			NM4, NM6			
		WQ General & Regular DCM				
		mid-ebb: 16:	30			
		mid-flood: 9:				
		Notes:				
		CWD - Chinese White Dolphin				
			NM1A/AR1A - Man Tung Road Park	orani Cabaal		
		Air quality and Noise Monitoring Station	NM4 - Ching Chung Hau Po Woon Prir NM5/AR2 - Village House, Tin Sum	mary School		
			NM6 - House No. 1, Sha Lo Wan			
		WQ - Water Quality				
		DCM - Deep Cement Mixing				

Appendix C. Monitoring Results

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

1-hour TSP Results

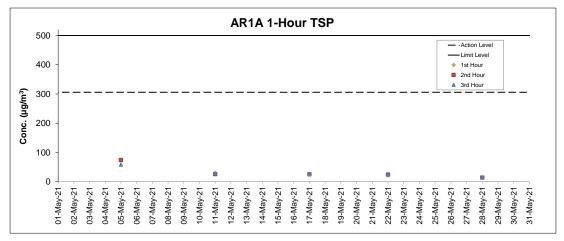
Station: AR1A- Man Tung Road Park

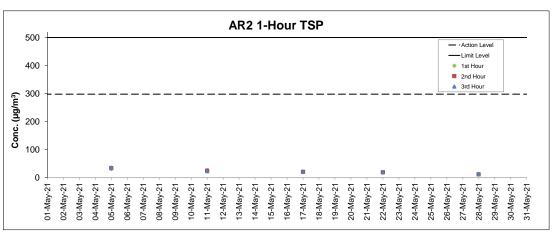
Date	Time	Weather	Wind Speed (m/s)	Wind Direction (deg)	1-hr TSP (μg/m³)	Action Level (μg/m³)	Limit Level (μg/m³)
5-May-21	9:30	Sunny	2.8	320	72	306	500
5-May-21	10:30	Sunny	2.2	312	74	306	500
5-May-21	11:30	Sunny	2.2	335	58	306	500
11-May-21	13:15	Sunny	5.8	209	29	306	500
11-May-21	14:15	Sunny	5.3	224	26	306	500
11-May-21	15:15	Sunny	5.0	214	29	306	500
17-May-21	13:22	Sunny	6.4	215	25	306	500
17-May-21	14:22	Sunny	5.0	195	25	306	500
17-May-21	15:22	Sunny	6.4	198	26	306	500
22-May-21	13:32	Sunny	6.1	146	22	306	500
22-May-21	14:32	Sunny	5.0	160	24	306	500
22-May-21	15:32	Sunny	5.8	164	25	306	500
28-May-21	13:15	Sunny	7.8	230	14	306	500
28-May-21	14:15	Sunny	8.9	230	14	306	500
28-May-21	15:15	Sunny	9.4	230	15	306	500

1-hour TSP Results

Station: AR2- Village House, Tin Sum

Jeacion. Aitz- Villa	ge nouse, nin	Julii						
Date Time		Weather	Wind Speed (m/s)	Wind Direction	4 1 700 / / 3	Action Level	Limit Level	
Date	Time	1		(deg)	1-hr TSP (μg/m³)	$(\mu g/m^3)$	(μg/m³)	
5-May-21	13:40	Cloudy	4.2	264	31	298	500	
5-May-21	14:40	Cloudy	4.2	253	34	298	500	
5-May-21	15:40	Cloudy	3.3	260	36	298	500	
11-May-21	9:14	Sunny	5.8	187	27	298	500	
11-May-21	10:14	Sunny	6.4	198	25	298	500	
11-May-21	11:14	Sunny	5.3	239	23	298	500	
17-May-21	9:17	Sunny	4.2	219	20	298	500	
17-May-21	10:17	Sunny	4.7	224	21	298	500	
17-May-21	11:17	Sunny	5.6	196	21	298	500	
22-May-21	9:24	Sunny	4.7	189	20	298	500	
22-May-21	10:24	Sunny	5.8	206	19	298	500	
22-May-21	11:24	Sunny	4.4	183	19	298	500	
28-May-21	13:24	Sunny	7.5	233	14	298	500	
28-May-21	14:24	Sunny	8.3	229	12	298	500	
28-May-21	15:24	Sunny	9.4	231	13	298	500	





- Notes

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

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

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

Noise Monitoring Resu	ults	

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

Noise Measurement Results

Station: NM1A- Man Tung Road Park

Station. N	WIA- Wan I	ung Koau			1
Date	Weather	Time	Measured	Measured	L _{eq(30mins)} dB(A) ^
			L ₁₀ dB(A)	L ₉₀ dB(A)	- 4
05-May-21	Sunny	12:12	74.6	51.3	<u> </u>
05-May-21	Sunny	12:17	77.0	56.1	<u> </u>
05-May-21	Sunny	12:22	76.5	54.0	71*
05-May-21	Sunny	12:27	76.5	54.0	
05-May-21	Sunny	12:32	73.3	59.7	
05-May-21	Sunny	12:37	75.6	55.6	
11-May-21	Sunny	14:07	69.7	64.8	
11-May-21	Sunny	14:12	69.4	64.9	1
11-May-21	Sunny	14:17	69.6	65.1	70
11-May-21	Sunny	14:22	68.4	63.8	70
11-May-21	Sunny	14:27	68.1	63.9	1
11-May-21	Sunny	14:32	68.0	63.5	1
17-May-21	Sunny	14:00	73.0	61.0	
17-May-21	Sunny	14:05	68.8	60.4	1
17-May-21	Sunny	14:10	68.0	60.2	71
17-May-21	Sunny	14:15	73.9	63.5	71
17-May-21	Sunny	14:20	73.6	63.9	1
17-May-21	Sunny	14:25	69.5	60.5	1
28-May-21	Sunny	13:30	78.3	68.2	
28-May-21	Sunny	13:35	77.3	63.2	1
28-May-21	Sunny	13:40	76.1	61.0	1
28-May-21	Sunny	13:45	78.3	63.6	<u>76*</u>
28-May-21	Sunny	13:50	77.1	61.6	1
28-May-21	Sunny	13:55	76.5	60.8	1

Remarks:

Noise Measurement Results

Station: NM4- Ching Chung Hau Po Woon Primary School

Date	Weather	Time	Measured	Measured	Ι
Date	weather	Tille	L ₁₀ dB(A)	L ₉₀ dB(A)	L _{eq(30mins)} dB(A) ^
04-May-21	Cloudy	13:07	61.2	58.3	
04-May-21	Cloudy	13:12	62.8	58.5	
04-May-21	Cloudy	13:17	61.8	59.1	63
04-May-21	Cloudy	13:22	60.5	58.1	03
04-May-21	Cloudy	13:27	60.8	58.1	
04-May-21	Cloudy	13:32	61.0	58.1	
10-May-21	Sunny	14:14	60.7	55.6	
10-May-21	Sunny	14:19	57.7	54.6	
10-May-21	Sunny	14:24	58.3	54.5	60
10-May-21	Sunny	14:29	59.2	55.1	00
10-May-21	Sunny	14:34	59.3	54.9	
10-May-21	Sunny	14:39	58.3	54.4	
20-May-21	Sunny	13:01	60.1	56.8	
20-May-21	Sunny	13:06	58.6	56.5	
20-May-21	Sunny	13:11	59.5	57.0	64
20-May-21	Sunny	13:16	60.0	57.2	04
20-May-21	Sunny	13:21	61.9	57.6	
20-May-21	Sunny	Reather Time L₀ dB(A) L₀ dB(A) Cloudy 13:07 61.2 58.3 Cloudy 13:12 62.8 58.5 Cloudy 13:17 61.8 59.1 Cloudy 13:22 60.5 58.1 Cloudy 13:27 60.8 58.1 Cloudy 13:32 61.0 58.1 Cloudy 13:32 61.0 58.1 Sunny 14:14 60.7 55.6 Sunny 14:19 57.7 54.6 Sunny 14:24 58.3 54.5 Sunny 14:29 59.2 55.1 Sunny 14:34 59.3 54.9 Sunny 13:01 60.1 56.8 Sunny 13:06 58.6 56.5 Sunny 13:11 59.5 57.0 Sunny 13:21 61.9 57.6 Sunny 13:26 63.4 57.5 Sunny 13:26 <t< td=""><td>57.5</td><td></td></t<>	57.5		
26-May-21	Sunny	13:16	61.0	56.8	
26-May-21	Sunny	13:21	64.0	58.6	
26-May-21	Sunny	13:26	63.2	60.4	66
26-May-21	Sunny	13:31	63.8	60.9	00
26-May-21	Sunny	13:36	63.7	60.9	
26-May-21	Sunny	13:41	63.0	60.6	

(^) +3dB (A) correction in Leq(30mins) dB(A) was applied to free-field measurement. Limit Level at NM4 was reduced to 65 dB(A) during school examination period from 31 May to 4 June 2021.

^{(^) +3}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. Value exceeding Limit Level is bolded and underlined

Noise Measurement Results

Station: NM5- Village House, Tin Sum

Date	te Weather Time		Measured	Ι μηναν Δ	
Date	weather	rime	L ₁₀ dB(A)	L ₉₀ dB(A)	L _{eq(30mins)} dB(A) ^
5-May-21	Cloudy	13:42	64.9	57.2	
5-May-21	Cloudy	13:47	64.3	55.8	
5-May-21	Cloudy	13:52	63.3	55.1	62*
5-May-21	Cloudy	13:57	57.1	50.8	02
5-May-21	Cloudy	14:02	55.5	49.8	
5-May-21	Cloudy	14:07	56.0	52.1	
11-May-21	Sunny	09:29	57.0	48.9	
11-May-21	Sunny	09:34	54.3	48.4	
11-May-21	Sunny	09:39	54.3	48.2	58
11-May-21	Sunny	09:44	51.2	47.8	58
11-May-21	Sunny	09:49	57.7	49.5	
11-May-21	Sunny	09:54	55.2	49.8	
17-May-21	Sunny	09:20	60.2	53.6	
17-May-21	Sunny	09:25	58.6	53.8	
17-May-21	Sunny	09:30	59.7	56.9	62*
17-May-21	Sunny	09:35	59.5	57.2	02
17-May-21	Sunny	09:40	65.1	57.5	
17-May-21	Sunny	09:45	59.4	57.0	
28-May-21	Sunny	13:16	61.6	48.9	
28-May-21	Sunny	13:21	60.7	54.7	İ
28-May-21	Sunny	13:26	59.8	50.4	57*
28-May-21	Sunny	13:31	59.4	51.7	5/*
28-May-21	Sunny	13:36	57.7	48.4	Ī
28-May-21	Sunny	13:41	60.7	48.8	

Noise Measurement Results

Station: NM6- House No.1 Sha Lo Wan

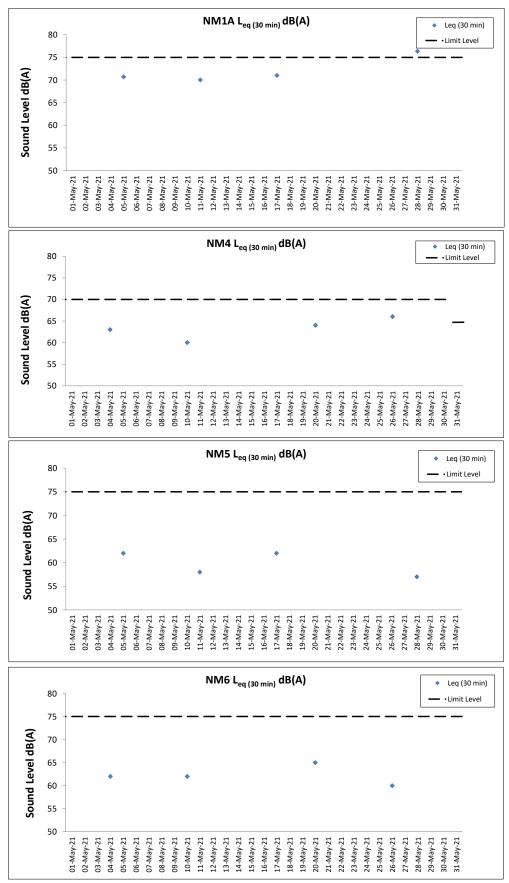
Date	Weather	Time	Measured	Measured	I 40(A) A
Date	vveatilei	Time	L ₁₀ dB(A)	L ₉₀ dB(A)	L _{eq(30mins)} dB(A) ^
4-May-21	Cloudy	15:44	59.9	49.1	
4-May-21	Cloudy	15:49	63.6	54.5	
4-May-21	Cloudy	15:54	56.4	53.5	62
4-May-21	Cloudy	15:59	56.0	53.5	02
4-May-21	Cloudy	16:04	57.5	53.5	
4-May-21	Cloudy	16:09	65.1	54.0	
10-May-21	Sunny	15:41	65.9	48.9	
10-May-21	Sunny	15:46	59.5	45.6	
10-May-21	Sunny	15:51	75.9	48.9	62*
10-May-21	Sunny	15:56	56.5	46.3	02
10-May-21	Sunny	16:01	60.6	47.5	
10-May-21	Sunny	16:06	69.3	46.5	
20-May-21	Cloudy	15:46	63.8	53.2	
20-May-21	Cloudy	15:51	67.2	52.8	
20-May-21	Cloudy	15:56	62.3	53.2	65
20-May-21	Cloudy	16:01	57.0	50.6	03
20-May-21	Cloudy	16:06	57.3	50.4	
20-May-21	Cloudy	16:11	64.8	51.0	
26-May-21	Sunny	15:48	61.5	54.6	
26-May-21	Sunny	15:53	59.2	54.2	
26-May-21	Sunny	15:58	62.8	54.7	60
26-May-21	Sunny	16:03	57.2	51.3	00
26-May-21	Sunny	16:08	56.5	49.2	
26-May-21	Sunny	16:13	54.4	48.6	

Remarks:
(^) +3dB (A) correction in Leq(30mins) dB(A) was applied to free-field measurement.
(*) The measurement result was corrected with reference to the baseline monitoring levels.

Remarks:

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

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



Notes

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

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

Water Qua Water Qua			ults on		01 May 21	during Mid-	Ebb Tide	Э																				
Monitorina	Weather	Sea	Sampling	Water			Current Speed	Current	Water Ter	mperature (°C)	pł	Н	Salini	ty (ppt)		aturation	Dissol Oxyg		Turbidity(NTU) Su	spended (mg/L		Total Al		Coordinate	Coordinate	Chromit (µg/L)	
Station	Condition	Condition	Time	Depth (m)	Sampling Dept	h (m)	(m/s)	Direction	Value	Average	Value A	Average	Value	Average	Value	Average	Value		Value	DA V	alue	DA	Value		HK Grid (Northing)	HK Grid (Easting)		DA Value D
					Surface	1.0 1.0	2.2	281 288	25.6 25.5	25.6	8.2 8.2	8.2	30.7 30.7	30.7	109.8 109.8	109.8	7.6 7.6		3.0		5 4		84 84				<0.2 <0.2	0.6
C1	Fine	Moderate	15:40	9.1	Middle	4.6 4.6	2.4	278 290	24.7	24.7	8.2	8.2	31.8	31.8	104.9	104.9	7.3	7.5	4.2		5	5	87 87	87	815610	804246	<0.2	<0.2 1.1 1
					Bottom	8.1	2.6	277	24.4	24.5	8.2	8.2	32.4 32.3	32.3	100.6	100.7	7.0	7.0	5.1		5		90				<0.2	1.1
					Surface	8.1 1.0	2.8 0.2	289 135	24.5 25.5	25.5	8.2 8.1	8.1	22.6	22.6	100.8 94.1	94.1	7.0 6.8		5.2 3.9		5		89 85				<0.2	1.1
C2	Fine	Moderate	14:26	11.5	Middle	1.0 5.8	0.2 0.5	137 154	25.5 25.0	25.0	8.1 8.1	8.1	22.6 26.6	26.6	94.0 88.5	88.5	6.8		3.9 16.8	126	5	5	85 87	88	825695	806958	<0.2 <0.2	<0.2 1.7 1
02	1 110	Moderate	11.20		Bottom	5.8 10.5	0.5 0.5	156 144	25.0 24.9	24.9	8.1 8.1	8.1	26.6 28.0	28.0	88.5 86.2	86.2	6.3 6.1	61	16.4 20.2		5 4	Ĭ	87 91		020000	000000	<0.2	1.8
						10.5 1.0	0.5	144 286	24.9 24.9		8.1 8.1		28.0		86.2 85.1		6.1	0.1	20.5 3.6		5 4		90 84				<0.2	1.7
	_				Surface	1.0 5.4	0.4	303 257	24.9 24.8	24.9	8.1 8.1	8.1	29.7 30.3	29.7	85.1 84.1	85.1	6.0 5.9	6.0	3.6 3.7		4 5		84 85				<0.2	1.0
C3	Fine	Moderate	16:22	10.8	Middle	5.4 9.8	0.2	264 120	24.8	24.8	8.1	8.1	30.3	30.3	84.1	84.1	5.9		3.7	3.7	5	5	85 88	86	822126	817823	<0.2	<0.2 1.3 1 0.9 1
					Bottom	9.8	0.1	121	24.6	24.6	8.1	8.1	31.0	30.9	83.1	83.1	5.8	5.8	3.7		6		88				<0.2	1.0
					Surface	1.0	2.7	238 248	25.4 25.4	25.4	8.1		27.3 27.2	27.2	96.9 96.9	96.9	6.8	6.8	5.8 5.7		5		85 85				<0.2	1.1
IM1	Fine	Moderate	15:19	5.7	Middle	-	-	-	-	-	-	-	-	-	-	-	-		-	6.2	-	4	-	87	817945	807108	-	<0.2 - 1
					Bottom	4.7	2.4	236 238	24.7 24.7	24.7	8.1 8.1	8.1	30.0	30.0	96.4 96.4	96.4	6.8	6.8	6.7 6.6		3		88 88				<0.2 <0.2	1.2
					Surface	1.0 1.0	1.7 1.7	24 24	25.4 25.4	25.4	8.1 8.1		27.3 27.3	27.3	97.8 97.9	97.9	6.9		5.3 5.3		5		83				<0.2	1.1
IM2	Fine	Moderate	15:09	7.7	Middle	3.9 3.9	1.5 1.6	23 25	25.0 25.0	25.0	8.1	8.1	28.4	28.4	97.9 98.2	98.1	6.9	6.9	5.7 5.6		5	5	86 86	86	818184	806158	<0.2	<0.2 1.1 1
					Bottom	6.7 6.7	1.6	28 30	24.6 24.6	24.6	8.2	8.2	30.9 30.9	30.9	98.9 99.0	99.0	6.9	6.9	6.5 6.3		5		89 89				<0.2	1.1
					Surface	1.0	2.8	196 205	25.6 25.6	25.6	8.1 8.1	8.1	27.1	27.1	101.6	101.6	7.1		4.4		3 4		83 83				<0.2	1.1
IM3	Fine	Moderate	15:03	7.9	Middle	4.0	2.4	195 204	25.2 25.2	25.2	8.1	8.1	28.4	28.4	101.8	101.8	7.1	7.1	3.9	4.5	3	4	86 86	86	818807	805589	-O 2	<0.2 1.1 1
					Bottom	4.0 6.9	2.6	191	24.6	24.6	8.2 8.2	0.2	31.0	31.0	99.1	99.1	6.9	6.9	5.0		5		89				<0.2	1.7
					Surface	6.9 1.0	2.9	193 194	24.6 25.7	25.7	8.1		31.0 28.0	28.0	99.1 104.1	104.1	7.3		5.0 3.6		5		89 82				<0.2	1.6
IM4	Fine	Moderate	14:53	9.5	Middle	1.0 4.8	2.0 2.4	196 188	25.7 25.3	25.3	8.1 8.1	0.1	28.0 29.1	29.2	104.1 102.5	102.5	7.3 7.1	7.2	3.6 4.7		6	5	82 86	86	819717	804616	<0.2	<0.2 1.6
IIVI-	1110	Woderate	14.55	3.3		4.8 8.5	2.6	196 185	25.3 24.6	24.6	8.1 8.1	8.1	29.2 31.0	31.0	102.5 98.9	98.9	7.1 6.9	6.9	4.7 5.4	-	5	Ĭ	86 89		013/1/	004010	<0.2	1.1
					Bottom	8.5 1.0	2.7 1.5	186 62	24.6 25.3		8.1 8.1		31.0 26.9		98.9 98.3		6.9 6.9	6.9	5.5 6.3		4		88 82				<0.2	1.0
					Surface	1.0 4.3	1.6 1.7	63 69	25.3 24.7	25.3	8.1 8.1	8.1	26.8 30.2	26.9	98.4 97.8	98.4	6.9 6.8	6.9	6.4 7.7		5		83 85				<0.2	1.6
IM5	Fine	Moderate	14:45	8.5	Middle	4.3 7.5	1.8	69 67	24.7	24.7	8.1	8.1	30.2	30.2	97.7 96.6	97.8	6.8		7.9		3	4	85 88	85	820752	804869	<0.2	<0.2 1.6 1 1.6
					Bottom	7.5 1.0	1.8	72 6	24.6	24.6	8.1	8.1	30.5	30.5	96.7	96.7	6.8	6.8	8.5		3		88 82				<0.2	1.5
					Surface	1.0	0.9	6	25.5	25.5	8.1	8.1	25.0	25.0	98.0	98.0	7.0	6.9	4.0		3		83				<0.2	1.6
IM6	Fine	Moderate	14:38	8.4	Middle	4.2 4.2	1.3	17 17	25.0 25.0	25.0	8.1 8.1		27.1 27.1	27.1	94.0 94.1	94.1	6.7		4.7 4.8	5.0	4	4	85 85	85	821056	805829	<0.2	<0.2 1.6 1
					Bottom	7.4 7.4	1.6 1.7	22 24	24.8 24.8	24.8	8.1 8.1	8.1	29.6 29.6	29.6	95.4 95.5	95.5	6.7	6.7	6.1		4		88 88				<0.2 <0.2	1.7
					Surface	1.0 1.0	0.2	240 250	26.0 26.0	26.0	8.0		24.2	24.2	100.4 100.4	100.4	7.1		3.4 3.4		3		83 83				<0.2 <0.2	1.6
IM7	Fine	Moderate	14:30	9.7	Middle	4.9 4.9	0.2	199 208	24.9 24.9	24.9	8.0	8.0	27.1 27.1	27.1	91.2 91.2	91.2	6.5 6.5	6.8	4.0 3.9		3	4	86 86	86	821348	806835	-n 2	<0.2 1.7 1
					Bottom	8.7 8.7	0.2	255 256	24.9	24.9	8.0	8.0	27.9	27.9	89.1 89.1	89.1	6.3	6.3	4.6 4.3		4		89 89				<0.2	1.7
					Surface	1.0	0.3	100 105	25.8 25.8	25.8	8.1 8.1	8.1	24.6	24.6	92.5	92.5	6.6		3.7		3 4		82 82				<0.2 <0.2	1.6
IM8	Fine	Moderate	14:52	8.0	Middle	4.0	0.4	75	25.1	25.1	8.1	8.1	27.1	27.1	92.5 89.7 89.5	89.6	6.3	0.5	7.2	9.5	4	4	84	84	821831	808141	<0.2	.0.0 1.4
					Bottom	4.0 7.0	0.4	75 76	25.1 25.0	25.0	8.1 8.1	8.1	27.1 28.3	28.3	88.5	88.6	6.3	62	7.1 17.8		6		84 86				<0.2	1.4
DA: Depth-Ave						7.0	0.4	76	25.0		8.1	***	28.3		88.6		6.2		17.7		5		86				<0.2	1.4

DA: Depth-Averaged

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

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

Water Qua Nater Qua		toring Res	ults on		01 May 21	during Mid-		е																				
Monitoring	Weather	Sea	Sampling	Water	0	1. ()	Current Speed	Current	Water Te	mperature (°C)	1	рН	Salir	nity (ppt)		aturation (%)	Dissolv Oxyge		dity(NTU)	Suspende (mg		Total A		Coordinate HK Grid	Coordinate	Chrom (µg/		Nickel (µg/L
Station	Condition	Condition	Time	Depth (m)	Sampling Dept	th (m)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA Val	e DA	Value	DA	Value	DA	(Northing)	HK Grid (Easting)	Value	DA	Value DA
					Surface	1.0	0.7	87 87	25.7 25.7	25.7	8.1 8.1	8.1	24.1	24.1	94.8 94.7	94.8	6.7	4.0		5		82 83				<0.2		1.5
IM9	Fine	Moderate	14:58	7.6	Middle	3.8	0.7	76	25.2	25.2	8.1	8.1	26.6	26.6	90.7	90.7	6.4	6.6		5	5	84	85	822078	808808	<0.2	<0.2	1.6
livis	riile	Woderate	14.36	7.0	Middle	3.8 6.6	0.7	81	25.2	23.2	8.1	0.1	26.6	20.0	90.7		6.4	7.0		5	3	85	05	022076	808808	<0.2	₹0.2	1.6
					Bottom	6.6	0.6	64 65	25.0 25.0	25.0	8.1 8.1	8.1	27.8 27.8	27.8	88.3 88.3	88.3	6.2	6.2 15.		5	1	87 87	1			<0.2		1.5 1.5
					Surface	1.0	0.9	77 77	25.3 25.3	25.3	8.1 8.1	8.1	26.0 26.0	26.0	91.8 91.8	91.8	6.5 6.5	4.		9	-	84				<0.2		1.6
1844.0			45.04		16.11.	4.2	0.9	84	25.3	24.0	8.1		26.0	07.7	91.8	00.0	6.1	6.3	,			84 85	0.5	000000	000704	<0.2		16
IM10	Fine	Moderate	15:04	8.4	Middle	4.2	0.8	88	24.9	24.9	8.1	8.1	27.7	27.7	86.1	86.2	6.1	10.		8	, s	85	85	822363	809781	<0.2	<0.2	1.6
					Bottom	7.4 7.4	0.6	101 103	24.9 24.9	24.9	8.1 8.1	8.1	28.8	28.8	82.4 82.5	82.5	5.8	5.8 13.		6	1	87 87	ł			<0.2	. •	1.7
					Surface	1.0	0.8	91	25.4	25.4	8.1	8.1	26.4	26.4	88.8	88.8	6.3	4.		9	ĺ	82				<0.2	. 1	1.7
	_					1.0 4.5	0.9	93 97	25.4 25.1		8.1 8.1		26.4 27.5		88.8 84.3		6.3	6.2		7	1	83 84				<0.2		1.6
IM11	Fine	Moderate	15:13	8.9	Middle	4.5	0.8	106	25.1	25.1	8.1	8.1	27.5	27.5	84.3	84.3	6.0	6.3	0.2	8	8	85	85	822073	811473	<0.2	<0.2	1.6
					Bottom	7.9 7.9	0.4	94 100	24.9 24.9	24.9	8.1 8.1	8.1	28.9	28.9	82.9 82.9	82.9	5.8	5.8		7	1	87 86	1			<0.2		1.5
					Surface	1.0	0.5	95	25.4	25.4	8.1	8.1	26.8	26.8	87.7	87.7	6.2	4.1		7		82				<0.2		1.3
						1.0 4.2	0.5	99 116	25.4 25.3		8.1 8.1		26.8 28.1		87.7 85.4		6.2	6.1		7	1	82 84	ł			<0.2		1.3
IM12	Fine	Moderate	15:19	8.3	Middle	4.2	0.4	119	25.3	25.3	8.1	8.1	28.1	28.1	85.4	85.4	6.0	4.9	5.0	6	6	85	85	821452	812042	<0.2	<0.2	1.2
					Bottom	7.3 7.3	0.2	92 93	25.0 25.0	25.0	8.1 8.1	8.1	28.6	28.6	83.3	83.3	5.9	5.9 6.0		5	1	87 88	1			<0.2		1.5
					Surface	1.0	-	-	26.0	26.0	8.1	8.1	27.0	27.0	91.6	91.6	6.4	2.0		2		-				-	=	-
						1.0 2.8	-	-	26.0	20.0	8.1	0.1	27.0	27.0	91.5	01.0	6.4	6.4		3	1	-	1			-		-
SR1A	Fine	Moderate	15:50	5.6	Middle	2.8	-	-	-	-	-	-	-	-	-		-	-	4.1	-	3	-	-	819975	812655		1	-
					Bottom	4.6 4.6	-	-	25.2 25.2	25.2	8.1 8.1	8.1	28.5 28.5	28.5	84.2 84.5	84.4	5.9 5.9	5.9 5.4		3	1	-				-		-
					Surface	1.0	0.6	127	25.7	25.7	8.1	8.1	26.4	26.4	90.7	90.6	6.4	3.0		4		82				<0.2	=	1.2
						1.0	0.6	136	25.7	20.7	8.1	0.1	26.4	20.4	90.5	30.0	6.4	6.4	_	-	1	82				<0.2		1.3
SR2	Fine	Moderate	16:04	4.6	Middle	-	-	-	-	-		-	-	-	-	-			4.9		4	-	83	821443	814147	-	<0.2	- "
					Bottom	3.6 3.6	0.3	162 169	25.1 25.0	25.1	8.1 8.1	8.1	28.6	28.6	83.9 83.9	83.9	5.9 5.9	5.9 6.3		5 4	I	83 84				<0.2	, [1.2
					Surface	1.0	0.3	121	25.0	25.2	8.1	8.1	25.9	25.9	87.6	87.6	6.2	5.		7		-					_	-
					Surface	1.0 4.4	0.4	126 103	25.2	23.2	8.1 8.1	0.1	26.0 27.0	25.5	87.6	07.0	6.2	6.2 5.3		6	I	-				-	, [-
SR3	Fine	Moderate	14:47	8.8	Middle	4.4	0.4	111	25.0 25.0	25.0	8.1	8.1	27.0	27.0	86.5 86.5	86.5	6.1	10.		6	6	-	-	822155	807586	-		-
					Bottom	7.8 7.8	0.4	78 80	25.1 25.1	25.1	8.2 8.2	8.2	28.2 28.2	28.2	89.4 89.4	89.4	6.3 6.3	6.3		5 5	1	-				-	. [-
					Surface	1.0	1.6	191	25.1	25.3	8.1	8.1	29.0	29.0	98.5	98.5	6.9	6.		3		-				-		-
					Surface	1.0 4.8	1.8	202 198	25.3 24.7	25.3	8.1 8.1	0.1	29.0	29.0	98.4 95.6		6.9	6.8		2	1	-				-	. [-
SR4A	Fine	Calm	16:02	9.6	Middle	4.8	1.7	204	24.7	24.7	8.1	8.1	30.0	30.0	95.6	95.7	6.7	7.		5	5	-	-	817177	807816	-	-	-
					Bottom	8.6	1.7	196	24.7	24.7	8.1	8.1	30.2	30.2	95.9	95.9	6.7	6.7		7	1	-				-	. [-
					Surface	8.6 1.0	1.9 0.2	209 307	24.7 25.4	25.4	8.1 8.0	8.0	30.2 27.2	27.2	95.9 94.2	94.2	6.7	5.0		7		-				\vdash		
					Surface	1.0	0.2	331	25.4	25.4	8.0	6.0	27.2	21.2	94.2	94.2	0.0	6.6 5.0		6	1	-				-	. [-
SR5A	Fine	Calm	16:19	3.6	Middle		-	-	-	-	-	-	-	-	-	-	-	<u> </u>	6.4	-	7	-	-	816599	810684	-	-	 -
					Bottom	2.6	0.1	308	25.2	25.2	8.0	8.0	27.2	27.2	92.6	92.6	6.5	6.5		7	1	-				-	. [-
					0(2.6 1.0	0.1	308 44	25.2 25.6	25.0	8.0		27.2	000	92.6 96.4	00.5	6.5	7.3		5		-				\vdash		-
					Surface	1.0	0.1	44	25.6	25.6	8.1	8.0	27.0	26.9	96.5	96.5	6.8	6.8 3.0		6	1	-				-	. [-
SR6A	Fine	Calm	16:52	4.1	Middle		-	-	-	-	-	-	-	-	-	-	-	-	3.7	-	5	-	-	817963	814733	-		-
					Bottom	3.1	0.1	113	25.6	25.6	8.1	8.1	27.3	27.3	95.7	95.6	6.7	6.7		4	1	-				-	, [-
						3.1 1.0	0.1	120 61	25.6 25.3		8.1 8.1		27.3 29.3		95.4 89.9		6.7	3.9		5		-				-		-
					Surface	1.0	0.7	61	25.3	25.3	8.1	8.1	29.3	29.3	89.9	89.9	6.3	6.1 3.1		4	1	Ŀ	1			-	, †	-
SR7	Fine	Moderate	16:54	14.6	Middle	7.3 7.3	0.2	14 14	24.7 24.7	24.7	8.1 8.1	8.1	31.1	31.1	85.4 85.4	85.4	5.9 5.9	4.		5 4	4	-	-	823643	823744	-	-	-
					Bottom	13.6	0.2	55	24.5	24.5	8.2	8.2	32.1	32.1	84.3	84.4	5.9	5.0 5.5		3	1	-	1			-	.	-
						13.6 1.0	0.2	57	24.5 25.5		8.2 8.1		32.1 28.0		84.4 84.6		5.9 5.9	5.0		10		-				-		-
					Surface	1.0	-	-	25.5	25.5	8.1	8.1	28.0	28.0	84.6	84.6	5.0	5.9		11	1		İ				.	-
SR8	Fine	Moderate	15:28	4.3	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	7.8	-	11	-	-	820411	811635	-	[
					Bottom	3.3	-		25.1	25.1	8.1	0.1	28.3	20.2	84.2	84.3	5.9	E 0 8.3		10	1	Ė	į l					-
			1 1		DOLLOTTI	3.3	-	-	25.1	25.1	8.1	8.1	28.3	28.3	84.4	04.3	5.9	5.9		11		-	1	l		-		-

Water Quality Monitoring Results on 01 May 21 during Mid-Flood Tide Turbidity(NTU) Suspended Solids Total Alkalinity DO Saturation Dissolved Chromium Salinity (ppt) Coordinate Coordinate Nickel (µg/L) Weather Sampling Water Water Temperature (°C) Monitoring Speed Current Oxvaen (mg/L) (maga) Sampling Depth (m) HK Grid HK Grid Station Direction Condition Time Depth (m) (m/s) Average Value Average Average Value Average Value DA Value DA Value DA Value DA Value DA Value DA Condition Value Value (Northing) (Easting) 24.7 2.8 Surface 24.7 8.1 29.8 99.5 1.0 3.0 350 24.7 29.8 99.5 7.0 6.5 84 <0.2 2.8 344 24.5 6.7 87 1.2 6 <0.2 C1 8 1 31.4 986 804260 09:39 92 Middle 24.5 815634 Cloudy Moderate 87 24.5 31.4 98.6 6.9 6.8 5 87 <0.2 1.1 4.6 3.0 8.1 8.2 3.0 348 24.5 8.1 31.5 98.2 6.9 7.5 4 90 <0.2 1.2 8.1 6.9 Bottom 24.5 31.5 98.2 98.2 6.9 7.6 1.1 24.5 8.2 8.2 3.1 12 31.5 5 90 < 0.2 1.0 0.3 3.8 86 1.6 1.6 1.7 < 0.2 8.1 Surface 25.2 8.1 25.6 88.0 25.2 24.9 8.1 87.9 6.3 3.8 8.0 5 4 86 1.0 0.3 322 <0.2 88 6.3 0.4 8.1 6.0 27.2 84.8 C2 Fine Moderate 10:42 126 Middle 24.9 8.1 27.2 84.8 88 825669 806930 1.7 27.2 84.8 6.0 7.9 4 89 <0.2 6.3 0.4 29 24.9 8.1 11.6 0.4 346 24.9 8.1 27.6 82.3 5.8 18.0 4 91 <0.2 1.7 8.1 27.6 82.2 5.8 Bottom 24.9 11.6 0.4 318 24.9 8.1 27.6 82.1 5.8 17.8 4 90 <0.2 1.6 0.3 241 25.1 3.4 84 <0.2 1.5 Surface 25.1 8.1 27.2 86.0 1.0 0.3 261 25.1 8.1 85.9 6.1 3.4 3 84 <0.2 1.4 4.4 1.3 6.1 252 257 8.1 5.9 2 89 89 <0.2 0.4 24.8 29.3 83.8 C3 08:42 817790 Fine Moderate 12.1 Middle 24.8 8.1 29.3 83.8 88 822130 1.4 0.4 24.8 11.1 0.4 266 24.6 8.1 82.7 5.8 13.1 3 89 <0.2 1.4 Bottom 24.6 8.1 31.0 82.8 5.8 11.1 0.4 288 24.6 8.1 31.0 82.8 5.8 12.9 2 1.4 1.0 2.3 201 25.0 8.0 5.3 85 <0.2 1.2 Surface 25.0 8.0 27.0 94.3 1.0 2.5 220 25.0 8.0 26.9 94.3 6.7 5.2 4 85 <0.2 1.2 807153 IM1 Fine Moderate 09:58 Middle 817942 4.8 2.1 202 24 9 8.0 27.6 92.4 6.5 6.3 6 88 < 0.2 11 Bottom 24.9 8.0 27.7 92.4 6.5 2.3 4.8 219 24 9 8.0 27.7 92.4 6.5 6.5 5 88 <0.2 1.2 1.0 191 25.0 8.1 27.1 96.6 6.8 4.4 83 < 0.2 1.1 Surface 8.1 27.1 96.6 1.0 1.7 191 25.0 8.1 27.1 96.6 6.8 4.4 6 83 <0.2 1.1 4.8 3.9 1.5 189 24.9 8.1 28.2 92.3 6.5 5 86 <0.2 1.2 IM2 Moderate 10:05 7.7 Middle 8.1 28.2 92.4 818142 806173 1.2 1.2 1.2 1.1 3.9 1.5 197 24.9 8.1 28.2 92.4 6.5 5.0 4 86 <0.2 17 6.5 4 6.7 187 24 9 8 1 28.4 91.8 5.4 89 <0.2 8.1 28.4 91.9 6.5 6.7 19 203 8.1 91 9 5.4 4 89 <0.2 24 9 28.4 1.0 26 14 25.0 8.1 26.9 97.3 6.9 4.0 83 < 0.2 1.2 Surface 8.1 26.9 97.3 1.2 1.0 2.7 97.2 4 83 15 25.0 8.1 6.9 4.1 <0.2 26.9 1.1 1.2 1.2 4.0 2.3 6.6 4.4 3 86 <0.2 12 24.8 8.1 29.0 94.1 IM3 Fine Moderate 10:12 8.0 Middle 24.8 8.1 29.0 94.2 86 818786 805601 3 4.0 7.0 2.5 4.4 86 88 24.8 8.1 94.2 6.6 <0.2 5.6 24.8 8.1 29.4 95.0 6.7 6.7 Rottom 24.8 8.1 29.4 95.0 7.0 2.6 24.8 8.1 29.4 95.0 6.7 5.5 3 <0.2 1.2 16 88 1.0 1.8 254 1.2 25.5 8.1 26.5 100.4 7.1 3.4 2 83 <0.2 Surface 25.5 8.1 26.5 100.5 1.0 2.0 263 25.5 3.4 2 83 <0.2 1.2 26.5 4.7 244 3.9 85 <0.2 1.1 4 2.0 25.0 8.1 27.9 98.1 6.9 IM4 Fine Moderate 10:21 9.3 Middle 25.0 8.1 27.9 98.1 819736 804629 3.9 4.5 3 3 4 4.7 2.2 1.9 251 25.0 24.7 8.1 98.1 6.9 86 <0.2 8.3 88 1.2 29.9 95.4 6.7 24.7 8.1 6.7 Bottom 29.9 95.4 8.3 2.1 263 24.7 29.9 95.4 6.7 4.4 88 <0.2 1.2 3.2 349 1.2 1.0 24.9 8.1 95.4 13.0 83 <0.2 28.1 6.7 3 Surface 24.9 8.1 28.0 95.4 1.0 3.2 321 24.9 95.4 6.7 13.0 4 83 <0.2 4.1 3.3 345 24.9 14.3 3 86 <0.2 1.1 8.1 28.3 6.7 IM5 Moderate 10:28 8.2 Middle 24.9 8.1 28.2 94.6 820756 804865 Fine 4.1 3.4 357 24.9 14.4 <0.2 5 1.2 3.2 339 24.9 8.1 8.1 28.5 93.9 6.6 15.8 16.0 89 <0.2 24.9 8.1 28.5 93.9 6.6 Bottom 7.2 3.5 347 24.9 28.5 93.9 89 < 0.2 1.0 2.5 221 25.2 8.1 25.1 4.2 5 84 <0.2 1.5 1.5 95.6 Surface 25.2 8.1 25.1 95.6 1.0 2.5 236 25.2 8 1 95.5 6.8 4.3 4 83 <0.2 1.5 4.2 2.3 219 25.1 8.1 25.8 94.5 6.7 5.6 3 86 <0.2 Fine Moderate 10:36 Middle 25.1 8.1 25.8 94.5 821067 805831 <0.2 4.2 2.4 219 25.1 8.1 25.8 94.5 6.7 5.7 4 86 7.5 7.3 1.6 7.3 2.7 216 24.9 8.1 91.2 6.5 3 89 <0.2 91.2 73 27 226 24 9 8 1 4 89 1.8 1.0 0.0 0 25.4 8.1 24.9 96.1 6.8 3.9 84 <0.2 Surface 8.1 96.0 95.8 6.8 1.0 0.0 25.4 8 1 25.0 4.0 3 83 <0.2 3 134 1.9 4.6 0.2 4.3 86 <0.2 25.0 8.1 26.3 93.4 6.7 IM7 Moderate 10:45 9.2 Middle 8.1 93.3 821342 806846 86 4.6 0.2 136 25.0 8.1 26.4 93.1 6.6 4.3 3 8.2 0.2 135 24.9 8.1 27.5 90.8 6.4 5.7 5.7 3 88 <0.2 1.8 Bottom 24.9 8.1 27.5 90.8 8.2 0.2 143 24.9 8.1 90.8 4 <0.2 1.9 1.0 0.1 149 25.2 8.0 26.0 85.7 6.1 6.1 4.4 5 84 < 0.2 1.6 Surface 25.2 8.0 26.0 85.7 26.0 85.7 1.5 163 8.0 4.5 <0.2 1.0 0.1 25.2 6 84 8.0 85.1 6.1 5.5 5 87 <0.2 1.5 4.3 0.1 118 25.1 26.2 808128 25.1 8.0 26.2 85.1 821821 IM8 Fine Moderate 10:16 8.6 Middle 87 1.5 85.1 5.5 88 6.1 4.3 0.1 127 25.1 8.0 26.2 6 1.5 7.6 0.3 101 24.9 8.1 28.0 28.0 84.1 9.4 90 <0.2 5.9 6 24.9 8.1 28.0 84.2 Rottom 5.9

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

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

Water Qual	ity Moni	toring Res	ults on		01 May 21	during Mid-		de			,																	
Monitoring	Weather	Sea	Sampling	Water	Sampling De	anth (m)	Current Speed	Current	Water T	emperature (°C)		pН	Salin	nity (ppt)		Saturation (%)	Dissolv Oxyge		Turbidity(I	NTU)	Suspende (mg		Total All (ppr		Coordinate HK Grid	Coordinate HK Grid	Chromium (µg/L)	Nickel (µg/L
Station	Condition	Condition	Time	Depth (m)	Sampling De	pur (III)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)	Value DA	Value DA
					Surface	1.0	0.2	103 104	25.2 25.2	25.2	8.1 8.1	8.1	26.2 26.2	26.2	83.8 83.8	83.8	6.0 5.9		7.8 7.8		6		83 83				<0.2	1.4
IM9	Fine	Moderate	10:10	8.2	Middle	4.1	0.2	137	25.2	25.2	8.1	8.1	26.4	26.4	83.2	83.2	5.9	5.9	10.9	10.9	4	5	86	86	822108	808831	<0.2	1.4
						4.1 7.2	0.2	145 132	25.2 25.2		8.1 8.0		26.4 26.5		83.2 83.5		5.9 5.9		10.9 14.2	-	5 4	1	87 90				<0.2	1.5 1.5
					Bottom	7.2	0.2	138	25.2	25.2	8.0	8.0	26.5	26.5	83.6	83.6	5.9	5.9	14.0		5		89				<0.2	1.5
					Surface	1.0	0.8	298 318	25.3 25.3	25.3	8.0	8.0	25.9 25.9	25.9	87.1 87.0	87.1	6.2		3.7	ŀ	3	1	82 81				<0.2	1.2
IM10	Fine	Moderate	10:02	8.8	Middle	4.4 4.4	0.6 0.6	296 325	25.0 25.0	25.0	8.0	8.0	27.7 27.7	27.7	82.5 82.4	82.5	5.8 5.8	6.0	11.3 11.5	11.1	3	3	82 83	86	822408	809805	<0.2	1.5 1.5
					Bottom	7.8	0.5	296	25.0	25.0	8.0	8.0	27.8	27.8	82.3	82.3	5.8	5.8	18.1	Ŀ	2	Ì	93				<0.2	1.4
						7.8	0.5	302 312	25.0 25.3		8.0		27.8 26.2		82.3 88.0		5.8 6.2	0.0	18.0 3.6		2		93 82				<0.2	1.4
					Surface	1.0	0.9	319	25.3	25.3	8.0	8.0	26.2	26.2	87.9	88.0	6.2	6.0	3.6	Į	2	1	82				<0.2	1.3
IM11	Fine	Moderate	09:53	8.6	Middle	4.3	0.8	310 313	25.0 25.0	25.0	8.0	8.0	28.1	28.1	82.2 82.2	82.2	5.8		12.3 12.5	12.0	2	3	87 87	86	822058	811454	<0.2	1.3
					Bottom	7.6	0.5	318	24.9	24.9	8.0	8.0	28.5	28.5	81.5 81.5	81.5	5.7 5.7	5.7	19.9	Ī	4	1	90				<0.2	1.3
					Surface	7.6 1.0	0.5	340 300	24.9 25.2	25.2	8.0	8.0	27.3	27.3	86.3	86.3	6.1		20.0 3.6		<u>3</u>		89 85				<0.2 <0.2	1.3
						1.0 4.6	0.9	306 304	25.2 25.2		8.0		27.3 27.6		86.3 85.3		6.1	6.1	3.6 5.4	F	4 5	1	85 89				<0.2	1.3
IM12	Fine	Moderate	09:47	9.1	Middle	4.6	0.9	314	25.2	25.2	8.0	8.0	27.6	27.6	85.3	85.3	6.0		5.7	9.7	4	4	90	89	821478	812029	<0.2	1.3
					Bottom	8.1 8.1	0.6	313 316	25.0 25.0	25.0	8.0	8.0	28.4	28.4	83.6 83.7	83.7	5.9 5.9	5.9	19.9 20.1	-	4	1	91 92				<0.2	1.4
					Surface	1.0 1.0	-	-	25.3 25.3	25.3	8.0	8.0	26.1 26.1	26.1	85.6 85.6	85.6	6.1 6.1		3.1 3.1		4 5	ļ	-				-	-
SR1A	Fine	Moderate	09:16	5.1	Middle	2.6	-		-		-		-		-		-	6.1	-	3.6	-	4	-		819972	812665		-
O.C.II		Moderate	00.10	0.1		2.6 4.1	-	-	25.1		8.0		27.1		82.9		5.9		4.1	0.0	3	1	-		0.0072	0.2000	-	-
					Bottom	4.1	-		25.1	25.1	8.0	8.0	27.1	27.1	83.1	83.0	5.9	5.9	4.1		3		-				-	-
					Surface	1.0	0.2	96 97	25.1 25.0	25.1	8.0	8.0	27.9 27.9	27.9	83.4 83.4	83.4	5.9 5.9		6.2	ŀ	4	1	85 85				<0.2 <0.2	1.4
SR2	Fine	Moderate	09:02	4.3	Middle		-	-	-	-	-	-	-	-	-	-	-	5.9	-	7.8	-	4	-	86	821477	814183	- <0.2	1.3
					Bottom	3.3	0.2	84	25.0	25.0	8.0	8.0	28.3	28.3	83.3	83.4	5.9	5.9	9.3	Ė	4	İ	88				<0.2	1.3
						3.3 1.0	0.2	88 351	25.0 25.1		8.0		28.3 25.6		83.4 88.4		5.9 6.3	0.0	9.4		5 4		87				<0.2	1.3
					Surface	1.0	0.1	323	25.2	25.2	8.0	8.0	25.5	25.6	88.5	88.5	6.3	6.2	3.7	Į	5	1	-				-	-
SR3	Fine	Moderate	10:22	9.9	Middle	5.0 5.0	0.1 0.1	32 32	25.0 25.0	25.0	8.0	8.0	26.4 26.4	26.4	85.9 85.9	85.9	6.1 6.1	-	4.5 4.5	6.2	5 4	5	-	-	822164	807554	-	-
					Bottom	8.9 8.9	0.2	96 99	24.9 24.9	24.9	8.1 8.1	8.1	27.6 27.6	27.6	84.5 84.6	84.6	6.0	6.0	10.2 10.4		6 5	-	-				-	-
					Surface	1.0	2.1	76	24.9	24.9	8.0	8.0	26.8	26.8	92.3	92.3	6.6		5.8		4		-				-	-
						1.0 4.9	2.2	78 77	24.9 24.9		8.0		26.8 27.2		92.2 89.9		6.6	6.5	5.7 7.0		<u>3</u>	1 _	-				-	-
SR4A	Cloudy	Calm	09:16	9.8	Middle	4.9	2.6	77	24.9	24.9	8.0	8.0	27.2	27.2	89.8	89.9	6.4		7.0	6.9	4	5	-	-	817171	807824	•	-
					Bottom	8.8 8.8	2.4	75 77	24.9 24.9	24.9	8.1 8.1	8.1	27.7 27.7	27.7	89.1 89.2	89.2	6.3	6.3	7.8 7.8		6		-					-
					Surface	1.0	0.1 0.1	280 297	25.0 25.0	25.0	8.0	8.0	27.6 27.6	27.6	91.1	91.0	6.4		5.0 5.1		4 5		-				-	-
SR5A	Fine	Calm	08:58	3.3	Middle	-	-	-	-	-	-	-	-		-		-	6.4	-	5.6	-	4	-	-	816575	810718		
						2.3	0.1	276	25.0		8.0		27.8	07.0	89.7	00.7	6.3		6.1	-	3	1	-				-	-
					Bottom	2.3 1.0	0.1	291 302	25.0 25.2	25.0	8.0	8.0	27.8 26.3	27.8	89.7 90.6	89.7	6.3	6.3	6.1 5.8		<u>4</u> 5		-				-	-
					Surface	1.0	0.1	303	25.2	25.2	8.0	8.0	26.3	26.3	90.6	90.6	6.4	6.4	5.8	Ŀ	4	Ì	-				-	-
SR6A	Cloudy	Calm	08:31	4.2	Middle	-	-		-	-		-	-	-	-		-	0.4	-	5.5	-	5	-	-	817957	814734		
					Bottom	3.2	0.1	325	25.2	25.2	7.9	7.9	26.6	26.6	91.0	91.1	6.4	6.5	5.2	Į	6	1	-				-	-
					0(3.2 1.0	0.1	353 116	25.2 25.0		7.9 8.1		26.6 28.2		91.1 86.7		6.5 6.1		5.2 3.4		5 4		-				-	-
					Surface	1.0	0.0	122	25.0	25.0	8.1	8.1	28.2	28.2	86.7	86.7	6.1	6.0	3.4	ļ	3	1	-				-	-
SR7	Fine	Moderate	08:13	14.5	Middle	7.3 7.3	0.1 0.1	184 193	24.8 24.8	24.8	8.1 8.1	8.1	29.3 29.2	29.3	84.4 84.3	84.4	5.9 5.9	-	3.6 3.6	3.4	3	4	-	-	823644	823727	-	-
					Bottom	13.5 13.5	0.1 0.1	76 79	24.7 24.7	24.7	8.1 8.1	8.1	30.4 30.4	30.4	83.5 83.5	83.5	5.8 5.8	5.8	3.2	F	5 4	1	-					-
			1 1		Surface	1.0	-	-	25.2	25.2	8.0	8.0	26.4	26.4	85.6	85.6	6.1		12.3		17	ļ					-	
SR8	Fine	Moderate	09:40	4.4	Middle	1.0	-	-	25.2		8.0		26.4		85.6		6.1	6.1	12.4	14.2	19	20	-		820367	811640	-	-
070	rine	wouerate	09:40	4.4		3.4	-	-	25.2		8.0	•	26.9		85.1		6.0		16.2	14.2	- 22	20	-	-	020307	011040	-	-
DA: Denth-Aver					Bottom	3.4		-	25.2	25.2	8.0	8.0	26.9	26.9	85.2	85.2	6.0	6.0	16.1		21	<u>t </u>	É				-	

Water Qua	lity Moni	toring Res	ults on		04 May 21 dι	uring Mid-E		•					_		D0.0	Saturation 1	D:	٠		10		tal 1-	atal All -P-P			Charit	
Monitoring	Weather	Sea	Sampling	Water	Sampling Depth (n	n)	Current Speed	Current	Water Te	emperature (°C)		pН	Salir	nity (ppt)		aturation (%)	Dissol Oxyg		Turbidity(N1	U) Susp	ended So (mg/L)	ııas F	otal Alkalinity (ppm)	Coordinate HK Grid	Coordinate HK Grid	Chromium (µg/L)	Nickel (µg/L
Station	Condition	Condition	Time	Depth (m)	Sampling Depth (ii	")	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value [)A Va	ue E	ΑV	/alue DA	(Northing)	(Easting)	Value DA	Value DA
					Surface	1.0	2.0	99 103	25.3 25.2	25.3	8.1	8.1	24.9 24.9		96.6 96.0	96.3	6.9 6.9		3.5 3.4	3			88 88			<0.2	1.2
C1	Fine	Calm	18:42	8.4	Middle	4.2	1.9	94	25.1	25.1	8.1	8.1	28.9	20.0	94.0	93.9	6.6	6.8	6.1	, 3		. Г	91	815643	804255	<0.2	1.3
						4.2 7.4	1.9 2.0	100 98	25.1 25.1		8.1 8.1		29.0 29.1		93.8 93.7		6.6		6.2 7.9				92 91			<0.2	1.2
					Bottom	7.4 1.0	2.2 0.5	107 143	25.1 25.4	25.1	8.1 8.1	8.1	29.1 24.2		93.8 88.2	93.8	6.6	6.6	7.9 3.4	2			93 84			<0.2	1.3
					Surface	1.0	0.5	148	25.4	25.4	8.1	8.1	24.2	24.2	88.0	88.1	6.3	6.0	3.5				85			<0.2	1.6
C2	Fine	Moderate	17:44	11.9	Middle	6.0	0.5	133 139	25.1 25.1	25.1	8.1 8.1	8.1	28.5	28.6	81.0 80.7	80.9	5.7 5.7	0.0	4.4	.2		; -	88 88	825662	806958	<0.2 <0.2	2 1.8 1.7
					Bottom	10.9	0.4	165	25.0	25.0	8.1	8.1	29.7	29.7	80.0	80.1	5.6	5.6	4.8				92			<0.2	1.6
					Surface	10.9 1.0	0.4	173 123	25.0 25.3	25.3	8.1 8.1	8.1	29.7 28.8	28.8	80.1 87.4	87.3	5.6 6.1		4.6 3.1	2			91 89			<0.2 <0.2	1.6
						1.0 6.1	0.6	132 121	25.2 25.1		8.1 8.1		28.9 29.4		87.1 86.5		6.1	6.1	2.9	0 3			90			<0.2	1.9
C3	Fine	Moderate	19:31	12.2	Middle	6.1	0.4	125	25.1	25.1	8.1	8.1	29.4	29.4	86.5	86.5	6.0		2.5	.9		, Е	90	822121	817783	<0.2	1.9
					Bottom	11.2 11.2	0.3	109 110	24.7 24.8	24.8	8.1 8.1	8.1	31.4 31.4		84.9 85.4	85.2	5.9 5.9	5.9	3.4	3			93 93			<0.2	1.7
					Surface	1.0 1.0	0.2	190 199	25.3 25.2	25.3	8.1 8.1	8.1	25.0 25.0	25.0	97.2 96.8	97.0	6.9		2.5	- 3			88 87			<0.2	1.2
IM1	Fine	Calm	18:24	5.2	Middle	-	-	-	-		-		-		-	_	-	6.9		٠ .			- 87	817970	807113	- <0.2	
			10.2			4.2	0.1	186	25.2		8.1		28.7		97.0		6.8	_	3.4		_	-	87			<0.2	1.2
					Bottom	4.2 1.0	0.1 2.3	198 303	25.2 25.2	25.2	8.1 8.1	8.1	28.7 25.0	28.7	97.4	97.2	6.8	6.8	3.5	3			87 87			<0.2 <0.2	1.2
					Surface	1.0	2.5	310	25.2	25.2	8.1	8.1	25.0	25.0	96.7 96.3	96.5	6.9 6.9	6.8	3.4	4			87			<0.2	1.1
IM2	Fine	Calm	18:19	7.0	Middle	3.5 3.5	2.5	301 315	25.1 25.1	25.1	8.1	8.1	28.7	28.7	95.1 95.0	95.1	6.7	0.0	4.8	.5			91 92 90	818152	806155	<0.2	2 1.1 1.1
					Bottom	6.0 6.0	2.3	298 313	25.1 25.1	25.1	8.1 8.1	8.1	29.0 29.0	29.0	95.2 95.6	95.4	6.7	6.7	5.3 5.3	2			92			<0.2	1.1
					Surface	1.0	1.6	276	25.3	25.3	8.1	8.1	25.0	25.0	97.1	96.9	6.9		3.1				89			<0.2	1.1
						1.0 3.7	1.8	300 260	25.2 25.1		8.1 8.1		25.0 28.7		96.6 95.4		6.9	6.8	3.1 5.1				92			<0.2	1.0
IM3	Fine	Calm	18:14	7.4	Middle	3.7	1.8	275	25.1	25.1	8.1	8.1	28.8	20.0	95.2	95.3	6.7		5.1	.6		· [92	818799	805604	<0.2	1.2
					Bottom	6.4 6.4	1.8	274 275	25.1 25.1	25.1	8.1	8.1	29.0 29.0		95.4 95.6	95.5	6.7	6.7	5.7 5.7	3			93 93			<0.2	1.2
					Surface	1.0	2.2	231 253	25.4 25.4	25.4	8.1 8.1	8.1	24.8 24.8	24.8	98.6 98.5	98.6	7.0 7.0		3.0	3			88 89			<0.2 <0.2	1.2
IM4	Fine	Calm	18:08	8.6	Middle	4.3	2.3	245	25.1	25.1	8.1	8.1	28.8	28.8	95.2	95.1	6.7	6.9	4.4	,		, Е	91	819723	804592	<0.2	2 1.1
						4.3 7.6	2.5	251 254	25.1 25.1	25.1	8.1 8.1		28.8		95.0 94.5		6.7 6.6	6.6	4.5 5.7	. 3			91 91			<0.2	1.1
					Bottom	7.6 1.0	2.2	269 254	25.1 25.3		8.1 8.1	8.1	29.0 25.5	29.0	94.6 96.2	94.6	6.6 6.8	6.6	5.6 2.2	3			93 91			<0.2 <0.2	1.2
					Surface	1.0	2.0	256	25.2	25.3	8.1	8.1	25.8	25.6	95.7	96.0	6.8	6.8	2.2	3			91			<0.2	1.1
IM5	Fine	Calm	18:03	8.0	Middle	4.0	2.3	266 276	25.1 25.1	25.1	8.1 8.1	8.1	26.6	26.7	95.0 94.8	94.9	6.7		5.5	.5			91 91	820720	804869	<0.2	2 1.2 1.2
					Bottom	7.0 7.0	2.1	276 287	25.1 25.1	25.1	8.1 8.1	8.1	29.0	29.0	94.7 94.8	94.8	6.6	6.6	5.9 6.0	2			93 93			<0.2 <0.2	1.2
					Surface	1.0	1.4	111	25.5	25.5	8.1	8.1	24.7	24.7	98.9	98.9	7.0		2.9	3			88			<0.2	1.2
						1.0 3.9	1.4	118 128	25.5 25.1		8.1 8.1		24.8 28.4		98.8 94.8		7.0 6.7	6.9	3.0 4.9	3			90			<0.2	1.0
IM6	Fine	Calm	17:58	7.8	Middle	3.9	1.7	139	25.1	25.1	8.1	8.1	28.1	28.2	94.6	94.7	6.7		4.9	.0		' E	90	821038	805816	<0.2	1.1
					Bottom	6.8	1.7	122 130	25.1 25.1	25.1	8.1 8.1	8.1	29.0 29.0	29.0	94.1	94.1	6.6	6.6	7.3 7.3	3			92 91			<0.2	1.1
					Surface	1.0 1.0	1.8 1.8	45 49	25.3 25.3	25.3	8.1 8.1	8.1	25.1 25.1	25.1	96.9 96.3	96.6	6.9 6.9		3.2	3			87 87			<0.2 <0.2	1.1
IM7	Fine	Calm	17:46	8.8	Middle	4.4	1.6	57	25.1	25.1	8.1	8.1	28.9	29.0	93.6	93.5	6.6	6.7	6.8	1 4		, Е	90 00	821355	806843	<0.2	2 1.0 1.1
			"			4.4 7.8	1.7	59 43	25.1 25.1		8.1 8.1		29.0 29.0		93.4 93.2		6.5		6.8 8.3	. 3			90 90			<0.2	1.1
					Bottom	7.8	1.6	44 143	25.1	25.1	8.1	8.1	29.0	29.0	93.2	93.2	6.5	6.5	8.3	3			92		<u> </u>	<0.2	1.1
					Surface	1.0	0.2	150	25.4	25.4	8.1 8.1	8.1	26.1	26.1	86.5	86.6	6.1	6.2	3.8 4.0	- 4			84			<0.2	1.7
IM8	Fine	Moderate	18:08	7.9	Middle	4.0 4.0	0.2	88 95	25.2 25.2	25.2	8.1 8.1	8.1	27.1 27.1	27.1	87.9 88.3	88.1	6.2	0.2	5.2 5.5	.2		. [89 90 88	821816	808132	<0.2	2 1.8 1.8
					Bottom	6.9	0.3	59	25.1	25.1	8.1	8.1	29.1	29.0	89.0	89.0	6.2	6.2	6.4	3			90			<0.2	1.9
DA: Depth-Ave						6.9	0.3	61	25.1		8.1		29.0		89.0		6.2	/	6.3	4			92			<0.2	1.7

Vater Qual Vater Qual			ults on		04 May 21	during Mid-		е																				
Monitoring	Weather	Sea	Sampling	Water			Current Speed	Current	Water Te	emperature (°C)		pН	Salin	ity (ppt)		aturation (%)	Disso Oxy	olved raen	Turbidity(NTU)	Suspende (mg/	d Solids L)	Total All		Coordinate	Coordinate	Chromium (µg/L)	Nickel (με
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	Value	DA	HK Grid (Northing)	HK Grid (Easting)	Value DA	A Value D
	1				Surface	1.0	0.4	142	25.4	25.4	8.1 8.1	8.1	25.7	25.7	88.1	88.0	6.2		3.5	ļ	3		83				<0.2	1.7
11.40	-		40.40	7.0	A# 1 II .	1.0 3.8	0.4	153 132	25.4 25.3	05.0	8.1		25.8 26.1	00.4	87.9 87.9	88.0	6.2	6.2	3.5 4.4	4.8	3	3	83 86	87	000400	000000	<0.2	1.9
IM9	Fine	Moderate	18:13	7.6	Middle	3.8	0.3	143	25.2	25.3	8.1	8.1	26.1	26.1	88.0	88.0	6.3		4.6	4.8	4	3	87	87	822106	808809	<0.2 <0.3	1.6
					Bottom	6.6 6.6	0.4	107	25.1 25.1	25.1	8.1 8.1	8.1	29.0 29.0	29.0	88.2 88.2	88.2	6.2	6.2	6.6 6.4	-	3		90				<0.2	1.8
					Surface	1.0	0.6	115 124	25.5 25.4	25.5	8.1 8.1	8.1	24.6 24.6	24.6	92.2 92.0	92.1	6.6		3.2		4		85 85				<0.2	1.6
IM10	Fine	Moderate	18:18	7.2	Middle	3.6	0.5	100	25.4	25.2	8.1	8.1	27.2	27.4	86.8	86.8	6.1	6.4	4.3	4.3	3	4	88	88	822386	809812	<0.2	1.6
IIVITO	rile	Woderate	10.10	1.2	Middle	3.6 6.2	0.5 0.4	100 127	25.2 25.2		8.1 8.1		27.5 28.4		86.7 86.9		6.1		4.1 5.5	4.3	4	4	88 91		022300	009012	<0.2	1.7
					Bottom	6.2	0.4	139	25.2	25.2	8.1	8.1	28.3	28.4	87.0	87.0	6.1	6.1	5.5		3		91				<0.2	1.6
					Surface	1.0	0.7	124 136	25.5 25.4	25.5	8.1	8.1	25.0 25.0	25.0	90.1 89.7	89.9	6.4		3.2	-	3		86 87				<0.2	1.7
IM11	Fine	Moderate	18:27	7.0	Middle	3.5	0.6	116	25.3	25.3	8.1	8.1	27.6	27.7	83.6	83.5	5.9	6.2	4.2	4.1	4	3	89	89	822050	811441	<0.2	1.8
						3.5 6.0	0.6	121	25.2 25.2		8.1 8.1		27.9 28.5		83.4 84.0		5.9 5.9		4.3 4.7		3		89 91				<0.2	1.7
					Bottom	6.0	0.5	138	25.2	25.2	8.1	8.1	28.4	28.4	84.3	84.2	5.9	5.9	4.7		3		90				<0.2	1.7
					Surface	1.0	0.6	99 106	25.4 25.4	25.4	8.1	8.1	26.7 26.8	26.7	85.8 85.6	85.7	6.1		3.5 3.6	H	4 5		85 87				<0.2	1.8
IM12	Fine	Moderate	18:32	9.6	Middle	4.8	0.6	102	25.1	25.1	8.1	8.1	28.5	28.5	82.1	81.9	5.8	5.9	4.7	4.6	4	4	88	88	821441	812044	<0.2	1.8
					Bottom	4.8 8.6	0.6 0.5	110 75	25.1 25.1	25.1	8.1 8.1	8.1	28.6 29.0	28.9	81.6 80.0	80.3	5.7 5.6	5.6	4.8 5.5	H	3		87 91				<0.2	1.8
					Bottom	8.6	0.5	81	25.1	25.1	8.1	8.1	28.9	28.9	80.5	80.3	5.6	5.6	5.6		3		91				<0.2	1.8
					Surface	1.0 1.0	-	-	25.3 25.2	25.3	8.1 8.1	8.1	27.5 27.8	27.7	84.8 84.4	84.6	6.0 5.9	6.0	4.3 4.7		3		-				-	-
SR1A	Fine	Calm	18:59	5.3	Middle	2.7	-	-	-		-		-	-	-	-		6.0	-	5.0	-	4	-	-	819971	812665		-
					Bottom	4.3	-		25.1	25.1	8.1	8.1	28.6	28.7	84.4	84.7	5.9	6.0	5.5	Ė	4		-					-
						4.3 1.0	0.4	- 89	25.1 25.6		8.1 8.1	 	28.7 25.9		84.9 92.1		6.0	0.0	5.6 2.5		5 7		- 87				<0.2	1.7
					Surface	1.0	0.4	97	25.5	25.6	8.1	8.1	26.2	26.0	91.8	92.0	6.5	6.5	2.5	Ė	7		87				<0.2	1.9
SR2	Fine	Calm	19:12	4.4	Middle	-	-	-	-	-	-	-		-	-	-	-	0.0	-	2.5	-	5	-	90	821443	814147	- <0.	.2 -
					Bottom	3.4	0.4	74	25.4	25.4	8.1	8.1	26.8	26.9	91.6	91.7	6.5	6.5	2.5	1	3		92				<0.2	1.8
						3.4 1.0	0.4	80 211	25.4 25.5		8.1 8.1		26.9 24.6		91.7		6.5		2.5 3.4		4		93				<0.2	1.8
					Surface	1.0	0.1	219	25.4	25.5	8.1	8.1	24.6	24.6	89.9	90.1	6.4	6.2	3.5	Ī	4		-				-	-
SR3	Fine	Moderate	18:04	9.0	Middle	4.5 4.5	0.1	138 145	25.2 25.1	25.2	8.1 8.1	8.1	28.1	28.2	84.0 84.6	84.3	5.9		4.3 4.1	4.4	3	4	-	-	822123	807580	-	-
					Bottom	8.0	0.1	126	25.0	25.1	8.1	8.1	29.2	29.2	89.2	89.2	6.2	6.2	5.7	1	4		-				-	-
					Surface	8.0 1.0	0.1 2.1	134 251	25.1 25.4	25.4	8.1 8.1	8.1	29.2 24.7	247	89.1 98.8	98.8	6.2 7.1		5.6 3.5		3		-				-	+-+
					Surface	1.0 4.5	2.2	267 267	25.3 25.1	25.4	8.1 8.1	8.1	24.7	24.7	98.7 94.4	98.8	7.1 6.6	6.9	3.5 4.9	Ī	2		-				-	-
SR4A	Fine	Calm	19:02	9.0	Middle	4.5	2.2	280	25.1	25.1	8.1	8.1	29.0	29.0	94.4	94.5	6.6		4.9	4.6	3	3	-	-	817181	807798	-	-
					Bottom	8.0 8.0	2.4 2.4	258 273	25.1 25.1	25.1	8.1 8.1	8.1	28.6 28.5	28.6	95.6 95.9	95.8	6.7	6.7	5.4 5.4	F	3		-				-	-
					Surface	1.0	0.1	56	25.5	25.5	8.1	8.1	24.7	24.8	97.5	97.2	6.9		2.9		3		-				-	-
						1.0	0.1	59	25.5		8.1	3.1	24.9	24.0	96.9	31.2	6.9	6.9	3.0	F	3		-				-	-
SR5A	Fine	Calm	19:17	3.6	Middle	-	-		-	-	-	-		-	-	-	-		-	3.1	-	3	-	-	816569	810705	-	-
					Bottom	2.6 2.6	0.1 0.1	50 50	25.4 25.4	25.4	8.1 8.1	8.1	25.8 25.8	25.8	97.0 97.7	97.4	6.9	6.9	3.3	-	3		-				-	-
					Surface	1.0	0.1	354	25.3	25.3	8.1	8.1	24.9	24.9	97.5	97.4	7.0		2.1		3		-				-	-
						1.0	0.1	326	25.3		8.1	0.1	24.9	21.0	97.2	07.1	6.9	7.0	2.1	ŀ	2		-				-	-
SR6A	Fine	Calm	19:44	4.0	Middle	-	-	-	-	-	-	-	-	-	-	-	-		-	2.6	-	3	-	-	817943	814761		-
					Bottom	3.0	0.0	340 352	25.3 25.4	25.4	8.1 8.1	8.1	27.9	27.8	97.8 98.2	98.0	6.9	6.9	3.0	ŀ	3		-				-	-
					Surface	1.0	0.6	72	25.1	25.1	8.1	8.1	30.1	30.1	89.9	89.8	6.3		2.4		<2		-				-	
0.0-7		0.1	00.00	40.5		1.0 9.8	0.7 0.5	72 56	25.0 24.7		8.1 8.1		30.2 31.8		89.7 83.4		6.2 5.8	6.0	2.4		<2 <2		-		200005	000745	-	-
SR7	Fine	Calm	20:02	19.5	Middle	9.8	0.6	58	24.7	24.7	8.1	8.1	31.8	31.8	83.3	83.4	5.8		3.2	3.2	<2	2	-	-	823632	823740	-	-
					Bottom	18.5 18.5	0.4	38 39	24.6 24.6	24.6	8.1 8.1	8.1	32.0	31.9	79.8 79.3	79.6	5.5 5.5	5.5	4.4 4.1	ŀ	3		-				-	-
					Surface	1.0 1.0	-	-	25.6 25.6	25.6	8.1 8.1	8.1	26.1 26.1	26.1	90.8	90.9	6.4		3.8 3.8		4		-				-	_
SR8	Fine	Calm	18:39	4.2	Middle	1.0			20.6	_	6.1		∠0.1		90.9		0.4	6.4	3.8	3.7	3	4			820386	811628		
SNO	FILE	Callii	10.35	4.2		3.2	-		25.8		8.1		26.0	-	91.3	-	6.4		3.7	3.1	- 4	4	-		020300	011020	-	-
					Bottom	3.2		-:-	26.0	25.9	8.1	8.1	26.0	26.0	91.3	91.3	6.4	6.4	3.7	f	3						-	-

Water Quality Monitoring Results on 04 May 21 during Mid-Flood Tide DO Saturation Dissolved Suspended Solids Total Alkalinity Chromium Salinity (ppt) Turbidity(NTU) Coordinate Coordinate Nickel (µg/L) Weather Sampling Water Water Temperature (°C) Monitoring Current Speed Oxvaen (mg/L) (maga) Sampling Depth (m) HK Grid HK Grid Station Direction Condition Time Depth (m) (m/s) Average Value Average Average Value Average Value DA Value DA Value DA Value DA (Northing) Value DA Value DA Condition Value Value (Easting) 25.0 1.7 Surface 25.0 8.1 29.2 100.7 1.0 1.8 247 25.0 29.3 100.5 7.0 4.0 86 <0.2 1.4 235 8.2 1.4 25.0 89 <0.2 C1 8 1 30.4 98.5 804237 07:30 84 Middle 25.0 88 815640 Fine Calm 239 24.9 8.1 30.4 98.4 6.9 3 89 <0.2 1.4 2.0 8.2 7.4 1.8 228 24.9 8.1 30.4 97.1 6.8 9.0 2 88 <0.2 1.5 8.1 97.2 6.8 Bottom 24 9 30.4 97.2 6.8 1.5 7.4 24.9 30.4 9.1 1.9 246 8.1 88 < 0.2 1.0 0.3 3.8 < 0.2 8.1 24.8 1.0 Surface 25.3 8.1 24.8 84.6 6.0 3.9 4.7 188 8.1 84.2 87 1.0 0.3 25.3 24.8 3 <0.2 1.1 6.1 0.2 178 25.2 8.1 5.8 28.1 82.2 92 C2 Cloudy Moderate 08:32 122 Middle 25.2 8.1 28.2 82.2 90 825678 806925 28.3 82.1 5.8 5.0 4 91 <0.2 6.1 0.2 181 25.2 8.1 11.2 0.2 164 25.1 8.1 82.9 5.8 5.3 4 93 <0.2 1.1 29.3 8.1 83.1 5.8 Bottom 25.2 29.2 11.2 0.2 177 25.2 8.1 29.2 83.2 5.8 5.2 3 93 <0.2 1.0 0.2 214 24.8 8.1 2.3 <0.2 1.6 Surface 24.8 8.1 30.2 86.7 1.0 0.2 215 24.8 8.1 30.2 86.5 6.0 2.3 3 88 <0.2 1.7 3.0 1.5 6.2 247 24.7 8.1 5.8 3 90 91 <0.2 0.2 31.7 82.9 C3 817798 Cloudy Moderate 06:29 12.4 Middle 24.7 8.1 31.7 82.9 90 822126 1.6 0.2 253 11.4 0.1 283 24.7 8.1 31.8 83.3 5.8 3.7 2 92 <0.2 1.7 Bottom 24.7 8.1 31.8 83.4 5.8 11.4 0.1 298 24.7 8.1 31.8 83.4 5.8 3.6 1.6 1.0 1.9 243 25.2 3.4 <0.2 1.4 Surface 25.2 8.1 28.0 98.9 1.0 1.9 245 25.2 8.1 28.0 98.9 7.0 3.4 4 86 <0.2 1.5 807146 IM1 Fine Calm 07:51 5.2 Middle 817941 4.2 16 240 25.0 8.0 28.5 94.0 6.6 5.3 4 88 < 0.2 15 Bottom 25.1 8.0 28.4 94.1 6.6 4.2 1.6 263 25.1 8.0 28.3 94.1 6.6 5.2 4 88 <0.2 1.4 1.0 1.7 25.1 8.1 28.3 99.5 7.0 4.1 5 86 < 0.2 1.5 Surface 8.1 28.3 99.4 1.0 1.8 56 25.1 8.1 28.3 99.3 7.0 4.1 4 86 <0.2 1.6 3.6 1.6 55 25.0 8.1 28.5 98.9 7.0 6.2 4 90 <0.2 1.5 IM2 Fine Calm 07:59 7.2 Middle 8.1 28.5 98.9 89 818142 806179 <0.2 1.4 3.6 1.7 57 25.0 8.1 28.5 98.9 7.0 6.2 5 90 2 1.6 6.2 15 60 24.8 8 1 30.7 93.7 6.5 8.0 90 <0.2 8.1 30.7 93.7 6.5 6.2 93.7 6.5 7.9 1.6 61 8.1 30.7 ٩n <0.2 24.8 1.0 2.5 25.1 8.1 28.5 99.8 7.0 16 4 87 < 0.2 1.6 Surface 8.1 28.6 99.7 1.5 1.0 2.7 7.0 5 87 25.0 8.1 28.8 99.6 1.6 <0.2 1.6 1.4 1.5 3.7 2.7 6.9 4.4 5 90 <0.2 10 24.9 8.1 29.9 98.0 IM3 Fine Calm 08:02 7.4 Middle 24.9 8.1 30.0 96.2 89 818763 805608 5 4 4.3 6.5 3.7 90 91 2.7 10 24.9 8.1 94.4 6.6 <0.2 6.4 24.9 8.1 30.7 93.9 6.5 Rottom 24.9 8.1 30.7 94.0 6.5 6.4 2.8 24.9 8.1 30.7 94.1 6.5 6.5 <0.2 1.5 91 1.0 2.6 11 1.5 25.2 8.1 26.6 102.0 7.2 3.5 4 88 <0.2 Surface 25.2 8.1 26.6 101.8 2.9 25.2 3.6 4 88 <0.2 1.5 26.6 4.3 3.8 5 <0.2 1.5 91 3.0 25.1 8.1 29.2 99.2 6.9 IM4 Fine Calm 08:08 8.6 Middle 25.1 8.1 29.3 99.2 819723 804612 3.8 7.2 7.3 4.3 25.1 8.1 99.1 6.9 4 91 <0.2 3.3 13 29.3 3.2 25.0 3 1.6 8.1 30.0 93.9 6.6 8.1 Bottom 25.0 30.0 94.0 6.6 7.6 3.4 25.0 29.9 6.6 86 <0.2 1.5 1.2 1.0 2.0 271 25.3 8.1 26.5 3.2 5 86 <0.2 102.4 7.2 Surface 25.3 8.1 26.4 102.3 1.0 2.2 282 25.3 8.1 102. 7.2 3.3 4 87 <0.2 4.0 2.2 266 4.7 5 90 <0.2 1.6 25.0 8.1 29.6 6.9 IM5 Fine Calm 08:15 8.0 Middle 25.0 8.1 29.7 99.0 820754 804848 4.0 2.4 280 25.0 4.8 <0.2 7.4 3 4 1.2 2.0 254 25.0 8.1 8.1 30.0 94.6 94.4 6.6 91 <0.2 Bottom 25.0 8.1 94.5 6.6 29.9 7.0 2.0 264 25.0 29.9 91 < 0.2 1.0 1.8 290 25.1 8.1 26.6 3.4 3 89 <0.2 1.6 1.6 Surface 8.1 26.6 100.8 1.0 1.9 311 25.1 8 1 26.7 7 1 3.4 4 89 <0.2 1.6 3.9 2.1 276 25.1 8.1 3.6 4 89 <0.2 Fine Calm 08:21 Middle 25.1 8.1 29.2 99.2 821060 805840 <0.2 3.9 2.3 284 25.1 8.1 29.3 98.9 6.9 3.7 3 89 25.1 25.1 1.2 6.8 1.9 290 8.1 6.8 4.1 2 92 <0.2 97.1 6.8 19 307 8 1 29.8 42 92 1.6 7.1 1.0 1.9 43 25.1 8.1 26.7 99.8 2.7 2 88 <0.2 Surface 99.6 2.6 3.9 1.0 2.0 46 25.1 8 1 26.8 99.3 3 88 <0.2 3 1.6 1.5 4.5 2.0 56 90 <0.2 25.0 8.1 29.9 97.6 6.8 IM7 Calm 08:31 9.0 Middle 8.1 97.0 821369 806851 90 4.5 2.1 58 24.9 8.1 30.0 96.3 6.7 3.8 2 8.0 2.0 42 24.9 8.1 30.2 92.0 6.4 5.5 3 91 <0.2 1.6 Bottom 24.9 8.1 30.1 92.1 8.0 46 24.9 8.1 30.1 5.5 <0.2 1.6 1.0 0.1 271 25.4 8.1 25.3 87.4 6.2 3.7 3 86 < 0.2 1.6 Surface 25.4 8.1 25.4 87.2 25.4 87.0 1.6 8.1 87 <0.2 1.0 0.1 286 25.4 3.8 4 8.1 87.2 6.2 4.2 4 90 <0.2 1.6 4.0 0.1 211 25.3 26.2 25.3 8.1 26.3 87.4 821852 808160 IM8 Cloudy Moderate 08:07 8.0 Middle 90 1.6 87.5 90 6.2 4.3 4.0 0.1 218 8.1 26.3 3 25.2 7.0 4.7 92 1.6 0.2 107 8.1 29.1 88.1 4 <0.2 25.0 6.2 25.0 8.1 29.1 88.1 6.2 Rottom

DA: Depth-Average

Water Qua Water Qua		toring toring Res	ults on		04 May 21 du	ıring Mid-I	Flood Tic	de																					
Monitoring	Weather	Sea	Sampling	Water			Current Speed	Current	Water Te	emperature (°C)		pН	Salir	nity (ppt)		aturation (%)	Disso		Turbidity(NTU)	Suspende (mg.		Total Alka (ppm)	, Coc		Coordinate	Chromium (µg/L)	Nickel (µg	/L)
Station	Condition	Condition	Time	Depth (m)	Sampling Depth (n	n)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value [K Grid orthing)	HK Grid (Easting)	Value DA	Value D	A
					Surface	1.0 1.0	0.1	65 70	25.4 25.4	25.4	8.0 8.0	8.0	25.4	25.5	86.8 86.6	86.7	6.2		4.0 4.1		3		85 86				<0.2 <0.2	1.6	
IM9	Cloudy	Moderate	08:02	7.8	Middle	3.9	0.1	46 47	25.3	25.3	8.1	8.1	27.0	27.0	86.8 87.1	87.0	6.1	6.2	4.4	4.8	4	4	88	88 82	22092	808797	<0.2	1.6	.6
					Bottom	3.9 6.8	0.1	138	25.2 25.0	25.0	8.1 8.1	8.1	27.0 29.0	29.0	87.9	87.9	6.2	6.2	4.3 5.9		3		87 90				<0.2	1.6	
					Surface	6.8 1.0	0.1	143 49	25.0 25.4		8.1 8.1		29.0 25.4		87.9 86.2		6.2	*	5.9 3.8		4 5		90 85				<0.2	1.6	-
						1.0 3.7	0.2	51 73	25.4 25.2	25.4	8.1 8.1	8.1	25.5 26.4	25.4	86.1 85.9	86.2	6.1 6.1	6.1	4.0 4.7	F	4		85 87				<0.2	1.5	
IM10	Cloudy	Moderate	07:55	7.4	Middle	3.7	0.2	75	25.2	25.2	8.1	8.1	26.4	26.4	86.0	86.0	6.1		4.8	4.8	3	4	87	87 82	22373	809771	<0.2	1.7	.6
					Bottom	6.4 6.4	0.2	53 54	25.1 25.2	25.2	8.1 8.1	8.1	28.6 28.3	28.5	86.3 86.4	86.4	6.1 6.1	6.1	5.7 5.8	-	3		90 89				<0.2 <0.2	1.6 1.5	
					Surface	1.0	0.3	137 142	25.4 25.3	25.4	8.1 8.1	8.1	25.3 25.4	25.3	88.5 88.3	88.4	6.3	6.2	3.0	F	5		85 85				<0.2	1.3	
IM11	Cloudy	Moderate	07:44	7.2	Middle	3.6 3.6	0.2	147 156	25.2 25.2	25.2	8.1 8.1	8.1	28.1	28.1	86.1 85.8	86.0	6.0	0.2	3.4 3.6	3.9	5 4	4	88 89	88 82	22042	811470	<0.2	1.3	.3
					Bottom	6.2 6.2	0.1	136 140	25.1 25.1	25.1	8.1 8.1	8.1	28.6 28.6	28.6	85.0 85.0	85.0	6.0	6.0	5.2 5.4	F	4		89 90				<0.2 <0.2	1.3	
					Surface	1.0	0.4	146	25.3	25.3	8.1	8.1	26.4	26.5	89.5	89.4	6.3		3.0		5		83				<0.2	1.3	-
IM12	Cloudy	Moderate	07:36	10.0	Middle	1.0 5.0	0.4 0.1	149 169	25.2 25.1	25.1	8.1 8.1	8.1	26.5 28.7	28.8	89.2 82.5	82.3	6.3 5.8	6.0	3.1 4.0	4.3	4	4	83 89	88 82	21481	812032	<0.2	1.4	.3
IIVITZ	Cloudy	Woderate	07.50	10.0		5.0 9.0	0.2	169 138	25.1 25.1		8.1 8.1		28.8		82.0 81.7		5.7 5.7		4.0 5.7		5 3		90	00 02	21401	012002	<0.2	1.3	,
					Bottom	9.0 1.0	0.2	149	25.1 25.1	25.1	8.1 8.1	8.1	28.9	29.1	82.1 83.6	81.9	5.7 5.9	5.7	5.8 4.2		3		92				<0.2	1.3	_
					Surface	1.0		-	25.1	25.1	8.1	8.1	27.1	27.1	83.4	83.5	5.9	5.9	4.1	ļ	3		-				-	-	
SR1A	Cloudy	Calm	07:07	5.3	Middle	2.7	-		-	-	-	-	-	-	-	-	-		-	4.4	-	3	-	- 81	19973	812654	-		
					Bottom	4.3 4.3	-		25.1 25.1	25.1	8.1 8.1	8.1	29.2 29.2	29.2	83.4 83.7	83.6	5.8 5.9	5.9	4.8 4.5	-	2		-				-	-	
					Surface	1.0	0.4	24 24	25.2 25.2	25.2	8.1 8.1	8.1	27.9 28.0	28.0	85.2 84.5	84.9	6.0 5.9		4.1 4.2	-	3		89 89				<0.2 <0.2	1.0	
SR2	Cloudy	Calm	06:52	4.6	Middle	-	-		-	-	-	-	-	-	-	-	-	6.0		4.8	-	3		90 82	21485	814166	- <0.2	2 - 1.	.0
					Bottom	3.6 3.6	0.2	33 33	25.0 25.0	25.0	8.1 8.1	8.1	29.0 29.1	29.1	82.7 82.3	82.5	5.8 5.8	5.8	5.5 5.3	þ	2		90				<0.2 <0.2	1.0	
					Surface	1.0	0.1	328	25.4	25.4	8.0	8.0	24.9	25.0	86.2	85.9	6.1		3.4		4		-				-	-	-
SR3	Cloudy	Moderate	08:12	9.2	Middle	1.0 4.6	0.1	344 304	25.4 25.2	25.2	8.1 8.1	8.1	25.1 27.3	27.3	85.6 83.9	84.8	6.1 5.9	6.1	3.6 4.7	4.5	5 4	4	-		22152	807567	-	-	
OKS	Cloudy	Woderate	00.12	3.2		4.6 8.2	0.1	316 1	25.1 25.1		8.1 8.1		27.2		85.6 88.8		6.1		4.4 5.3	7.5	5	•	-	- 02	22132	001301	-	-	
					Bottom	8.2 1.0	0.1 1.6	1 259	25.1 25.1	25.1	8.1 8.1	8.1	28.9 28.4	28.9	88.6 97.5	88.7	6.2	6.2	5.3 4.1		4		-				-	-	_
					Surface	1.0	1.6	271 259	25.1 25.0	25.1	8.1	8.1	28.5	28.4	97.3 95.9	97.4	6.8	6.8	4.2 6.4	þ	3		-				-	-	
SR4A	Fine	Calm	07:09	9.6	Middle	4.8	1.9	266	25.0	25.0	8.1	8.1	29.5	29.5	95.8	95.9	6.7		6.3	6.4	4	3	-	- 81	17198	807817	-		
					Bottom	8.6 8.6	1.7	263 268	25.0 25.0	25.0	8.1 8.1	8.1	29.7 29.7	29.7	95.8 96.2	96.0	6.7	6.7	8.7 8.7		3		-				-	-	
					Surface	1.0 1.0	0.0	13 13	25.1 25.1	25.1	8.0	8.0	27.2	27.3	91.2 90.7	91.0	6.4		3.8 3.9	-	<2 <2		-				-	-	
SR5A	Fine	Calm	06:50	3.6	Middle		-		-		-	-	-	-	-	-	-	6.4	-	5.3	-	3	-	- 81	16572	810702	-	<u> </u>	
					Bottom	2.6	0.0	77	25.1	25.1	8.0	8.0	27.2	27.2	89.2 88.8	89.0	6.3	6.3	6.8	þ	3		-				-	-	
					Surface	2.6 1.0	0.0	78 129	25.1 25.2	25.2	8.0	8.0	27.1	27.1	91.6	91.6	6.5		3.7	L	3		-				-	-	-
SR6A	Fine	Calm	06:23	4.2	Middle	1.0	0.1	131	25.2		8.0		27.2		91.5		6.5	6.5	3.6	4.3	4	3	-		17974	814733	-	-	
SKOA	rine	Cairii	06:23	4.2		3.2	0.1	133	25.2		8.0	-	27.5	-	89.9	-	6.3		5.0	4.3	2	3	-	- 01	17974	014/33	- '	- '	
					Bottom	3.2	0.1	141	25.2	25.2	8.0	8.0	27.6	27.6	89.6 83.6	89.8	6.3	6.3	5.0		3		-				-	-	_
					Surface	1.0	0.0	107	24.7	24.7	8.1	8.1	31.3	31.3	83.6	83.6	5.8	5.8	2.8	ļ	4		-				-	-	
SR7	Fine	Calm	05:57	19.9	Middle	10.0 10.0	0.0	80 84	24.6 24.6	24.6	8.1 8.1	8.1	32.3 32.3	32.3	82.8 83.0	82.9	5.7 5.8		4.1 4.2	3.8	2	3	-	- 82	23626	823743	-	-	
					Bottom	18.9 18.9	0.0	46 49	24.5 24.5	24.5	8.1 8.1	8.1	32.8 32.8	32.8	84.0 84.0	84.0	5.8	5.8	4.4 4.5	F	3		-				-	-	
					Surface	1.0 1.0	-	-	25.8 25.8	25.8	8.1 8.1	8.1	27.2 27.3	27.3	88.7 88.5	88.6	6.2		3.0 3.2	L	5 4						-	-	
SR8	Cloudy	Calm	07:29	4.2	Middle	-			-	-	-	-	-		-	-	-	6.2	-	3.5	-	4		- 82	20401	811617		-	
					Bottom	3.2	-	-	25.7	25.7	8.1	8.1	27.7	27.8	87.1	86.9	6.1	6.1	3.9	Ŀ	3		-				-	-	
DA: Denth-Ave	L				Dollom	3.2	-	-	25.6	20.1	8.1	0.1	27.8	27.0	86.6	00.3	6.1	0.1	4.1		3		-				-		_

Water Quality Monitoring Results on during Mid-Ebb Tide 06 May 21 Turbidity(NTU) Suspended Solids Total Alkalinity DO Saturation Dissolved Chromium Salinity (ppt) Coordinate Coordinate Nickel (µg/L) Weather Sampling Water Water Temperature (°C) Monitoring Current Speed Oxvaen (mg/L) (maga) Sampling Depth (m) HK Grid HK Grid Station Direction Condition Time Depth (m) (m/s) Average Value Average Average Value Average Value DA Value DA Value DA Value DA (Northing) Value DA Value DA Condition Value Value (Easting) 25.7 2.5 1.0 2.5 106 25.6 2.4 4.4 41 2.2 107 25.1 8.1 32.1 99.8 6.9 4 89 <0.2 0.5 99.7 804269 C1 Fine Calm 10:28 8.1 32.2 815602 0.6 4.1 2.3 111 25.1 8.1 32.2 99.6 6.8 4.3 4 89 <0.2 0.7 7.2 2.4 113 25.1 8.1 32.2 99.2 6.8 7.9 7 89 <0.2 0.6 Bottom 8.1 32.2 99.2 6.8 7.2 2.4 119 25.1 8.1 32.2 99.2 6.8 8.0 7 90 <0.2 0.6 1.0 0.3 176 26.5 8.2 25.9 111.5 7.8 1.4 4 83 < 0.2 0.7 Surface 8.2 25.9 111.3 <0.2 1.0 0.3 189 26.5 8.2 25.9 7.7 1.4 3 83 0.8 5.8 0.2 180 25.7 25.7 8.1 96.3 6.7 1.8 2 86 86 <0.2 0.7 C2 Fine Moderate 12:05 11.5 Middle 8.1 27.4 96.2 825683 806945 5.8 8.1 6.7 2.0 0.2 184 27.4 96.0 0.7 10.5 0.2 176 25.3 8.1 3.3 2 88 29.4 84.2 5.9 <0.2 Bottom 8.1 29.4 84.2 5.9 0.6 5.9 10.5 0.2 189 25.3 8.1 29.4 84.2 3.4 88 <0.2 1.0 0.3 0.7 25.6 8.2 1.1 <2 83 28.4 6.8 < 0.2 Surface 8.2 28.4 97.6 1.0 97.5 6.8 1.1 <2 83 <0.2 0.3 51 25.6 8.2 28.4 6.5 1.5 0.6 0.6 0.7 8.2 2 <0.2 24.9 6.2 85 86 6.2 90 32.0 89.1 C3 Fine Moderate 09:40 12.4 Middle 8.2 32.0 89.1 86 822086 817785 0.7 24.9 89.0 0.3 8.2 2 <0.2 11.4 0.2 110 24.8 8.2 32.7 87.1 6.0 3.4 89 8.2 6.0 Bottom 24.8 32.7 87.2 11.4 0.2 119 24.8 8.2 32.7 87.2 6.0 3.3 3 89 <0.2 0.7 0.0 25.4 6.6 8.1 7.0 5 <0.2 0.6 Surface 25.4 8.1 29.7 98.6 1.0 0.0 238 25.4 8.1 29.8 96.2 6.7 6.5 6 85 <0.2 0.6 6.9 807140 IM1 Fine Calm 10:50 5.0 Middle 86 817966 0.6 4.0 0.0 128 25.5 8.1 29.6 96.2 6.7 7.5 4 89 <0.2 0.7 Bottom 25.5 8.1 29.5 96.4 6.7 4.0 0.0 137 25.5 8.1 29.5 6.7 7.5 0.6 2.4 303 25.5 8.1 29.8 7.0 7.0 4.0 2 86 <0.2 0.7 Surface 25.5 8.1 29.9 101.0 1.0 2.5 323 25.4 3.9 2 85 <0.2 0.7 0.5 0.5 3.3 2.5 305 25.3 5.6 5 <0.2 <0.2 <0.2 6.9 90 806184 IM2 Fine Calm 10:57 Middle 25.3 8.1 30.5 99.0 818160 3.3 331 25.3 5.6 4 90 91 2.6 5.6 2.6 306 25.3 8.1 30.6 99.1 6.8 6.6 5 Bottom 25.4 8.1 30.6 99.1 6.8 5.6 2.7 328 25.4 8.1 30.5 99 1 6.8 6.6 6 91 <0.2 0.5 0.6 1.0 2.1 346 25.5 8.1 29.6 7.2 3.2 5 87 <0.2 Surface 8.1 29.7 103.2 1.0 2.3 359 25.4 8.1 29.7 7.1 3.3 4 90 <0.2 0.6 0.7 0.7 0.7 3.5 2.5 350 25.3 8.1 30.4 6.7 5.4 3 90 <0.2 IM3 11:04 7.0 Middle 97.2 818778 805575 357 352 25.3 25.3 5.5 7.2 7.2 <0.2 3.5 2.7 30.5 4 91 2.6 4 91 6.0 8.1 30.7 97.5 6.7 27 97.8 3 8.1 30.6 87 <0.2 6.0 324 25.4 1.0 1.9 23 25.6 8.1 28.8 99.9 6.9 3.0 3 88 <0.2 0.8 Surface 8.1 28.8 99.8 90 1.0 8 1 99.7 3.0 4 <0.2 19 24 25.6 28.8 7.9 4.1 6.6 6.5 3 91 91 <0.2 0.6 1.9 25 25.2 8.1 30.7 94.7 IM4 Moderate 11:13 8.2 Middle 8.1 30.7 94.6 819731 804609 7.4 94.4 4.1 8.1 30.8 2.1 26 25.2 3 7.2 2.2 25 25.1 8.1 8.1 31.2 93.7 93.7 6.5 9.4 9.5 92 86 <0.2 0.5 8.1 Rottom 25.1 31.2 93.7 6.5 2.4 26 25.1 < 0.2 0.7 1.0 3.0 86 215 25.9 8.2 27.1 104.0 7.3 2.7 4 <0.2 Surface 25.9 8.2 27.1 103.9 1.0 8.2 103.8 7.3 3 <0.2 0.9 3.2 225 25.8 2.6 86 3.7 211 5.6 4 90 <0.2 0.6 3.2 25.5 8.2 7.0 28.8 100.1 IM5 11:23 7.4 25.5 8.1 29.0 100.0 820716 804846 Fine Moderate Middle 0.7 3.7 216 8.1 29.1 99.8 5.5 3 90 < 0.2 0.7 3.4 25.4 0.6 9.4 9.4 91 <0.2 6.4 3.0 209 221 25.2 25.2 8.1 30.6 94.0 94.1 5 8.1 94.1 6.5 6.5 Bottom 25.2 30.6 6.4 30.6 <0.2 0.6 0.6 0.7 0.7 1.0 2.9 227 25.8 8.1 27.1 7.1 2.9 4 86 <0.2 Surface 25.8 8.1 27.2 101.5 1.0 3.0 233 25.7 8.1 27.3 101. 7.1 2.9 5 89 <0.2 3.6 3.2 225 25.6 8.1 5.0 4 89 <0.2 28.2 11:33 7.2 Middle 25.6 8.1 28.2 99.9 89 821042 805828 IM6 Fine Moderate 3.6 3.4 240 25.5 8.1 28.2 99.9 7.0 5.0 5 89 <0.2 6.2 3.0 225 25.4 30.1 94.5 6.5 7.8 3 91 <0.2 0.7 Bottom 25.5 8.1 30.0 94.5 6.5 3.2 8.1 94.5 7.7 0.8 6.2 227 25.5 1.0 2.4 218 25.9 8.1 26.6 102.9 7.2 2.1 88 <0.2 0.8 Surface 25.9 8.1 26.6 102.9 1.0 2.5 227 25.9 8.1 26.7 102.8 7.2 2.1 5 88 <0.2 0.7 89 0.8 4.1 2.4 217 25.6 8.1 97.0 6.8 4.3 5 <0.2 28.1 IM7 Fine Moderate 11:42 8.2 Middle 25.6 8.1 28.2 96.8 821367 806825 4.1 2.5 234 25.6 8.1 28.2 96.6 6.7 4.2 4 90 <0.2 7.2 2.5 206 25.4 8.1 29.7 93.5 6.5 7.4 3 91 <0.2 0.6 Bottom 8.1 29.7 93.6 6.5 7.2 2.5 226 25.4 8.1 20.7 93.7 6.5 7.4 88 <0.2 0.6 1.0 0.1 144 26.0 8.2 27.4 99.7 6.9 2.0 82 < 0.2 0.5 27.4 Surface 99.7 0.5 1.0 0.1 145 26.0 8.2 27.4 99.7 6.9 2.0 2 82 <0.2 3.7 0.2 92 25.8 8.2 27.7 97.5 6.8 2.2 2 85 85 <0.2 0.6 IM8 Fine Moderate 11:36 7.3 Middle 8.2 27.7 97.4 85 821848 808125 3.7 0.2 96 25.8 8.2 27.7 97.3 6.8 2.3 < 0.2 6.3 0.2 45 25.5 8.2 29.0 91.2 6.3 3.8 3 87 < 0.2 0.6 8.2 Bottom 25.5 29.0 91.2 6.3

DA: Depth-Averaged

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

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

vater Qua		toring Res			06 May 21	during Mid-	Current	ie	T		T		Ι		I DO S	aturation	Disso	olved			Suspende	d Solids	Total A	Jkalinity			Chron	nium 1	
Monitoring	Weather	Sea	Sampling	Water	Sampling De	epth (m)	Speed	Current	Water Te	mperature (°C)		pН	Salii	nity (ppt)		(%)	Оху		Turbidity(NTU)	(mg		(pp		Coordinate HK Grid	Coordinate HK Grid	(µg		Nickel (µg/L
Station	Condition	Condition	Time	Depth (m)		-1- ()	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)	Value	DA	Value DA
					Surface	1.0	0.1	112 118	26.0	26.0	8.1 8.1	8.1	27.5	27.5	98.6 98.4	98.5	6.9	-	1.8	-	4		83	-			<0.2		0.7
	_					1.0 3.6	0.1	99	26.0 25.6		8.1		27.5 28.4	 -	94.0		6.5	6.7	1.8 2.5	}	3		83 85				<0.2		0.6
IM9	Fine	Moderate	11:30	7.2	Middle	3.6	0.1	102	25.6	25.6	8.1	8.1	28.4	28.4	93.8	93.9	6.5		2.7	2.6	3	3	85	85	822100	808834	<0.2	<0.2	0.6
					Bottom	6.2	0.1	74 75	25.5 25.5	25.5	8.1 8.1	8.1	29.0	29.0	90.8	90.9	6.3	6.3	3.5	-	3		88				<0.2		0.6
					Surface	1.0	0.3	94	25.9	25.9	8.2	8.2	27.6	27.6	97.7	97.6	6.8		1.8		3		83				<0.2	=	0.7
					Surace	1.0 4.2	0.3	96	25.9	23.9	8.2	0.2	27.6	27.0	97.5	97.0	6.8	6.6	1.9	-	2		84				<0.2	.	0.7
IM10	Fine	Moderate	11:21	8.3	Middle	4.2	0.3	87 93	25.5 25.5	25.5	8.2	8.2	29.0	29.0	90.7	90.8	6.3	l 1	2.4	2.5	2	2	86 86	86	822375	809772	<0.2	<0.2	0.7 0.8
					Bottom	7.3	0.2	101	25.4	25.4	8.2	8.2	29.3	29.3	88.8	88.9	6.2	6.2	3.2		<2		88				<0.2	, 1	0.8
						7.3	0.2	110 91	25.4 25.8		8.2		29.3	1	89.0 98.8		6.2		3.2 1.4		<2 2		88 83				<0.2	=	0.8
					Surface	1.0	0.4	96	25.8	25.8	8.2	8.2	28.0	28.0	98.9	98.9	6.9	6.8	1.4	į	2		83	İ			<0.2	.	0.6
IM11	Fine	Moderate	11:08	8.4	Middle	4.2	0.3	74	25.6	25.6	8.2	8.2	28.3	28.3	96.0	96.0	6.7	0.0	1.5	2.0	<2	2	85	86	822046	811450	<0.2	<0.2	0.6
						7.4	0.3	81 70	25.6 25.3		8.2 8.2		28.2 29.6		96.0 90.5		6.7		1.5 3.0	-	<2 <2		86 88	1			<0.2	: }	0.6
					Bottom	7.4	0.2	73	25.4	25.4	8.2	8.2	29.5	29.5	90.7	90.6	6.3	6.3	2.9	Ī	<2		88				<0.2		0.6
					Surface	1.0	0.3	85 91	25.9 25.9	25.9	8.1 8.1	8.1	27.5 27.5	27.5	93.7 93.6	93.7	6.5	_	1.9 1.9	-	3		82 82				<0.2	.	0.7
IM12	Fine.	Madamia	10:59	0.4	Middle	4.6	0.3	88	25.4	25.4	8.1	0.4	29.4	20.4	85.4	85.4	5.9	6.2	3.1	2.9	3	3	85	85	004450	04.0004	<0.2	<0.2	0.8
IIVI 12	Fine	Moderate	10.59	9.1	Middle	4.6	0.2	89	25.4	25.4	8.1	8.1	29.4	29.4	85.4	65.4	5.9		3.0	2.9	2		86	00	821450	812064	<0.2	<0.2	0.6
					Bottom	8.1 8.1	0.1	76 76	25.2 25.2	25.2	8.1	8.1	30.2	30.2	81.8 82.2	82.0	5.7	5.7	3.6 3.7	-	3		88	+			<0.2	:	0.6
					Surface	1.0	-	-	25.7	25.7	8.1	8.1	28.3	28.3	88.4	88.4	6.2		2.2		2		-				-	\equiv	-
					Odriace	1.0 2.5	-	-	25.7	25.7	8.1	0.1	28.3	20.0	88.4	00.4	6.1	6.2	2.2	-	2		-				-	.	-
SR1A	Fine	Calm	10:22	5.0	Middle	2.5	-		-	-		-	-	-	-	-	-		-	2.2		2	-	-	819979	812657	-	-	-
					Bottom	4.0	-	-	25.6	25.6	8.1	8.1	28.7	28.8	88.3	88.4	6.1	6.1	2.2	1	<2						-	, [-
						4.0 1.0	0.3	102	25.6 25.5		8.1		28.8	1	93.6		6.1		2.2 1.6		<2 <2		85				<0.2	\dashv	0.7
					Surface	1.0	0.3	109	25.5	25.5	8.2	8.2	29.0	29.0	93.5	93.6	6.5	6.5	1.6	į	<2		85				<0.2	.	0.7
SR2	Fine	Moderate	10:05	4.6	Middle	-	-	-	-	-	-	-	-		-	-	-	0.5	-	1.7	-	2	-	86	821444	814149	\vdash	<0.2	- 0.
					Bottom	3.6	0.3	113	25.3	25.3	8.2		29.8	29.8	91.1	91.1	6.3	0.0	1.8	ŀ	2		86	1			<0.2	. }	0.8
					Bottom	3.6	0.3	122	25.3	25.3	8.2	8.2	29.8	29.8	91.1	91.1	6.3	6.3	1.8		3		87				<0.2		0.8
					Surface	1.0	0.2	167 182	25.9 25.9	25.9	8.2	8.2	27.6 27.6	27.6	98.1 98.0	98.1	6.8	l	1.8 1.8	-	3		-	-			-	:	-
SR3	Fine	Moderate	11:43	8.8	Middle	4.4	0.3	154	25.5	25.5	8.2	8.2	29.0	29.0	89.9	89.9	6.3	6.6	2.8	2.7	4	3	-	1 .	822145	807590	-		-
OKO	1 1116	Woderate	11.45	0.0	Wildelie	4.4 7.8	0.4	162 180	25.5 25.4		8.2 8.2		29.0 29.7		89.9		6.3		2.9 3.5		2	J	-		022140	007330	-		-
					Bottom	7.8	0.1	180	25.4	25.4	8.2	8.2	29.6	29.7	89.3 89.5	89.4	6.2	6.2	3.4	ŀ	2		-	1			-	. }	-
					Surface	1.0	2.2	242	25.5	25.5	8.1	8.1	29.1	29.2	103.3	103.2	7.2		4.1		3		-				-		-
						1.0 4.8	2.4	264 245	25.5 25.4		8.1 8.1		29.3 29.8		103.1 97.1		7.2 6.7	7.0	4.2 5.7	.	5		-	1			+	. }	
SR4A	Fine	Calm	10:07	9.6	Middle	4.8	2.2	254	25.4	25.4	8.1	8.1	29.8	29.8	97.0	97.1	6.7		5.7	6.2	4	4		· ·	817200	807805	-	1	-
					Bottom	8.6 8.6	2.3	236 256	25.4 25.4	25.4	8.1 8.1	8.1	29.9	29.9	96.7 96.8	96.8	6.7	6.7	8.7 8.7	-	5 4		-				-	.	-
					Surface	1.0	0.0	151	25.9	25.9	8.1	8.1	27.4	27.5	98.4	98.2	6.9		4.0		8		-				-	=	
					Surace	1.0	0.0	159	25.8	23.9	8.1	0.1	27.5	21.5	98.0	30.2	6.8	6.9	4.0		7		-				-	, [-
SR5A	Fine	Calm	09:48	4.0	Middle	-	-		-	-	-	-	-	-	-	-	-	l 1	-	4.3		8	-	-	816606	810687	-	-	-
					Bottom	3.0	0.1	245	25.7	25.7	8.0	8.0	28.2	28.2	97.0	97.0	6.8	6.8	4.7	Į	7			1			-	,	-
						3.0 1.0	0.1	252 110	25.7 25.9		8.0 8.1		28.2		96.9	<u> </u>	6.7 7.3		4.7 2.7		8		<u> </u>				-	=	-
					Surface	1.0	0.1	119	25.9	25.9	8.1	8.1	26.5	26.4	103.7	103.6	7.3	7.3	2.6	ŀ	5		-				-	,	-
SR6A	Fine	Calm	09:20	4.2	Middle	-	-	-	-				-		-	-	-	7.3		2.8	-	4	-		817943	814755	-	[
						3.2	0.1	135	25.8		8.1		27.2	l	98.9		6.9		3.0	ŀ	4		-	+			-	. }	
					Bottom	3.2	0.1	138	25.8	25.8	8.1	8.1	27.2	27.2	99.0	99.0	6.9	6.9	3.0		3		-				-		-
					Surface	1.0	0.3	19 20	24.9 24.9	24.9	8.2	8.2	32.3	32.3	87.5 87.5	87.5	6.0	l F	1.5 1.5	Ţ	2		-				-	, 7	H-
SR7	Clouds	Moderate	00:45	16.6	Middle	8.3	0.3	47	24.9	24.9	8.2	8.2	32.4	32.4	86.9	86.9	6.0	6.0	1.6	1.8	2	2		1	823618	823737		,	-
JN/	Cloudy	Moderate	08:45	10.0	ivildate	8.3	0.4	50	24.9	24.9	8.2	0.2	32.4		86.9		6.0	Ш	1.6	1.0	2	_	-		023010	023/3/	-	,	
					Bottom	15.6 15.6	0.3	46 49	24.7	24.7	8.2	8.2	33.1	33.1	86.5 86.6	86.6	6.0	6.0	2.1	}	2		-				-		
					Surface	1.0	-	-	26.0	26.0	8.1	8.1	27.9	27.9	93.4	93.4	6.5		2.1		3		-					=	-
					Ounace	1.0	-	-	25.9	20.0	8.1	0.1	27.9	21.3	93.3	33.4	6.5	6.5	2.1	F	4		-				-	. [-
SR8	Fine	Moderate	10:51	4.9	Middle	-	1	-		-		-	-	-	-	-			-	2.6	-	3	-	-	820384	811626	-	- }	-
					Bottom	3.9	-	-	25.7	25.7	8.1	8.1	28.4	28.4	91.5	91.6	6.4	6.4	3.2	ļ	2		-	1			-	, 1	-
	1		1		_ 5	3.9	1 -	-	25.7		8.1	J	28.4	0	91.6		6.4		3.1		3		-				-		- 1

Water Quality Monitoring Results on 06 May 21 during Mid-Flood Tide DO Saturation Dissolved Suspended Solids Total Alkalinity Chromium Salinity (ppt) Turbidity(NTU) Coordinate Coordinate Nickel (µg/L) Weather Sampling Water Water Temperature (°C) Monitoring Current Speed Oxvaen (mg/L) (maga) Sampling Depth (m) HK Grid HK Grid Station Direction Condition Time Depth (m) (m/s) Average Average Value Average Value DA Value DA Value DA Value DA (Northing) Value DA Value DA Condition Value Value Average Value (Easting) 2.6 26.1 Surface 26.1 8.2 28.7 112.8 1.0 2.7 87 26.0 8.2 28.8 112.8 7.8 2.9 6 88 <0.2 0.7 2.7 25.4 3.0 5 0.8 106.8 92 <0.2 C1 8 1 31.1 106.6 804253 15:01 8.0 Middle 25.4 815635 Fine Calm 0.7 31.2 106.3 7.3 3.0 4 92 <0.2 1.0 4.0 2.8 88 25.3 8.1 9.2 7.0 2.5 85 25.2 8.1 31.9 98.1 6.7 4 93 <0.2 0.6 8.1 6.7 Bottom 25.2 31.9 98.0 97.9 6.7 0.5 7.0 2.7 88 25.2 8.1 31.9 5 93 < 0.2 1.0 0.1 1.5 83 0.6 0.6 0.6 4 < 0.2 8.2 26.2 Surface 26.1 8.2 26.2 105.0 1.5 26.1 8.2 3 83 1.0 0.1 225 215 26.3 104. <0.2 25.6 86 5.9 0.1 8.2 6.4 28.0 92.1 C2 Fine Moderate 13:51 11.8 Middle 25.6 8.2 28.0 92.1 86 825666 806949 0.6 28.0 92.1 6.4 2.1 3 86 <0.2 5.9 0.1 232 25.6 8.2 0.7 10.8 0.2 56 25.4 8.2 88.7 6.2 3.0 3 88 <0.2 29.1 8.2 88.8 6.2 Bottom 25.4 29.1 10.8 0.3 56 25.4 8.2 29.1 88.8 6.2 3.1 2 88 <0.2 0.7 0.2 242 25.9 8.2 1.1 <2 84 <0.2 0.6 Surface 25.9 8.2 29.3 109.4 1.0 0.2 251 25.8 8.2 29.4 109. 7.5 1.1 <2 84 <0.2 0.7 1.6 2 0.7 6.5 231 25.2 25.2 86 87 <0.2 0.2 8.2 31.8 94.7 6.5 C3 16:10 817801 Fine Moderate 12.9 Middle 25.2 8.2 31.8 94.8 87 822121 0.7 0.2 11.9 0.3 278 24.8 8.2 32.9 90.8 6.3 3.2 5 89 <0.2 0.7 Bottom 24.8 8.2 32.9 91.1 6.3 11.9 0.3 285 24.8 8.2 32 9 91.3 6.3 3.2 4 89 0.7 1.0 0.1 25.4 30.5 5.8 87 <0.2 0.7 Surface 25.4 8.1 30.5 98.9 1.0 0.1 23 25.4 8.1 30.6 98.7 6.8 5.8 5 88 <0.2 0.8 807152 IM1 Fine Calm 14:38 5.0 Middle 817938 4 0 0.1 34 25.4 8.1 30.5 97.0 6.7 6.6 90 < 0.2 0.6 Bottom 25.4 8.1 30.4 96.7 6.7 4.0 0.1 34 25.4 8.1 30.4 96.4 6.7 6.6 3 91 <0.2 0.7 45 1.0 2.4 25.7 8.2 30.1 106.1 7.3 3.1 87 < 0.2 0.9 Surface 8.2 30.2 106.1 1.0 2.5 46 25.6 8.2 30.2 106.0 7.3 3.1 3 87 <0.2 0.8 3.4 2.6 45 25.3 8.1 31.2 98.3 6.8 4.8 3 91 <0.2 0.8 IM2 Fine Calm 14:31 6.8 Middle 8.1 31.2 98.1 818154 806157 <0.2 0.8 0.9 0.8 3.4 2.6 46 25.2 8.1 31.3 97.9 6.7 4.9 92 25.2 3 5.8 24 49 8 1 31 4 97.2 6.7 8.7 92 <0.2 8.1 31.3 97.1 6.7 97.0 6.7 8.7 5.8 2.6 50 8 1 31.2 93 <0.2 25.3 1.0 2.6 237 25.8 8.2 29.8 105.6 7.3 2.8 89 <0.2 0.9 Surface 8.2 29.8 105.5 1.0 8.2 2.8 2 89 2.8 242 25.8 29.8 105.4 7.3 <0.2 4.6 2 92 <0.2 0.9 3.5 2.5 236 25.3 8.1 30.9 102. 7.0 IM3 Fine Calm 14:24 7.0 Middle 25.3 8.1 31.0 101.5 818806 805614 0.9 2.6 3 92 89 0.9 3.5 237 25.2 8.1 31.1 100. <0.2 6.0 6.0 238 25.2 8.1 31.6 97.8 6.7 6.7 Rottom 25.2 8.1 31.6 97.9 6.0 2.7 241 8.1 31.6 98.0 6.7 6.0 2 93 <0.2 0.9 25.2 0.9 1.0 2.1 188 25.8 8.2 29.5 108.4 7.5 2.3 3 88 <0.2 Surface 25.8 8.2 29.5 108.3 1.0 2.1 25.8 8.2 2.3 3 89 <0.2 183 5.7 <0.2 0.7 4.2 6.7 2 91 2.1 25.2 8.1 30.9 96.7 IM4 Fine Calm 14:14 8.4 Middle 25.2 8.1 30.9 96.7 819703 804604 4.2 7.4 2.2 1.7 196 25.2 25.1 8.1 96.6 6.7 5.8 91 <0.2 3 181 7.3 3 92 0.7 8.1 31.6 6.6 96.0 8.1 Bottom 25.2 31.6 96.0 6.6 7.4 1.8 183 25.2 31.5 6.6 7.4 93 <0.2 1.7 0.9 1.0 22 25.7 8.1 27.5 4.3 4 87 <0.2 104.7 7.3 Surface 25.7 8.1 27.6 104.3 1.0 22 25.6 27.6 103. 7.3 4.4 5 87 <0.2 3.9 2.0 7.4 3 91 <0.2 0.7 25 25.3 8.1 30.2 6.3 IM5 Fine Calm 14:06 7.8 Middle 25.3 8.1 30.2 90.9 820746 804853 3.9 2.1 25.3 7.3 91 <0.2 0.8 6.8 2.2 25.3 8.1 8.1 30.6 91.4 6.3 8.7 2 92 <0.2 Bottom 25.3 8.1 91.6 6.4 30.5 8.7 6.8 2.3 25.3 30.4 91.8 93 < 0.2 1.0 1.9 217 26.0 8.1 27.3 2.1 <2 87 <0.2 0.7 Surface 8.1 27.4 1.0 2.0 226 25.9 8 1 27.5 107 7.5 2.0 <2 88 <0.2 0.7 3.6 1.6 216 25.6 8.1 28.8 6.9 4.1 <2 90 <0.2 Fine Calm 13:59 7.2 Middle 25.6 8.1 29.0 98.6 821048 805822 <0.2 3.6 1.7 226 25.5 8.1 29.1 98.5 6.8 4.1 <2 90 6.4 6.6 0.9 6.2 2.1 219 25.5 8.1 29.4 92.6 <2 91 <0.2 92.7 6.2 21 239 25.5 8 1 29.4 -2 91 0.8 0.8 0.8 1.0 0.9 35 25.8 8.1 27.7 7.4 2.7 <2 87 <0.2 Surface 105.6 73 <2 <2 1.0 1.0 38 25.7 8 1 27 9 105 2.8 88 <0.2 4.0 4.2 8.1 90 <0.2 0.9 26 25.5 28.7 96.8 6.7 IM7 Calm 13:52 8.4 Middle 25.5 8.1 28.8 96.7 821355 806828 <2 90 4.2 0.9 26 25.5 8.1 29.0 96.6 6.7 3.9 7.4 0.9 56 25.4 8.1 29.6 92.2 6.4 5.7 <2 92 <0.2 0.9 Bottom 25.4 8.1 29.6 92.2 7.4 0.9 59 25.4 8.1 29.6 5.6 <2 <0.2 0.8 1.0 0.2 234 26.2 8.2 27.7 106.0 7.3 7.3 1.8 4 83 < 0.2 1.0 Surface 26.2 8.2 27.7 106.0 27.7 1.0 8.2 105. 1.0 0.2 240 26.2 1.8 4 83 < 0.2 8.2 28.3 7.0 2.5 2.5 3 85 85 <0.2 0.9 4.0 0.2 223 25.8 101. 25.8 8.2 28.3 101.3 821850 808154 IM8 Fine Moderate 14:17 8.0 Middle 85 0.9 7.0 4.0 239 8.2 4 0.2 25.8 7.0 3.9 4.0 88 0.8 0.1 260 25.5 8.2 29.2 90.9 6.3 <0.2 2 25.5 8.2 29.2 91.0 6.3 Rottom

DA: Depth-Average

Water Qua			ults on		06 May 21	during Mid-		de																			
Monitoring	Weather	Sea	Sampling	Water	0		Current Speed	Current	Water T	emperature (°C)		рН	Salir	ity (ppt)			Dissolved Oxygen	Turbidity	(NTU)	Suspende (mg		Total Alka (ppm)	. 000		Coordinate	Chromium (µg/L)	Nickel (µg/L)
Station	Condition	Condition	Time	Depth (m)	Sampling De	eptn (m)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value		alue DA	Value	DA	Value	DA			K Grid orthing)	HK Grid (Easting)	Value DA	Value DA
					Surface	1.0	0.3	297 318	26.2 26.2	26.2	8.2 8.2	8.2	28.0 28.0	28.0	99.8 99.9		i.9	2.1		<2 <2		83 83				<0.2 <0.2	0.8
IM9	Fine	Moderate	14:24	7.7	Middle	3.9	0.2	279 296	25.9 25.9	25.9	8.2	8.2	28.1	28.1	103.4	402.4	7.1	1.5	2.1	<2 <2	<2	85	85 82	22089	808832	<0.2	0.8
					Bottom	6.7	0.2	288	25.5	25.5	8.2	8.2	29.1	29.1	95.2	06.2	6.6	2.7		<2	İ	87				<0.2	0.8
					Surface	6.7 1.0	0.2	290 336	25.5 26.2	26.2	8.2 8.2	8.2	29.1 28.0	28.0	95.4 100.0	100.0	6.6 6.9	2.7		<2 <2		88 84				<0.2 <0.2	0.7
	_					1.0 4.1	0.2	346 320	26.2 25.9		8.2 8.2		28.0 28.3		100.0 99.4		6.9 6.9	2.1		<2 <2	_	84 85				<0.2	0.8
IM10	Fine	Moderate	14:32	8.1	Middle	4.1 7.1	0.2	334 292	25.9 25.5	25.9	8.2 8.2	8.2	28.3 29.1	28.3	99.5 97.9	99.5	6.9	2.0	1.9	<2 3	2	85 88	86 82	22393	809815	<0.2 <0.2 <0.2	0.8 0.9
					Bottom	7.1	0.2	315	25.6	25.6	8.2	8.2	29.1	29.1	97.9	31.5	6.8	1.6		2 <2		88				<0.2	0.9
					Surface	1.0	0.1	314 314	26.1 26.1	26.1	8.2	8.2	28.1	28.1	108.0 108.1	108.1	7.5 7.5 7.5	1.4		<2		84 84				<0.2	0.9
IM11	Fine	Moderate	14:46	8.2	Middle	4.1 4.1	0.1	293 301	25.8 25.8	25.8	8.2	8.2	28.4	28.4	107.9 107.8	107.9	7.5 7.5	1.3	1.3	<2 <2	2	85 86	86 82	22056	811452	<0.2 <0.2	0.8
					Bottom	7.2 7.2	0.1 0.1	311 319	25.5 25.5	25.5	8.3 8.3	8.3	29.4 29.4	29.4	101.9 102.1	102.0	7.1 7.1	1.4		3	Ī	88 88				<0.2 <0.2	0.7
					Surface	1.0	0.2	320 333	26.2 26.2	26.2	8.2 8.2	8.2	27.8	27.8	105.8	105 0 7	7.3	1.6		2		83				<0.2	0.7
IM12	Fine	Moderate	14:53	9.5	Middle	4.8	0.2	284	25.6	25.6	8.2	8.2	28.9	28.9	100.2	100.2	'.0 /.2	1.3	2.0	2	3	85	85 82	21478	812064	<0.2	0.8
					Bottom	4.8 8.5	0.2	311 299	25.6 25.3	25.3	8.2 8.2		28.9 30.2	30.1	100.2 94.0	04.2	7.0 6.5 6.5	1.3 3.0		3	İ	85 87				<0.2	0.8
						8.5 1.0	0.3	299	25.3 26.5		8.2	8.2	30.1 27.7		94.3 105.6		7.3	3.0 1.5		3		87				<0.2	0.6
					Surface	1.0 2.6	-	-	26.5	26.5	8.2	8.2	27.6	27.6	105.7	105.7	7.3	1.5		2	1	-				-	-
SR1A	Fine	Calm	15:28	5.1	Middle	2.6	-		-	-	-	-	-	-	-		-	-	1.5	-	3	-	- 81	19981	812654		-
					Bottom	4.1 4.1	-	-	26.4 26.4	26.4	8.2 8.2	8.2	27.9 27.9	27.9	107.7 107.9	107.6	7.4 7.4	1.5 1.5		3 2		-				-	-
					Surface	1.0	0.3	328 356	26.1 26.1	26.1	8.2 8.2	8.2	28.4 28.5	28.5	104.0 103.8		7.2	1.5 1.5	-	2		84 84				<0.2 <0.2	0.7
SR2	Fine	Moderate	15:46	4.8	Middle	-			-	-	-	-	-			-	- '.2	-	2.4	-	2	-	85 82	21449	814155	- <0.2	0.7
					Bottom	3.8	0.1	284 291	25.3 25.3	25.3	8.2	8.2	30.9	30.9	91.5 92.0		6.4	3.4		2	Ī	86 86				<0.2	0.8
					Surface	1.0	0.2	255	26.1	26.1	8.2	8.2	27.9 27.9	27.9	106.9	107.0	'.4	1.2		3		-				-	-
SR3	Fine	Moderate	14:10	9.3	Middle	1.0 4.7	0.2	258 254	26.1 25.9	25.9	8.2 8.2	8.2	27.9	27.9	107.0 105.1	4040 7	7.4	1.2	1.6	3	2		- 83	22161	807575	-	-
					Bottom	4.7 8.3	0.2	268 267	25.9 25.4	25.4	8.2 8.2	8.2	27.9 29.6	29.6	104.7 92.5	00.7	7.3 6.4 6.4	1.2 2.4		2	<u> </u>	-				-	
						8.3 1.0	0.2 1.7	274 52	25.4 25.6		8.2 8.1		29.6 29.7		92.8 105.8	- 6	7.3	2.3 3.0		2 <2		-				-	-
					Surface	1.0 4.2	1.9 1.9	53 54	25.5 25.4	25.6	8.1 8.1	8.1	29.9 30.4	29.8	105.3 97.2	105.6	7.0	3.1 5.5		<2 3	Ī	-				-	-
SR4A	Fine	Calm	15:21	8.4	Middle	4.2	2.0	56	25.4	25.4	8.1	8.1	30.5	30.5	96.8	97.0	5.7	5.5	5.5	3	3	-	- 81	17167	807818	-	-
					Bottom	7.4 7.4	2.0	45 49	25.4 25.4	25.4	8.1 8.1	8.1	30.5	30.5	96.6 96.6	90.0	6.7	8.0 8.0		3		-				-	-
					Surface	1.0	0.0	334 334	26.1 26.0	26.1	8.1 8.1	8.1	27.8	27.9	114.2 113.6		7.9 7.9 7.9	7.9 7.8		3	ł	-				-	-
SR5A	Fine	Calm	15:39	4.8	Middle	-	-	-	-	-	-	-	÷	-			- 7.9	-	8.7	-	3	-	- 81	16569	810687	-	
					Bottom	3.8	0.0	260 270	25.7 25.8	25.8	8.0	8.0	28.4	28.4	101.3 101.4	101.4	7.0 7.0	9.5 9.5		3	1	-				-	-
					Surface	1.0	0.1	210	26.1	26.1	8.1	8.1	28.4	28.4	112.3	112.1	'.7	3.8		2						-	
SR6A	Fine	Calm	16:08	4.6	Middle	1.0	0.1	217	26.1	-	8.1	_	28.4	-	111.8		7.7	3.8	4.6	3	2	-	- 8	17966	814740	-	-
O TO T	1 110	Odini	10.00	1.0	Bottom	3.6	0.1	253	25.7		8.0		28.8	20.0	101.9	101.9	- 7.1 7.1	5.4		- <2	-	-			011110	-	
						3.6 1.0	0.1	262 1	25.7 25.2	25.7	8.0	8.0	28.9 32.2	28.9	101.8 92.2	101.5	7.1	5.5 1.3		<2 <2		-				-	-
					Surface	1.0	0.1	1	25.2	25.2	8.2	8.2	32.2	32.2	92.2	92.2	6.3	1.3		<2	‡	-				-	-
SR7	Fine	Moderate	16:44	16.2	Middle	8.1 8.1	0.1 0.1	129 139	25.0 24.9	25.0	8.2 8.2	8.2	32.9 32.9	32.9	89.8 89.6	69.7	5.2	1.7	1.9	2	2	-	- 82	23659	823744	-	-
					Bottom	15.2 15.2	0.1 0.1	73 78	24.8 24.8	24.8	8.2	8.2	33.5 33.5	33.5	89.6 89.9	63.0 €	6.2	2.8		2		-				-	-
					Surface	1.0		-	26.8 26.7	26.8	8.2	8.2	27.9 27.9	27.9	102.5 102.5		'.0 '.0	2.6	. Ţ	2						-	-
SR8	Fine	Moderate	15:02	5.2	Middle	-	-	-	-	-	-	-	-	-	-		7.0	-	3.1	-	2	-	- 82	20380	811606		
					Bottom	4.2			25.6	25.6	8.2	8.2	28.7	28.7	95.2		6.6	3.6		2	1	-				-	-
DA: Denth-Ave	<u> </u>					4.2	-		25.6		8.2		28.7		95.6	6	6.6	3.4		2	1	-				-	1 -

Water Quality Monitoring Results on 08 May 21 during Mid-Ebb Tide Turbidity(NTU) Suspended Solids Total Alkalinity DO Saturation Dissolved Chromium Salinity (ppt) Coordinate Coordinate Nickel (µg/L) Weather Sampling Water Water Temperature (°C) Monitoring Current Speed Oxvaen (mg/L) (maga) Sampling Depth (m) HK Grid HK Grid Station Direction Condition Time Depth (m) (m/s) Average Value Average Average Value Average Value DA Value DA Value DA Value DA (Northing) Value DA Value DA Condition Value Value (Easting) 2.3 7.8 1.0 2.3 322 27.0 2.6 4.0 4 4.2 2.2 358 25.6 7.8 30.3 7.6 4 88 <0.2 1.0 110.8 804253 C1 Fine Moderate 11:50 7.8 30.3 815624 4.2 2.4 329 25.6 7.8 30.3 1111 7.6 4.1 3 88 <0.2 1.0 7.3 2.2 355 25.4 7.8 31.5 101.3 6.9 8.9 4 89 <0.2 1.2 Bottom 7.8 31.5 101.4 7.0 7.3 2.2 327 25.4 7.8 31.5 101.5 7.0 8.7 3 88 <0.2 1.1 1.0 0.6 175 27.0 8.1 20.4 114.1 8.1 3.2 86 < 0.2 1.9 Surface 8.1 20.4 114.1 <0.2 1.0 0.7 186 27.0 8.1 20.4 114.1 8.1 3.2 4 86 2.0 2.0 2.0 2.0 2.0 5.7 0.3 164 26.3 26.3 8.1 24.3 7.4 3.3 6 5 88 89 <0.2 C2 Sunny Moderate 13:17 11.4 Middle 8.1 24.3 105.4 825675 806950 0.3 167 8.1 7.4 24.3 105.4 10.4 111 8.0 3.7 5 0.2 26.0 26.6 98.2 6.9 91 < 0.2 Bottom 8.0 26.6 98.2 6.9 3.9 10.4 0.2 119 8.0 98.2 6.9 90 <0.2 26.0 26.6 1.0 0.5 114 26.2 8.1 4 84 1.4 26.5 8.8 < 0.2 Surface 26.2 8.1 26.5 126.3 2.7 5 5 4 1.4 1.0 118 84 <0.2 0.5 26.2 8.1 26.5 126. 8.8 8.5 1.3 257 259 3.3 <0.2 8.1 89 89 5.8 26.0 8.1 27.6 C3 Sunnv Moderate 10:44 11.5 Middle 8.1 27.6 116.3 88 822112 817816 1.3 26.0 0.2 <0.2 1.3 10.5 0.1 120 25.8 8.2 29.4 7.7 2.1 3 89 8.2 111.5 7.7 Bottom 25.8 29.4 10.5 0.1 130 25.8 8.2 29.5 7.7 2.2 4 90 <0.2 1.3 0.1 134 27.3 2.4 4 7.8 20.8 <0.2 1.6 145.1 10.2 Surface 27.3 7.8 20.8 145.0 1.0 0.1 143 27.3 7.8 20.8 144.8 10.2 2.5 3 87 <0.2 1.6 10.2 807139 IM1 Fine Moderate 12:11 4.7 Middle 817948 3.7 0.1 311 25.6 7.8 29.3 7.0 7.1 13.6 4 88 <0.2 1.5 Bottom 25.7 7.8 29.3 101.8 7.1 3.7 0.1 314 25.7 7.8 29.3 13.5 88 1.5 2.4 26.4 7.7 24.1 9.4 3.2 4 86 <0.2 1.6 1.6 Surface 26.5 7.7 24.0 133.2 1.0 2.5 26.5 9.4 3 85 <0.2 3.3 2.4 26.0 5.1 3 87 <0.2 <0.2 <0.2 1.4 806152 Fine Moderate 12:19 Middle 7.8 27.0 105.4 818156 3.3 5.2 4 2.5 26.0 5.5 2.4 10 25.5 7.8 7.0 8.4 5 89 1.4 Bottom 25.5 7.8 30.6 101.5 7.0 7.0 5.5 2.6 10 25.5 7.8 30.6 8.1 4 89 <0.2 14 1.0 2.5 354 26.7 7.7 21.7 138.2 9.8 2.8 4 86 <0.2 1.6 Surface 7.7 21.7 138.1 1.0 2.6 326 26.7 7.7 21.7 138.0 9.8 2.8 3 85 <0.2 1.5 1.5 1.5 3.4 2.7 356 26.1 7.7 26.4 7.0 10.3 5 88 <0.2 IM3 Moderate 12:27 6.7 Middle 7.7 99.7 818790 805589 <0.2 3.4 2.8 328 26.0 26.4 99.6 10.4 4 88 5.7 357 25.6 4 89 1.6 29 7.6 30.0 97.3 6.7 11.2 6.7 97.4 11.3 5 5.7 3.0 7.6 30.0 328 25.6 90 **∠**0.2 1.0 2.0 340 26.4 7.7 24.6 7.9 7.9 6.0 5 85 <0.2 1.4 Surface 7.7 24.6 112.4 7.7 1.0 6.0 4 86 2.0 353 26.4 24 6 < 0.2 3.9 2.0 346 9.8 9.8 4 88 89 1.4 26.2 7.7 25.5 7.8 <0.2 IM4 Moderate 12:37 7.8 Middle 7.7 111.7 819722 804597 7.8 3 2.1 356 25.4 3.9 26.2 17.6 17.1 3 1.4 6.8 2.1 352 26.2 26.5 26.5 106 7.4 89 <0.2 7.7 7.4 Rottom 26.2 26.5 106.7 6.8 324 26.2 89 < 0.2 1.6 1.0 2.2 339 7.7 3.9 85 26.7 23.3 130.8 9.2 9 <0.2 Surface 26.7 7.7 23.3 130.8 1.0 348 7.7 9.2 9 <0.2 1.6 2.3 26.7 130.7 4.1 85 3.7 2.4 342 4.7 7 88 <0.2 1.6 26.6 7.8 8.8 23.7 125.0 IM5 12:47 7.3 26.6 7.8 23.7 125.0 820713 804881 Fine Moderate Middle 3.7 356 7.8 23.7 124. 4.7 7 88 < 0.2 1.5 2.7 26.5 1.8 347 12.9 13.3 88 <0.2 6.3 2.4 26.2 26.3 7.8 25.6 25.6 7.6 7.6 4 7.8 108.6 108.6 7.6 Bottom 26.3 25.6 6.3 2.4 352 7.8 <0.2 1.7 1.0 2.1 354 26.6 7.7 8.3 5.0 5 86 <0.2 23.7 Surface 26.6 7.7 23.8 117.8 1.0 2.2 359 7.7 23.9 8.3 5.2 6 86 <0.2 26.5 3.5 1.9 26.3 7.8 7.6 7.2 8 87 <0.2 1.7 25.0 12:56 7.0 Middle 26.3 7.8 25.1 108.8 821078 805825 IM6 Fine Moderate 3.5 1.9 26.3 7.8 109. 7.6 7.5 9 87 <0.2 1.7 6.0 2.1 26.2 7.8 25.7 106.0 7.4 9.3 8 87 <0.2 1.6 Bottom 26.2 7.8 25.6 106.1 7.4 1.6 2.3 9.3 26.2 1.0 1.8 191 26.7 7.6 23.2 8.7 4.7 85 <0.2 1.6 Surface 26.7 7.6 23.3 123.5 1.0 1.9 194 26.7 7.6 23.3 123. 8.7 5.0 7 86 <0.2 1.7 1.8 4.0 2.1 182 26.3 7.7 24.9 7.8 7.5 8 88 <0.2 IM7 Fine Moderate 13:05 Middle 26.3 7.7 24.9 110.6 821366 806841 <0.2 4.0 2.3 192 26.3 7.7 24.9 7.8 7.9 7 87 7.0 2.4 180 26.2 7.6 25.2 7.2 10.7 6 90 <0.2 1.6 7.6 25.2 102.5 7.2 7.0 2.6 194 26.2 7.6 10.8 89 <0.2 1.5 1.0 0.1 132 27.1 8.2 21.0 9.4 2.4 84 < 0.2 1.7 21.0 133.0 Surface 1.8 1.0 0.1 133 27.1 8.2 21 1 132.8 9.4 2.4 4 84 <0.2 42 0.2 90 26.3 8.2 23.5 110.4 7.8 7.7 4.0 4 87 <0.2 2.0 1.9 IM8 Sunny Moderate 12:48 8.4 Middle 8.2 23.6 109.6 87 821810 808148 88 4.2 0.2 90 26.2 8.2 23.8 108.7 4.3 < 0.2 7.4 0.2 23 26.2 8.2 25.1 7.2 8.2 5 90 < 0.2 1.8 8.2 Bottom 26.2 25.1 102.3 7.2

DA: Depth-Averaged

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

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

Monitoring																												
	Weather	Sea	Sampling	Water			Speed	Current	Water T	emperature (°C)		pН	Salin	ty (ppt)		aturation	Disso Oxyg		Turbidity(f	NTU)	uspende (mg/		Total Alka		Coordinate	Coordinate	Chromium (µg/L)	Nickel (µg/L
Station	Condition	Condition	Time	Depth (m)	Sampling Dep	oth (m)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	" "	DA	HK Grid (Northing)	HK Grid (Easting)	Value DA	Value DA
				,	Contact	1.0	0.1	102	27.2	27.0	8.2		20.9	20.0	134.8		9.5		2.6		4		83				<0.2	1.8
					Surface	1.0	0.1	110	27.2	27.2	8.2	8.2	20.9	20.9	134.3	134.6	9.5	9.4	2.7		4		83				<0.2	1.7
IM9	Sunny	Moderate	12:42	7.7	Middle	3.9	0.1	99 107	27.0 27.0	27.0	8.2	8.2	21.1	21.1	132.0 131.7	131.9	9.3		2.8	4.0	5 6	5	86 87	86	822115	808797	<0.2 <0.2	1.6
					Bottom	6.7	0.1	76	26.1	26.2	8.2	8.2	24.9	24.9	100.7	100.8	7.1	7.1	6.7	t	6		90				<0.2	1.8
					Dottom	6.7	0.1	80	26.2	20.2	8.2	0.2	24.9	24.0	100.9	100.0	7.1	7.1	6.7		7		89				<0.2	1.9
					Surface	1.0	0.3	88 95	27.0 27.0	27.0	8.2	8.2	20.2	20.2	130.6 130.4	130.5	9.3		2.4	ŀ	5 4		82 81				<0.2	1.9
IM10	Sunny	Moderate	12:33	8.2	Middle	4.1	0.2	90	26.1	26.1	8.2	8.2	25.1	25.1	99.7	99.8	7.0	8.2	9.6	8.8	4	4	82	86	822391	809788	<0.2	1.9
				-		4.1 7.2	0.3	93 96	26.1 26.1		8.2 8.2		25.0 25.4		99.9 96.5		7.0 6.8		9.2 14.5	-	3		83 93				<0.2	2.0
					Bottom	7.2	0.2	102	26.1	26.1	8.2	8.2	25.4	25.4	96.5	96.5	6.8	6.8	14.5		4		93				<0.2	1.9
					Surface	1.0	0.4	86 89	26.6 26.5	26.6	8.2	8.2	21.7	21.7	122.6 121.5	122.1	8.7 8.7		4.4 4.8	-	4 5		82 82				<0.2 <0.2	1.9
IM11	C	Moderate	40.46	0.0	Middle	4.2	0.4	63	26.1	20.4	8.2	0.0	25.1	25.1	102.3	102.4	7.2	8.0	8.0	7.2	4		07	86	000046	811441	<0.2	1.7
IIVI I	Sunny	Woderate	12:16	8.3	ivildale	4.2	0.2	64	26.1	26.1	8.2	8.2	25.1	25.1	102.4	102.4	7.2		8.3	′.2	5	4	87	00	822046	011441	<0.2	1.7
					Bottom	7.3	0.2	84 91	26.1 26.1	26.1	8.2	8.2	25.8 25.8	25.8	99.5 100.0	99.8	7.0	7.0	9.0 8.9	-	3		90 89				<0.2	1.7
					Surface	1.0	0.5	95	27.1	27.1	8.2	8.2	21.1	21.1	130.1	130.0	9.2		2.7		4		85				<0.2	1.6
					Guilace	1.0 4.1	0.5	98 116	27.1	21.1	8.2 8.2	0.2	21.1		129.9 101.2		9.2 7.1	8.2	2.7 6.2	-	5		85 89				<0.2	2.0
IM12	Sunny	Moderate	12:06	8.1	Middle	4.1	0.4	127	26.2 26.1	26.2	8.2	8.2	25.1 25.2	25.2	100.7	101.0	7.1		6.2	5.2	4	4	90	89	821459	812053	<0.2	2.0 1.8
					Bottom	7.1	0.2	92	26.1	26.1	8.2	8.2	25.9	25.9	96.5	96.5	6.8	6.8	6.6	[4		91				<0.2	1.8
-						7.1	0.2	101	26.1 26.6		8.2 8.2		25.9 20.8		96.4 117.2		6.8 8.4		6.6 3.1		4		92	<u> </u>			<0.2	1.9
					Surface	1.0	-	-	26.6	26.6	8.2	8.2	20.8	20.8	117.1	117.2	8.4	8.4	3.0	Į	5		-				-	-
SR1A	Sunny	Moderate	11:30	5.5	Middle	2.8	-	-	-	-		-	+++	-	-	-	-	***	-	3.4		5	-	-	819976	812653		-
					Bottom	4.5	-	-	26.2	26.2	8.2	8.2	24.5	24.5	111.1	111.0	7.8	7.8	3.8	t	4		-				-	-
					Bottom	4.5 1.0	0.5	114	26.2 27.0	20.2	8.2 8.2	0.2	24.5 18.3	24.3	110.9		7.8 9.7	1.0	3.8 2.5	[5		- 85				<0.2	2.1
					Surface	1.0	0.5	115	27.0	27.0	8.2	8.2	18.2	18.2	134.5	134.3	9.7		2.6	ŀ	5		85				<0.2	2.0
SR2	Sunny	Moderate	11:13	4.7	Middle	-	-		-	-	-		-	-	-	-	-	9.7	-	3.6	-	5	-	86	821481	814179	- <0.2	- 22
					_	3.7	0.3	112	26.3		- 8.2		23.5		108.1		7.6		4.6	-	4		- 88				<0.2	2.4
					Bottom	3.7	0.3	119	26.3	26.3	8.2	8.2	23.7	23.6	108.1	108.1	7.6	7.6	4.7		5		87				<0.2	2.3
					Surface	1.0	0.2	155 166	27.2 27.2	27.2	8.1 8.1	8.1	21.3	21.3	135.2 134.7	135.0	9.5 9.5		2.8	H	5		-				-	-
SR3	Sunny	Moderate	12:55	8.9	Middle	4.5	0.3	147	26.3	26.3	8.2	8.2	23.7	23.7	113.6	113.6	8.0	8.8	4.0	6.7	5	4	-		822163	807589	-	
OKO	Outliny	Woderate	12.55	0.3		4.5 7.9	0.3	154 181	26.3 26.1		8.2 8.2		23.7 25.6		113.5 100.6		8.0		4.0 13.5	0.7	4	7	-		022103	007303	-	
					Bottom	7.9	0.1	185	26.1	26.1	8.2	8.2	25.6	25.6	100.6	100.7	7.1	7.1	13.4	H	4		-				-	-
					Surface	1.0	1.9	31	26.4	26.4	7.8	7.8	21.1	21.2	130.8	130.2	9.4		5.7		4		-				-	-
						1.0 4.5	2.0	32 29	26.3 25.8		7.8 7.8		21.2 28.5		129.5 101.7		9.3 7.1	8.2	6.3 8.4	-	5		-				-	-
SR4A	Fine	Moderate	11:29	8.9	Middle	4.5	2.1	30	25.8	25.8	7.8	7.8	28.5	28.5	102.0	101.9	7.1		8.4	7.7	4	5	-	-	817209	807832	- '	
					Bottom	7.9 7.9	2.3	32 34	25.7 25.7	25.7	7.8	7.8	29.4 29.4	29.4	98.4 98.5	98.5	6.8	6.8	8.4 8.8	-	6 5		-				-	-
					Surface	1.0	0.1	344	26.8	26.8	7.8	7.8	22.7	22.7	144.9	144.7	10.2		3.6		5		-				-	-
					Guilace	1.0	0.1	316	26.8	20.0	7.8	7.0	22.8	22.7	144.5	144.7	10.2	10.2	4.0	-	6		-				-	-
SR5A	Fine	Moderate	11:11	3.4	Middle	-	-		1	-	-	-	+	-	-	-	-			7.0	-	5	-	-	816584	810717	-	-
					Bottom	2.4	0.1	356	26.8	26.8	7.7	7.7	23.0	23.0	141.8	141.5	10.0	10.0	10.4	[4		-				-	-
						2.4	0.1	328 101	26.8		7.7		23.0		141.2 149.3		9.9 10.5		10.1 7.0		5		-				-	-
					Surface	1.0	0.1	104	26.6	26.7	7.7	7.7	23.3	23.2	148.6	149.0	10.5	10.5	7.7	Į	4		-				-	-
SR6A	Fine	Moderate	10:43	4.5	Middle	-	-		-	-		-	-	-	-	-	-		-	9.7		4	-	-	817958	814724		
					Bottom	3.5	0.0	159	26.3	26.4	7.7	7.7	25.8	25.7	120.5	120.8	8.4	8.4	12.2	t	3		-				-	-
					Bottom	3.5	0.0	174	26.4	20.4	7.7	1.1	25.7	25.1	121.0	120.0	8.4	0.4	11.9		4		-				-	-
					Surface	1.0	0.6	61 62	25.8 25.7	25.8	8.0	8.0	29.4 29.5	29.5	111.3	111.2	7.7	-,	3.0	ŀ	5 6		-				-	-
SR7	Sunny	Moderate	10:03	14.8	Middle	7.4	0.2	14	25.5	25.5	8.0	8.0	30.5	30.5	103.5	103.4	7.1	7.4	3.0	3.1	5	5	-	_	823651	823752		
-		-		-		7.4 13.8	0.2	14 55	25.5 25.5		8.0 8.1		30.6 30.9		103.3		7.1 6.9		3.1	-	6		-			· · · · -	-	
					Bottom	13.8	0.2	56	25.4	25.5	8.1	8.1	31.0	30.9	100.4	100.6	6.9	6.9	3.3		4						-	
		·			Surface	1.0		-	26.8 26.8	26.8	8.2	8.2	19.9 19.8	19.8	126.8 126.1	126.5	9.1		3.2	Ţ	5		H	T			-	
	Sunny	Moderate	11:57	4.7	Middle	-	-		-		-		- 15.0		- 120.1		-	9.1	-	5.0	-	4			820410	811603	-	-
SDO			11.57	4./	iviidale	1		-	T -	1 -	-	-	-	-	-	-	-		-	5.0	-	4	-	-	020410	011003		-
SR8	Outliny	Moderate				3.7	-	-	27.0		8.1		21.7		112.9		8.0		6.8	-	4			- 1			-	-

Water Quality Monitoring Results on 08 May 21 during Mid-Flood Tide DO Saturation Dissolved Suspended Solids Total Alkalinity Chromium Salinity (ppt) Turbidity(NTU) Coordinate Coordinate Nickel (µg/L) Weather Sampling Water Water Temperature (°C) Monitoring Current Speed Oxvaen (mg/L) (maga) Sampling Depth (m) HK Grid HK Grid Station Direction Condition Time Depth (m) (m/s) Average Average Value Average Value DA Value DA Value DA Value DA Value DA Value DA Condition Value Value Average Value (Northing) (Easting) 27.5 2.3 143 Surface 27.5 7.8 21.7 156.2 1.0 2.4 147 27.5 155.9 10.9 2.8 <0.2 1.4 2.8 144 26.7 4.6 87 1.4 23.1 5 <0.2 C1 7.8 23.7 128.6 804254 16:43 8.2 Middle 26.7 88 815609 Fine Rough 4.1 146 7.8 24.4 8.6 4.8 5 88 <0.2 1.5 2.9 26.6 7.2 2.6 146 25.8 7.8 29.4 105.0 7.2 12.9 5 89 <0.2 1.4 7.3 Bottom 25.8 7.8 294 105.1 12.9 2.7 159 7.8 29.4 1.4 7.2 25.8 90 < 0.2 4 1.0 0.3 350 26.9 3.3 85 1.9 2.1 1.9 1.8 < 0.2 8.1 Surface 26.9 8.1 19.7 116.8 8.1 8.4 3.4 5.3 85 1.0 0.3 353 26.8 19.8 <0.2 4 87 5.5 0.4 26.0 8.1 6.8 26.0 97.4 C2 Sunny Moderate 15:33 10.9 Middle 26.0 8.1 25.9 97.5 88 825666 806936 1.9 25.9 97.5 6.8 5.2 5 87 <0.2 5.5 0.4 28 26.0 8.1 9.9 0.4 346 26.0 8.1 6.7 6.5 5 91 <0.2 1.9 26.5 96.1 8.1 26.5 96.2 6.7 Bottom 26.0 9.9 0.4 350 26.0 8.1 26.5 96.2 6.5 6 90 <0.2 1.8 0.3 241 27.3 8.0 2.5 84 <0.2 1.9 Surface 27.3 8.0 22.4 158.7 1.0 0.3 246 27.3 8.0 22.4 158.4 2.4 6 84 <0.2 2.0 3.9 1.9 5.8 6.8 5 6 85 85 <0.2 0.4 252 271 25.5 8.0 30.4 98.4 C3 817804 Sunnv Moderate 17:49 11.5 Middle 25.5 8.0 30.4 98.4 86 822116 1.9 5.8 0.4 25.5 10.5 0.4 266 25.3 93.3 6.4 19.0 6 88 <0.2 1.8 Bottom 25.3 8.1 31.9 93.4 6.4 10.5 0.4 279 25.3 8.1 31.9 93.5 6.4 20.1 6 88 1.7 1.0 0.3 244 27.8 7.7 144.6 2.3 4 85 <0.2 1.2 Surface 27.8 7.7 21.1 142.9 1.0 0.3 258 27.8 7.7 21.1 141. 9.9 2.3 5 85 <0.2 1.0 807136 IM1 Fine Rough 16:19 4.3 Middle 817938 3.3 0.2 266 25.8 7.8 29.3 105.0 7.3 14.2 4 90 < 0.2 11 Bottom 7.8 29.3 105.8 7.4 3.3 0.3 268 25.8 7.8 29.3 106.6 7.4 13.9 3 91 <0.2 1.1 1.0 2.4 20 27.4 22.5 141.9 9.9 3.5 4 85 < 0.2 1.2 Surface 7.7 22.5 141.8 1.0 2.6 20 27.4 7.7 22.5 141.6 9.9 3.7 4 85 <0.2 1.1 4.7 3.3 2.7 25.9 7.7 26.4 133. 9.3 3 89 <0.2 1.1 IM2 Rough 16:12 6.5 Middle 7.7 26.4 132.1 818159 806180 6 3 2.8 <0.2 3.3 25.8 7.7 26.4 9.2 5.3 89 1.2 25.7 7.2 7.6 1.1 5.5 20 77 30.4 1047 90 <0.2 7.7 30.4 104.9 7.2 5.5 2.8 77 7.3 1.1 20 25.7 30.4 105 1 ٩n <0.2 1.0 19 195 26.8 77 23.7 135 (9.5 3.1 4 85 < 0.2 1.2 Surface 7.7 23.7 134.9 3.3 7.9 8.3 14.5 1.1 1.0 2.0 7.7 4 85 196 26.8 134 9.4 <0.2 1.2 1.9 199 7.0 4 87 <0.2 3.5 25.7 28.8 IM3 Fine Rough 16:05 7.0 Middle 25.7 7.7 28.8 102.0 88 818764 805594 4 5 6 2.0 7.1 88 <0.2 3.5 210 25.7 28.8 1.4 6.0 204 25.6 7.7 30.3 99.2 6.8 90 7.7 Rottom 25.6 30.3 99.3 6.8 6.0 2.1 220 7.7 30.4 99.4 6.8 14.4 91 1.5 25.6 <0.2 1.0 2.8 170 4.7 1.4 26.9 7.7 19.8 141.7 10.1 4 86 <0.2 Surface 26.8 7.7 19.8 140.5 1.0 3.0 182 26.7 139.2 4.9 3 87 <0.2 1.4 169 8.0 89 <0.2 1.5 3.9 5 2.9 26.2 24.9 7.4 IM4 Fine 15:56 7.7 Middle 26.2 7.7 24.9 105.4 819719 804585 Rough 3.9 176 8.3 4 89 <0.2 3.1 26.2 24.9 2.5 164 26.0 9.3 5 90 1.2 27.0 7.0 99.8 26.1 7.7 Bottom 26.9 99.9 7.0 6.7 2.7 167 26.1 7.7 26.9 8.8 <0.2 1.2 338 1.2 1.0 1.8 27.1 7.7 19.7 3.7 3 86 <0.2 146.3 10.4 Surface 27.1 7.7 19.7 145.9 1.0 1.9 355 27.1 7.7 19.7 145. 10.4 3.9 4 86 <0.2 3.7 2.1 338 26.7 6.8 3 89 <0.2 1.0 23.3 8.9 IM5 Fine 15:48 7.3 Middle 26.7 7.7 23.3 127.0 820738 804876 Rough 3.7 2.3 26.6 7.5 <0.2 3 1.1 6.3 2.0 347 26.4 24.7 7.8 10.5 10.7 90 <0.2 26.4 7.7 24.7 111.0 7.8 Bottom 7.7 6.3 2.0 319 26.4 91 < 0.2 1.0 1.3 27.2 7.7 20.6 141. 3.2 5 88 <0.2 1.2 Surface 7.7 20.6 141.4 1.0 1.3 27.2 77 141 10.0 3.4 5 87 <0.2 4.7 1.4 3.4 1.5 4 26.8 5 89 <0.2 Fine Rough 15:40 Middle 26.8 7.8 22.8 130.5 821038 805844 <0.2 3.4 1.5 4 26.8 7.8 22.8 130. 9.2 5.3 5 89 8.2 8.4 1.4 5.8 1.4 4 26.4 7.8 24.7 7.6 5 90 <0.2 7.8 107.8 5.8 15 26.4 7.8 24.7 4 90 1.3 1.0 0.3 258 26.8 7.7 21.4 9.9 41 6 85 <0.2 Surface 7.7 138.9 77 9.8 1.0 0.4 276 26.7 21 4 138 4.3 86 <0.2 7 5.4 1.2 3.9 249 7.7 89 <0.2 0.5 26.3 24.1 113.2 8.0 IM7 15:32 7.7 Middle 7.7 24.2 113.0 821348 806814 Rough 89 3.9 0.6 262 26.3 7.7 24.2 7.9 5.5 7 6.7 0.3 276 26.3 7.7 24.6 109. 9.8 7 90 <0.2 2.0 7.7 Bottom 26.3 24.6 109.3 7.7 6.7 0.3 302 26.3 24.6 9.6 <0.2 1.0 0.3 248 27.1 8.1 20.9 133. 9.5 3.3 5 82 < 0.2 2.2 Surface 27.1 8.1 20.9 133.8 20.9 9.5 27.1 8.1 <0.2 1.0 0.3 268 133. 3.4 6 82 240 27.1 8.1 21.1 9.1 3.4 5 <0.2 1.8 3.8 0.3 128.8 84 27.1 8.1 21.1 128.6 821806 808123 IM8 Sunny Moderate 16:01 7.6 Middle 84 1.9 9.1 3.4 84 3.8 259 27.1 8.1 21.1 128. 5 0.3 7.8 86 1.7 6.6 0.2 263 26.3 8.2 24.3 7.6 7.6 <0.2 107. 5 26.3 8.2 24.2 107.9 7.6 Rottom

DA: Depth-Averaged

Water Qua			ults on		08 May 21	during Mid-	Flood T	ide																			
Monitoring	Weather	Sea	Sampling	Water			Current Speed	Current	Water To	emperature (°C)		рН	Salir	nity (ppt)		aturation (%)	Dissolved Oxygen	Turbidity	r(NTU)	Suspende (mg		Total Alka (ppm	٠ . ا ر	Coordinate	Coordinate	Chromium (µg/L)	Nickel (µg/l
Station	Condition	Condition	Time	Depth (m)	Sampling De	epth (m)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	ì	alue DA	Value	DA	Value	DA			HK Grid (Northing)	HK Grid (Easting)	Value DA	Value DA
					Surface	1.0	0.1	321	27.2	27.2	8.1	8.1	20.6	20.6	136.1		9.6	3.0		4		82				<0.2	1.8
****	0		40.07		AC.18.	1.0 3.7	0.1 0.1	321 322	27.2 27.2		8.1 8.1		20.6		136.0 132.5		9.6 9.4	3.0	.	5	١.	83 84	0.5	000077	000044	<0.2	1.8
IM9	Sunny	Moderate	16:07	7.4	Middle	3.7 6.4	0.1 0.1	347 241	27.2 26.5	27.2	8.1 8.2	8.1	20.6		132.3 115.3		9.4 8.1	3.1 4.5	3.5	4	4	85 87	85	822077	808811	<0.2 <0.2 <0.2	2 1.9 1.9
					Bottom	6.4	0.1	260	26.5	26.5	8.2	8.2	23.1	23.1	114.9	115.1	8.1	4.5		5	1	87				<0.2	2.0
					Surface	1.0	0.2	337 339	27.2 27.2	27.2	8.1	8.1	20.5	20.5	135.6 135.1		9.6	2.9 3.0	-	4	1	84				<0.2	2.1
IM10	Sunny	Moderate	16:15	8.3	Middle	4.2	0.2	21	26.4	26.4	8.1	8.1	23.4		110.3	440.0	7.8	3.5	4.4	4	4	85	85	822406	809809	<0.2	2.1
	,				Bottom	4.2 7.3	0.2	22 355	26.4 26.3	26.3	8.1 8.1		23.4	24.5	110.1 94.4	04.5	7.8 6.7 6.7	3.5 6.6	1 1	4 5	ł	85 87				<0.2	2.2
					Bollom	7.3 1.0	0.2	327 340	26.3 27.3	20.3	8.1 8.2	8.1	24.5	1	94.5 142.4	94.5	6.7 0.0	6.5 2.9		4		87 82				<0.2 <0.2	1.8
					Surface	1.0	0.2	313	27.3	27.3	8.2	8.2	21.2	21.2	142.4	142.4	0.0	2.9	1	5	1	83				<0.2	1.8
IM11	Sunny	Moderate	16:26	7.7	Middle	3.9	0.3	308 318	26.3 26.3	26.3	8.2	8.2	24.3	24.3	107.5 107.4	107.5	7.6 7.6	4.4	6.1	5	5	84 85	85	822068	811471	<0.2 <0.2	2 2.1 1.9
					Bottom	6.7	0.4	258	25.9	25.9	8.2	8.2	26.8	26.8	91.7	01.0	6.4	11.1	1	5	1	87				<0.2	1.9
					Surface	6.7 1.0	0.4	274 313	25.9 27.4	27.4	8.3 8.1	8.1	26.8	20.9	92.0 151.0	150.0	0.6	10.8 2.9		6 4		86 82				<0.2 <0.2	1.8
						1.0 4.4	0.3	317 296	27.4 26.3		8.1		20.9	ļ	150.7 105.8	1	7.4 9.0	2.9 4.1	1 [4 6	1	82 84				<0.2	1.8
IM12	Sunny	Moderate	16:33	8.7	Middle	4.4	0.4	323	26.3	26.3	8.1	8.1	24.6	24.0	105.8	105.6	7.4	4.1	4.7	5	5	85	85	821464	812037	<0.2	1.8
					Bottom	7.7	0.4	290 293	25.6 25.6	25.6	8.1	8.1	27.2	28.2	88.7 88.7		6.2 6.2	6.9 7.2	1 1	5 6	1	87 88				<0.2	1.8
					Surface	1.0 1.0	-	-	27.4 27.4	27.4	8.0	8.0	21.4 21.4		161.9 161.0		1.4	3.1 3.1		5 4	1	-				-	-
SR1A	Sunny	Moderate	17:08	5.4	Middle	2.7	-		-	-	-		-		-		11.4	-	3.8	-	4	-		819973	812656	<u> </u>	-
•	,					2.7 4.4	-	-	27.0		8.1		24.2		141.7		9.9	4.6		4	1	-				-	-
					Bottom	4.4	- 0.2		27.0	27.0	8.1	8.1	24.1	24.1	142.0	141.9	9.9	4.5		4		-				-	-
					Surface	1.0	0.2	343 355	27.4 27.4	27.4	8.0	8.0	22.0 22.0	22.0	156.8 156.2		0.9	3.4	1 1	5 4	İ	82 82				<0.2 <0.2	1.7
SR2	Sunny	Moderate	17:24	5.0	Middle	-		-:	- :	-	-	-	-	-	-		- 11.0		5.5	-	5	-	83	821463	814158	- <0.2	2 - 1.8
					Bottom	4.0	0.0	270	26.1	26.1	8.1	8.1	27.9	27.9	104.4	105.1	7.2 7.3	7.6	1	5	1	83				<0.2	1.9
					Surface	4.0 1.0	0.0	290 267	26.1 27.2	27.2	8.1	8.1	27.9 20.8	20.8	105.7 134.7		9.5	7.5 3.1		5 4		- 84				<0.2	2.0
						1.0 4.2	0.2	277 209	27.2 26.5		8.1 8.1		20.8		134.5 116.0		9.5 8.2 8.9	3.0] [5 5	Ī	-				-	-
SR3	Sunny	Moderate	15:54	8.4	Middle	4.2	0.3	219	26.5	26.5	8.1	8.1	22.9	22.8	115.5	115.8	8.2	3.1	4.8	4	5	-	-	822133	807555	-	-
					Bottom	7.4	0.1	301 314	26.1 26.1	26.1	8.2	8.2	25.7 25.7		101.6 101.8	101.7	7.1 7.1	8.0 8.2	1	<u>6</u> 5	1	-				-	-
					Surface	1.0	1.9 2.1	40 40	27.8 27.8	27.8	7.8	7.8	22.5 22.5	22.5	169.4 168.6		1.8	4.7 5.0		10 10	-	-				-	-
SR4A	Fine	Moderate	17:04	8.8	Middle	4.4	2.3	44	26.5	26.5	7.8	7.8	24.5		125.3	125.0	8.8	5.7	6.1	6	7			817185	807798		-
•						4.4 7.8	2.3	47 50	26.4 25.7		7.8		24.6 29.0		124.6 98.0		8.8 6.8	6.0 7.5	1	5 5	1	-				-	- '
					Bottom	7.8	2.3	54	25.7 27.3	25.7	7.8	7.8	28.9		98.7	30.4	6.8	7.5		4		-				-	-
					Surface	1.0	0.2	279 306	27.3	27.3	7.8	7.8	23.8		165.9 165.4		1.5	3.8	i i	6 5	1	-					-
SR5A	Fine	Moderate	17:23	3.4	Middle	-	-	-	-	-	-	-	-	-	-		- 11.0	-	5.1	-	6	-	-	816580	810678		-
					Bottom	2.4	0.2	304	26.9	26.9	7.8	7.8	24.2	24.2	151.5		0.6	6.4	1	6	İ	-				-	-
					Surface	2.4 1.0	0.2	321 200	26.9 27.4	27.4	7.8	7.7	24.2 21.6	21.7	151.1 173.9	172.7	0.5	6.4 5.1		7 6		-					-
						1.0	0.0	206	27.4	27.4	7.7	1.1	21.8	21.7	173.4	1/3./	12.2	5.5	1 [6	I	-				-	-
SR6A	Fine	Moderate	18:08	4.2	Middle	-	Ė		Ė	-	Ė	-	Ė	-	Ė				5.6	-	6	-	-	817984	814731		-
					Bottom	3.2	0.1 0.1	205 218	27.4 27.4	27.4	7.7	7.7	22.0	22.0	165.9 165.5		1.6	5.9 5.9	+ +	6 5	1	-					-
					Surface	1.0	0.0	116	25.9	25.9	8.1 8.1	8.1	29.2	29.2	112.9		7.8	2.6		5		-					-
SR7	Cloudy	Moderate	18:25	14.6	Middle	1.0 7.3	0.0	126 184	25.9 25.6	25.6	8.0	8.0	29.2 30.6		112.8 104.2	404.0	7.8 7.2	2.5 3.2	3.3	6 4	5			823654	823757		-
0	Dioday	.nouo.utb	10.20	11.0		7.3 13.6	0.1	196 76	25.6 25.3		8.0		30.6 32.5	-	104.2 94.5		7.2 6.5	3.3 4.1	5.5	5 4	1	-			320.07	\vdash	-
					Bottom	13.6	0.1	77	25.3	25.3	8.0	8.0	32.5	32.5	94.6	34.0	6.5	4.1		5		-					-
					Surface	1.0	-	-	27.2 27.2	27.2	8.0	8.0	21.3	21.3	151.2 150.7		0.7	3.3	1 1	5 5	İ						-
SR8	Sunny	Moderate	16:42	4.1	Middle	-	-	-	-	-	-	-	-	-	-		- 10.7	-	8.6	- :	5	-	-	820374	811621		
					Bottom	3.1		-	27.4	27.4	8.2	8.2	21.9	21.8	141.8		9.9	13.6	‡	5	1						-
DA: Denth-Aver			1		Dolloni	3.1	-	-	27.4		8.2	L	21.8	1	142.1		0.0	13.9		5		-					

Water Quality Monitoring Results on 11 May 21 during Mid-Ebb Tide DO Saturation Dissolved Suspended Solids Total Alkalinity Chromium Salinity (ppt) Turbidity(NTU) Coordinate Coordinate Nickel (µg/L) Weather Sampling Water Water Temperature (°C) Monitoring Current Speed Oxvaen (mg/L) (maga) Sampling Depth (m) HK Grid HK Grid Station Direction Condition Time Depth (m) (m/s) Average Value Average Average Value Average Value DA Value DA Value DA Value DA (Northing) Value DA Value DA Condition Value Value (Easting) 2.6 1.0 2.7 320 27.5 7.4 2.8 3.2 44 26 349 26.0 8.1 26.4 7.1 2 91 <0.2 1.5 100.6 804247 C1 Fine Moderate 12:24 8.1 26.4 90 815623 1.3 4.4 2.8 321 26.0 8.1 26.5 99.5 7.0 3.4 2 91 <0.2 1.5 7.8 2.8 355 25.9 8.1 30.7 93.4 6.4 10.3 <2 92 <0.2 1.3 Bottom 8.1 30.7 93.7 6.4 7.8 2.9 327 25.9 8.1 30.6 94.0 6.4 10.1 <2 92 <0.2 1.5 1.0 0.6 179 27.3 8.2 23.0 96.0 5.3 84 < 0.2 1.5 Surface 8.2 23.0 96.0 <0.2 1.0 0.6 183 27.3 8.2 96.0 6.7 5.3 7 83 1.5 6.0 0.3 167 26.9 26.8 8.2 24.6 92.2 6.4 5.5 5.6 7 86 86 <0.2 1.4 C2 Fine Moderate 11:18 11.9 Middle 8.2 24.6 92.1 825680 806959 6.0 8.2 6.4 0.3 169 24.6 91.9 10.9 0.2 124 8.2 7.5 12 88 1.3 26.5 27.1 89.4 6.2 <0.2 Bottom 8.2 27.1 89.5 6.2 11 1.4 10.9 0.2 136 8.2 27 1 89.5 6.2 7.4 88 <0.2 26.5 1.0 2.5 27.2 8.2 85 99.5 6.9 < 0.2 1.5 Surface 27.2 8.2 25.2 99.5 3.7 1.5 1.0 357 99.4 6.9 7 86 <0.2 2.8 27.2 8.2 25.2 6.8 3.1 1.6 1.5 1.5 26.9 26.9 6.7 88 89 <0.2 2.6 3 5.5 341 8.2 26.1 97.5 C3 Fine Moderate 13:27 11.0 Middle 8.2 26.1 97.5 88 822099 817787 1.5 314 8.2 26.1 3 <0.2 10.0 2.8 358 26.2 8.3 29.2 91.6 6.3 4.4 91 8.3 6.3 Bottom 26.2 29.2 91.6 10.0 3.0 329 26.2 8.3 29.2 91.6 6.3 4.4 3 91 <0.2 1.4 0.2 168 27.4 2.4 <0.2 1.4 8.2 22.1 Surface 27.4 8.2 22.1 110.1 1.0 0.2 169 27.4 8.2 22.1 110.0 7.7 2.4 2 87 <0.2 1.4 807142 IM1 Fine Moderate 12:03 5.2 Middle 88 817950 4.2 0.1 221 27.3 8.2 7.3 7.3 3.8 <2 89 <0.2 1.3 Bottom 27.3 8.2 22.6 104.8 7.3 4.2 0.2 229 27.3 8.2 104 3.8 <2 88 1.3 1.9 27.2 8.2 22.9 7.5 7.5 3.5 2 86 <0.2 1.2 Surface 27.2 8.2 22.9 107.5 1.0 2.0 27.2 3.9 3 86 <0.2 3.5 2.3 26.8 7.1 2 91 <0.2 <0.2 <0.2 1.0 8.2 806145 Fine Moderate 11:55 Middle 8.2 24.2 96.0 818155 26.7 7.4 3 3.5 2.4 6.0 2.3 27 26.6 8.1 26.3 95.0 6.6 12.7 91 1.1 Bottom 26.6 8.1 26.3 95.0 6.6 1.0 6.0 2.5 27 26.6 8.1 26.3 95.0 6.6 12.9 4 92 <0.2 1.0 1.6 294 27.0 8.2 23.8 100.4 7.0 4.3 4 88 <0.2 1.2 Surface 8.1 23.9 100.2 1.0 1.7 318 26.9 8.1 99.9 7.0 4.7 5 88 <0.2 1.1 1.1 3.7 1.3 281 26.8 8.1 24.2 5.1 4 91 <0.2 IM3 Moderate 11:48 7.4 Middle 99.2 818760 805583 5.2 13.4 91 92 <0.2 3.7 1.3 303 26.7 5 6.4 314 26.5 4 1.2 14 8.1 27.2 94.9 6.5 95.1 13.6 3 6.4 14 8.1 27.2 92 <0.2 328 26.5 1.0 1.5 181 27.0 8.1 23.3 98.3 6.9 6.5 4 87 <0.2 1.3 Surface 27.0 8.1 23.3 98.3 1.0 27 N 8 1 98.3 4 88 <0.2 15 192 23.3 6.6 4.2 0.7 183 9.6 8.9 5 4 90 90 1.4 26.4 8.1 27.5 93.4 6.5 <0.2 IM4 Moderate 11:39 Middle 8.1 27.5 93.4 819742 804630 6.4 4.2 0.7 184 8.1 93.3 26.4 4 5 7.4 1.0 177 26.3 8.1 8.1 27.9 27.9 93.1 93.2 6.4 9.5 9.5 92 <0.2 1.3 6.4 Rottom 26.3 8.1 27.9 93.2 181 26.3 92 < 0.2 1.0 1.5 1.6 183 27.1 90 8.1 22.8 102.0 7.1 4.6 3 <0.2 Surface 27.1 8.1 22.8 102.0 1.0 1.7 188 27.1 8.1 22.8 7.2 4.7 <0.2 1.5 102.0 3 90 4.1 1.7 175 6.7 8.7 4 90 <0.2 1.4 26.6 8.1 25.3 96.0 IM5 11:32 8.2 26.6 8.1 25.3 95.8 820757 804871 Fine Moderate Middle 4.1 1.7 179 8.1 25.3 95.6 9.3 3 90 < 0.2 1.4 26.5 1.2 92 92 <0.2 7.2 1.4 180 8.1 27.3 95.4 95.6 6.6 11.9 4 26.4 8.1 95.5 6.6 Bottom 26.5 27.3 1.4 194 26.5 11.9 <0.2 344 87 1.5 1.5 1.0 1.9 27.1 8.1 21.6 7.3 7.3 6.0 3 <0.2 104.0 Surface 27.1 8.1 21.6 103.9 1.0 2.0 346 27.0 8.1 21.6 103. 6.5 2 87 <0.2 1.4 3.8 1.8 351 26.8 9.1 89 <0.2 24.7 96.3 11:24 7.6 Middle 26.8 8.1 24.7 96.2 821058 805826 IM6 Fine Moderate 3.8 1.9 353 26.8 8.1 24.7 96.1 6.7 9.6 2 90 <0.2 1.4 6.6 1.8 344 26.8 24.8 95.2 6.6 9.7 2 91 <0.2 1.4 Bottom 26.8 8.1 24.7 95.3 6.6 1.5 6.6 1.9 357 26.8 8.1 6.6 9.7 1.0 1.1 200 27.3 8.1 21.8 101.2 5.1 86 <0.2 1.4 Surface 27.3 8.1 21.8 101.0 1.0 1.1 219 27.3 8.1 21.9 100.8 7.1 5.3 <2 86 <0.2 1.5 89 1.5 3.9 1.0 200 27.1 99.6 7.0 7.5 2 <0.2 22.8 IM7 Fine Moderate 11:17 Middle 27.1 8.1 22.8 99.6 821335 806835 <0.2 3.9 1.0 208 27.1 8.1 99.6 7.0 7.7 89 6.8 0.9 199 27.0 8.1 99.7 7.0 8.9 2 91 <0.2 1.5 8.1 23.4 99.8 7.0 6.8 0.9 211 27.0 8 1 23.4 99.9 8.8 91 <0.2 1.5 1.0 24 290 27.4 8.2 22.1 96.2 6.7 4.5 4 85 < 0.2 1.2 Surface 22.1 96.2 1.3 1.0 2.5 295 27.4 8.2 22.1 96.1 6.7 4.5 5 84 <0.2 1.4 4 0 24 274 27.0 8.2 23.8 90.3 6.3 5.7 6 5 87 86 <0.2 IM8 Fine Moderate 11:42 7.9 Middle 27.0 8.2 23.8 90.3 87 821848 808160 1.3 5.6 4.0 2.6 277 26.9 8.2 23.9 90.3 6.3 < 0.2 6.9 2.5 281 26.9 8.2 24.3 90.6 6.3 7.0 5 89 <0.2 1.4 8.2 Bottom 26.9 24.3 90.6 6.3 286

DA: Depth-Averaged

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

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

Water Qua					11 May 21	during Mid-	Ebb Tide	•	_		T T		Ι.		DOS	aturation	Disso	olved	T		Suspende	ed Solids	Total All	calinity			Chromium	
Monitoring	Weather	Sea	Sampling	Water	Sampling Dep	oth (m)	Speed	Current	Water Te	emperature (°C)		pН	Salin	ity (ppt)		(%)	Oxy		Turbidity(NTU)	(mg/		(ppr		Coordinate HK Grid	Coordinate HK Grid	(μg/L)	Nickel (µg/L)
Station	Condition	Condition	Time	Depth (m)	Samping Del	()	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)	Value DA	Value DA
					Surface	1.0	2.8	200	27.4	27.4	8.2	8.2	22.3	22.3	96.3	96.3	6.7		4.7		5		84				<0.2	1.4
	_		l l			1.0 3.8	2.8	218 215	27.4 26.9		8.2 8.2		22.3 24.5		96.3 91.2		6.7	6.6	4.8 5.7		5	_	84 87				<0.2 <0.2	1.5
IM9	Fine	Moderate	11:48	7.6	Middle	3.8	2.8	215	26.9	26.9	8.2	8.2	24.5	24.5	91.1	91.2	6.4		5.9	5.9	5	5	87	87	822082	808821	<0.2	1.5
					Bottom	6.6	2.5 2.5	204 217	26.9 26.9	26.9	8.2 8.2	8.2	24.6	24.6	90.6	90.6	6.3	6.3	7.1 7.0		6 5		89 88				<0.2	1.4
					Surface	1.0	2.7	198	27.3	27.3	8.2	8.2	22.7	22.7	96.7	96.7	6.8		4.7		4		84				<0.2	1.5
					Surace	1.0 4.1	3.0	199 187	27.3 26.8	21.3	8.2	0.2	22.7	22.1	96.6		6.8	6.6	4.6 5.1		4		84 87				<0.2	1.5
IM10	Fine	Moderate	11:55	8.1	Middle	4.1	2.8 3.0	195	26.8	26.8	8.2 8.2	8.2	24.5	24.5	92.3 92.2	92.3	6.4		5.1	5.4	4 5	5	87	87	822401	809774	<0.2	2 1.5 1.5
					Bottom	7.1	2.7	190	26.8	26.8	8.2	8.2	24.6	24.6	91.8	91.8	6.4	6.4	6.2		6		89				<0.2	1.5
						7.1	2.7 3.1	190 77	26.8		8.3 8.2		24.6 21.5		91.8		7.0		6.6 2.7		5 6		89 83				<0.2	1.6
					Surface	1.0	3.2	78	27.7	27.7	8.2	8.2	21.5	21.5	100.6	100.7	7.0	6.9	2.8		5		84				<0.2	1.5
IM11	Fine	Moderate	12:08	9.0	Middle	4.5 4.5	2.8 3.1	78 80	27.2 27.2	27.2	8.2	8.2	23.5	23.5	96.7 96.7	96.7	6.7	0.5	3.0	3.6	5	5	87	87	822069	811453	<0.2	2 1.4 1.5
						4.5 8.0	3.1	81	27.2		8.2 8.3		23.5		94.5		6.6		5.0		4		87 89				<0.2	1.4
					Bottom	8.0	3.3	86	27.0	27.0	8.3	8.3	23.8	23.8	94.6	94.6	6.6	6.6	5.2		3		90				<0.2	1.5
					Surface	1.0	2.5	76 79	27.5 27.5	27.5	8.2	8.2	21.5	21.5	99.7 99.7	99.7	7.0		3.1		3		84 85				<0.2	1.5
IM12	Fine	Moderate	12:14	9.5	Middle	4.8	2.6	64	27.1	27.1	8.2	8.2	23.6	23.6	93.3	93.2	6.5	6.8	4.0	4.1	3	4	87	87	821442	812063	<0.2	1.5
IIVI I Z	rine	Woderate	12.14	9.5	ivildale	4.8	2.7	67	27.1	27.1	8.2	0.2	23.7	23.0	93.0	93.2	6.5		4.1	4.1	4	4	88	0/	021442	012003	<0.2	1.5
					Bottom	8.5 8.5	2.7	61 62	26.9 26.9	26.9	8.2	8.2	24.8	24.8	89.3 89.4	89.4	6.2	6.2	5.3 5.3		4		90				<0.2	1.6
					Surface	1.0	-		27.4	27.4	8.2	8.2	23.5	23.5	93.5	93.5	6.5		6.0		8		-				-	-
						1.0 2.6	-	-	27.4	2	8.2	0.2	23.6	20.0	93.5	00.0	6.5	6.5	6.1		8		-				-	-
SR1A	Fine	Moderate	12:51	5.2	Middle	2.6	-		-	-	-	-		-	-	-	-		-	6.3		7	-	-	819974	812661	-	-
					Bottom	4.2	-	-	27.1	27.2	8.2	8.2	24.4	24.4	93.4	93.4	6.5	6.5	6.6		6		-				-	-
						4.2 1.0	0.4	89	27.2		8.2		24.4		93.4		6.5 7.0		6.6 3.6		5 7		87				<0.2	1.4
					Surface	1.0	0.5	94	27.7	27.7	8.3	8.3	22.6	22.6	100.6	100.6	7.0	7.0	3.7		7		87				<0.2	1.5
SR2	Fine	Moderate	13:07	4.8	Middle	-	-	-	-	-	-	-	-	-	-	-	-	7.0	-	4.6	-	5	-	88	821440	814182	- <0.2	2 - 1.4
					Bottom	3.8	0.3	87	27.1	27.1	8.3	8.3	24.0	24.0	95.7	95.8	6.7	6.7	5.6		4		88				<0.2	1.4
					BOILOITI	3.8	0.4	90	27.1	27.1	8.3	0.3	24.0	24.0	95.8	90.0	6.7	0.7	5.5		3		89				<0.2	1.4
					Surface	1.0	2.1	243 263	27.6 27.6	27.6	8.2 8.2	8.2	21.9	21.9	97.1 97.1	97.1	6.8		3.6		7		-				-	-
SR3	Fine	Moderate	11:37	9.1	Middle	4.6	2.1	254	27.0	27.0	8.2	8.2	23.6	23.6	92.5	92.5	6.5	6.7	4.8	4.9	5	6	-		822153	807565	<u> </u>	
				***		4.6 8.1	2.1 1.9	276 239	27.0 26.9		8.2 8.3		23.6 24.6		92.4 91.3		6.5 6.4		4.8 6.4		6 4		-				-	-
					Bottom	8.1	2.0	254	26.9	26.9	8.3	8.3	24.6	24.6	91.4	91.4	6.4	6.4	6.3		5		-				-	-
					Surface	1.0	2.7	58 59	27.4 27.3	27.4	8.1 8.1	8.1	23.1	23.1	105.0 104.7	104.9	7.3		4.5 4.7		3		-				-	-
SR4A	Fi	Madassa	40.40	0.0	1 A	4.0	2.7	56	27.3	07.4	8.1	0.4	23.4	22.4	104.7	400.5	7.0	7.2	5.9		3		-		817212	007705	-	-
SR4A	Fine	Moderate	12:48	8.0	Middle	4.0	2.9	59	27.1	27.1	8.1	8.1	23.4	23.4	100.5	100.5	7.0		6.0	5.5	3	3	-	-	817212	807795	- '	
					Bottom	7.0	2.5 2.6	53 56	27.1 27.1	27.1	8.1 8.1	8.1	23.4	23.4	95.5 96.1	95.8	6.7	6.7	6.1 6.0		3 4		-				-	-
					Surface	1.0	0.1	332	28.0	28.0	8.2	8.1	23.0	23.0	108.3	108.2	7.5		4.2		4		-				-	-
						1.0	0.1	332	28.0	20.0	8.1	0.1	23.0	20.0	108.0	100.2	7.4	7.5	4.2		5		-				-	-
SR5A	Fine	Moderate	13:05	3.9	Middle	-	-	-	-	-	Ė	-	H	-	-	-	-		-	4.8	-	5	-	-	816614	810678	-	-
					Bottom	2.9	0.1	321	27.8	27.8	8.1	8.1	23.1	23.1	106.1	106.1	7.3	7.3	5.4		4		-				-	-
						2.9	0.1	337 34	27.8		8.1 8.1		23.1		106.0 104.6		7.3 7.3		5.5 9.6		5 4		-				-	+
					Surface	1.0	0.1	35	27.3	27.3	8.1	8.1	23.7	23.7	104.3	104.5	7.2	7.3	9.9		5		-				-	-
SR6A	Fine	Moderate	13:49	4.0	Middle	-	-	-	-	-	-	-	-		-	-	-	7.0	-	10.3	-	5	-	-	817948	814730		
					D-tt	3.0	0.1	42	27.2	07.0	8.1	0.4	23.9	22.0	94.4	04.4	6.6		10.9		5		-				-	-
					Bottom	3.0	0.1	42	27.2	27.2	8.1	8.1	23.9	23.9	94.4	94.4	6.6	6.6	10.9		5		-				-	-
					Surface	1.0	3.8 4.1	4	27.6 27.5	27.6	8.3	8.3	23.3	23.3	104.5	104.4	7.2		2.2		5 4		-				-	-
SR7	Fine	Moderate	13:57	15.6	Middle	7.8	3.7	1	27.1	27.1	8.3	8.3	25.4	25.4	100.3	100.3	6.9	7.1	3.1	3.0	5	4	-		823641	823764		-
OI(/	1 1110	Moderate	10.07	13.0	WILCOLD	7.8 14.6	3.9	1	27.1	21.1	8.3	0.5	25.4		100.3		6.9		3.1	3.0	4		-	-	323041	020704	<u> </u>	- '
					Bottom	14.6	3.7 3.9	10	27.0 27.0	27.0	8.3	8.3	25.8 25.8	25.8	99.7 99.7	99.7	6.9	6.9	3.7		3		-				-	-
					Surface	1.0	-	-	27.7	27.7	8.2	8.2	23.8	23.8	95.4	95.4	6.6		5.8		7		-				-	-
	_		l l			1.0	-		27.7		8.2		23.8		95.4		6.6	6.6	5.9		7	_	-				-	-
SR8	Fine	Moderate	12:23	5.1	Middle	-	-	-	-	-	-	-	-	-	-	-	-		-	6.6	-	5	-	-	820380	811611		-
					Bottom	4.1	-	- :	27.4 27.4	27.4	8.2 8.3	8.2	23.9	23.9	94.6 94.6	94.6	6.6	6.6	7.4 7.5		2		-				-	-
DA: Depth-Aver			1		L	4.1	- 1	-	21.4	l	0.3		23.9		94.6		0.0		1.5		3					l		

Water Quality Monitoring Results on 11 May 21 during Mid-Flood Tide Turbidity(NTU) Suspended Solids Total Alkalinity DO Saturation Dissolved Chromium Salinity (ppt) Coordinate Coordinate Nickel (µg/L) Weather Sampling Water Water Temperature (°C) Monitoring Current Speed Oxvaen (mg/L) (maga) Sampling Depth (m) HK Grid HK Grid Station Direction Condition Time Depth (m) (m/s) Average Value Average Average Value Average Value DA Value DA Value DA Value DA (Northing) Value DA Value DA Condition Value Value (Easting) 2.9 26.6 Surface 26.6 8.1 21.7 103.3 1.0 3.1 26.5 103.2 7.4 5.8 85 <0.2 1.4 3.1 25.7 6.4 9.6 3 88 1.4 <0.2 C1 8 1 31.2 93.4 804234 06:29 84 Middle 25.7 87 815629 Fine Moderate 31.3 93.3 6.4 9.7 2 88 <0.2 1.4 3.4 25.7 8.1 7.4 3.0 25.6 8.1 31.9 94.1 6.4 10.7 <2 88 <0.2 1.4 8.1 94.2 6.4 Bottom 25.6 31.9 6.4 7.4 3.0 94.3 10.1 1.4 25.6 8.1 31.9 <2 88 < 0.2 1.0 2.0 83 6.3 < 0.2 1.6 8.2 Surface 27.3 8.2 21.8 97.9 3 3 14 27.3 27.1 8.2 97.8 6.9 6.6 7.5 84 1.0 100 <0.2 6.3 2.1 1.6 8.2 6.7 86 22.8 95.1 C2 Fine Moderate 07:49 12.5 Middle 27.1 8.2 22.8 95.1 86 825691 806949 1.6 2.2 8.2 22.8 95.0 6.7 7.6 86 <0.2 6.3 92 27.1 11.5 2.0 90 26.2 8.2 87.9 6.1 9.9 14 87 <0.2 1.6 28.5 8.2 87.9 Bottom 26.2 28.5 11.5 2.1 92 26.2 8.2 28.5 87.9 10.0 11 87 <0.2 1.5 1.0 1.9 314 26.9 8.3 2.2 <0.2 1.7 Surface 26.9 8.3 24.7 99.3 2.2 2.8 2.9 1.0 2.1 330 26.9 8.3 24.8 99.2 6.9 2 85 <0.2 1.7 1.6 5.7 1.9 2 88 88 <0.2 322 26.2 8.2 29.2 94.0 6.5 C3 817802 Cloudy Moderate 05:29 11.3 Middle 26.2 8.2 29.2 93.9 88 822098 1.6 2.0 26.2 10.3 1.8 330 25.9 8.3 30.6 92.1 6.3 4.9 4 90 <0.2 1.5 Bottom 25.9 8.3 30.6 92.2 6.3 10.3 1.8 338 25.9 8.3 30.6 92 2 6.3 4.8 3 1.4 1.0 2.0 53 27.0 4.0 <2 86 <0.2 1.4 Surface 27.0 8.1 23.5 100.9 1.0 2.2 57 27.0 8.1 23.6 100. 7.0 4.0 <2 86 <0.2 1.4 807112 IM1 Fine Moderate 06:47 5.2 Middle 817965 4.2 24 54 27.0 8.1 23.9 100.0 7.0 4.3 87 < 0.2 14 Bottom 27.0 8.1 23.9 100.0 7.0 4.2 2.5 56 27 N 8.1 23.9 100.0 7.0 4.3 3 87 <0.2 1.3 1.0 1.8 160 3.7 27.0 8.2 7.2 4 85 < 0.2 1.4 Surface 8.2 22.2 101.9 1.0 1.8 171 27.0 8.2 22.3 101.7 7.2 3.8 4 86 <0.2 1.3 3.8 1.9 154 26.9 8.2 24.1 99.1 6.9 4.4 5 89 <0.2 1.4 IM2 Moderate 06:56 7.5 Middle 8.2 24.2 99.0 818161 806182 1.3 <0.2 3.8 2.0 169 26.9 8.2 24.2 98.8 6.9 4.4 6 90 1.4 19 26.9 6.8 6 5 1.2 6.5 163 8 1 24.6 97.2 44 90 <0.2 8.1 24.7 97.1 6.8 6.5 96.9 2.0 173 8 1 4.6 ٩n <0.2 26.8 247 1.0 17 254 27 N 8.2 23.2 7.2 3.9 4 86 < 0.2 1.6 Surface 8.2 23.2 102.7 3.9 5.9 6.1 1.5 1.0 86 1.8 269 27.0 8.2 7.2 4 <0.2 1.2 1.2 1.1 3.8 1.9 248 6.8 4 89 <0.2 26.8 8.2 24.5 96.9 IM3 Fine Moderate 07:02 7.6 Middle 26.8 8.2 24.6 96.8 88 818797 805589 4 2.0 6.7 89 90 3.8 266 26.8 8.2 24.6 96.7 <0.2 12.0 6.6 242 26.8 8.1 24.7 96.0 6.7 Rottom 8.1 24.8 96.1 6.7 6.6 1.8 243 8.1 24.8 96.2 6.7 13.2 4 90 <0.2 1.2 26.8 1.0 2.1 139 1.1 26.8 8.1 24.4 100.0 7.0 4.8 2 87 <0.2 Surface 26.8 8.1 24.4 99.8 1.0 2.3 26.8 5.2 3 88 <0.2 1.2 4.4 144 7.9 4 90 <0.2 1.1 6.7 2.0 26.7 8.1 25.4 97.0 IM4 Fine Moderate 07:12 8.7 Middle 26.7 8.1 25.4 97.0 819715 804626 26.7 4.4 2.1 147 8.1 8.0 4 90 91 <0.2 25.4 7.7 2.2 135 26.7 7.9 6 1.5 8.1 25.3 97.9 6.8 8.1 Bottom 26.7 25.3 98.0 6.8 7.7 2.4 141 26.7 6.8 7.7 85 <0.2 1.5 1.6 1.0 2.9 27.0 8.2 22.4 5.2 3 86 <0.2 7.2 Surface 27.0 8.1 22.4 102.9 1.0 3.2 27.0 102. 7.2 5.5 3 86 <0.2 4.3 2.9 26.8 8.6 3 90 <0.2 1.4 8.1 24.6 IM5 07:18 8.5 Middle 26.8 8.1 24.6 96.7 820732 804845 Fine Moderate 4.3 26.8 96.6 9.0 <0.2 3.2 3 1.5 2.9 26.8 8.1 8.1 24.9 98.0 6.8 10.6 10.5 91 <0.2 26.8 8.1 24.9 98.1 6.8 Bottom 7.5 3.0 17 26.8 24 9 98.2 91 < 0.2 1.0 2.2 17 27.3 8.2 19.8 3.0 5 89 <0.2 1.4 Surface 8.2 19.8 105.9 1.0 2.2 17 27.3 8.2 19.8 7.5 3.1 4 89 <0.2 1.2 4.1 2.5 21 27.1 3.8 4 89 <0.2 Fine Moderate 07:26 Middle 27.1 8.1 22.5 100.4 821057 805827 <0.2 4.1 2.7 21 27.1 8.1 22.6 100. 7.0 4.0 4 89 4.7 4.7 1.1 7.2 2.3 11 27.1 8.1 7.0 3 92 <0.2 99.7 7.0 72 23 11 27 1 8 1 4 92 1.2 1.0 2.4 168 27.2 8.1 20.1 104.2 6.3 5 87 <0.2 Surface 27.2 104.2 7 4 87 1.0 24 182 27 1 8 1 20 1 104 6.8 4 <0.2 4 1.6 1.5 3.9 2.4 163 8.1 11.2 89 <0.2 27.0 22.9 99.9 7.0 IM7 Moderate 07:34 7.8 Middle 27.0 8.1 99.9 821333 806847 4 89 3.9 2.5 172 27.0 8.1 22.9 99.8 7.0 11.4 6.8 2.7 164 27.0 8.1 22.9 99.4 7.0 14.8 4 91 <0.2 1.4 Bottom 27.0 8.1 22.9 99.4 7.0 6.8 2.9 168 27.0 8.1 14.8 4 91 <0.2 1.4 1.0 2.8 121 27.3 8.2 20.9 97.2 6.9 6.9 4.0 5 84 < 0.2 1.6 Surface 27.3 8.2 20.9 97.2 97.1 1.6 8.2 20.9 4.0 84 <0.2 1.0 3.0 126 27.3 6 27.0 8.2 22.7 94.3 6.6 5.0 6 86 <0.2 1.6 4.2 2.8 115 808149 27.0 8.2 22.6 94.3 821812 IM8 Fine Moderate 07:22 8.3 Middle 86 1.6 94.3 87 6.6 4.8 4.2 123 27.0 8.2 5 3.0 6.2 6.2 88 1.7 7.3 119 27.0 8.2 24.1 89.8 4 <0.2 2.8 6.3 27.0 8.2 24.1 89.9 6.3 Rottom

DA: Depth-Average

Water Quality Monitoring Results on 11 May 21 during Mid-Flood Tide DO Saturation Suspended Solids Total Alkalinity Chromium Salinity (ppt) Turbidity(NTU) Coordinate Coordinate Nickel (µg/L) Weather Sampling Water Water Temperature (°C) Monitoring Speed Current Oxvaen (mg/L) (ppm) Sampling Depth (m) HK Grid HK Grid Station Direction Time (m/s) Average Average Value Average Value DA Value DA Value DA Value DA Value DA Value DA Condition Condition Depth (m) Value Value Average Value (Northing) (Easting) 2.7 Surface 8.2 21.7 93.7 2.9 93.6 5.6 6.5 84 4 0 26 98 27.2 8.2 22.4 91.0 6.4 6 86 <0.2 1.5 07:15 808829 IM9 Fine Moderate 8.2 22.4 90.9 6.6 822081 4.0 2.8 99 27.2 8.2 22.4 90.8 6.4 6.5 7 86 <0.2 1.4 6.9 2.7 85 26.7 8.2 25.5 87.4 6.1 7.7 8 88 <0.2 1.5 Bottom 26.7 8.2 25.4 87.5 6.9 2.9 90 26.7 8.2 25.4 87.6 6.1 7.7 8 88 <0.2 1.5 1.0 1.5 65 27.3 8.2 21.1 95.7 4.1 4 84 < 0.2 1.4 Surface 8.2 21.1 95.6 1.0 1.6 68 27.3 8.2 95.4 6.7 4.2 5 89 <0.2 1.5 4.0 1.7 79 27.1 8.2 93.8 6.6 5.5 5.5 5 4 87 87 <0.2 1.2 IM10 Moderate 07:06 8.0 Middle 8.2 23.3 93.8 822397 809791 27.1 8.2 4.0 1.8 80 93.8 6.6 7.0 1.8 26.9 8.2 3 1.3 51 24.6 92.6 6.4 7.1 88 < 0.2 Bottom 8.2 24.6 92.7 7.0 6.4 7.0 1.2 19 52 8.2 92.7 89 26.9 24.6 **-**0 2 1.0 1.7 27.0 4.2 11 8.2 84 6.8 < 0.2 1.4 Surface 8.2 23.9 97.5 4.2 4.3 4.5 1.3 1.0 1.7 97.4 11 < 0.2 38 27.0 8.2 24.0 6.8 84 6.8 1.3 26.9 6.7 6 5 87 87 <0.2 4.4 8.2 24.1 96.1 96.1 IM11 Fine Moderate 06:54 8.7 Middle 8.2 24.2 96.1 86 822047 811439 26.8 4.4 1.9 8.2 24.2 7.7 5 <0.2 1.4 1.9 44 26.5 8.2 27.2 89.9 6.2 6.4 88 8.2 6.2 Bottom 26.5 27.2 89.8 7.7 1.9 46 26.5 8.2 27.1 89.6 6.2 6.8 4 88 <0.2 1.4 1.2 27.0 10 84 <0.2 1.6 8.2 24.9 96.2 Surface 27.0 8.2 24.9 96.2 1.0 1.3 86 27.0 8.2 24.9 96.1 4.9 4 84 <0.2 1.5 5.0 1.2 26.6 6.4 5.8 5.7 4 87 <0.2 1.5 8.2 26.1 92.3 812022 IM12 Fine Moderate 06:47 9.9 Middle 26.6 8.2 26.1 92.3 821452 5.0 6.4 8 87 <0.2 1.6 1.3 8.2 26.6 26.1 8.9 1.2 86 26.6 8.3 26.4 6.4 8.2 8 88 <0.2 1.5 91.8 26.6 8.3 26.4 91.9 6.4 Rottom 8.9 1.2 88 26.6 8.3 91.9 6.4 8.4 1.5 27.3 8.2 23.2 6.8 3.4 6 Surface 27.3 8.2 23.2 97.1 1.0 27.3 6.8 3.4 5 2.5 Fine Calm 06:10 Middle 819982 812657 2.5 3.9 27.2 8.2 96.3 6.7 6.0 4 Bottom 27.2 8.2 23.7 96.4 6.7 3.9 27.2 8.2 23 7 96.5 6.7 5.9 3 1.0 0.2 122 27.0 8.3 23.4 97.9 6.8 4.7 4 87 <0.2 1.4 Surface 27.0 8.3 23.4 97.8 1.0 0.2 132 27.0 8.3 97.7 6.8 5.1 4 86 < 0.2 1.5 6.8 SR2 Moderate 05:50 4.7 Middle 821461 814175 3.7 114 77 88 0.2 26.9 8.3 6.8 4 <0.2 1.5 Bottom 3.7 97.3 7.5 0.2 119 83 24 1 3 15 26.9 88 r0 2 1.0 2.6 347 27.3 8.2 20.3 96.7 6.8 3.6 3 Surface 27.3 8.2 20.3 96.6 8.2 96.4 1.0 27.3 3.6 27 319 20 4 4 5.5 5.4 4.7 2.7 6.6 5 5 355 27.1 8.2 21.7 93.7 SR3 Moderate 07:29 9.4 Middle 27.1 8.2 21.7 93.7 822150 807593 4.7 327 27.1 8.2 93.7 2.9 5 5 8.4 2.5 359 27.0 27.0 8.2 93.4 93.5 6.5 6.9 6.7 Bottom 27.0 8.2 23.2 93.5 6.5 8.4 2.7 332 1.0 1.5 312 27.0 8.2 23.1 103.1 7.2 4.6 3 Surface 27.0 8.2 23.1 103.0 1.0 8.2 7.2 1.5 335 27.0 102. 4.9 2 4.4 1.5 312 27.0 7.1 7.9 2 . 8.2 23.4 SR4A 06:05 8.2 23.4 101.1 817182 807789 Fine Moderate 8.7 Middle 27.0 4.4 1.7 319 27.0 8.2 7.9 3 7.7 7.0 13.4 13.6 1.9 312 333 27.0 27.0 8.1 <2 <2 8.1 23.6 100.5 7.0 Rottom 27 N 23.6 7.7 2.0 1.0 0.0 34 27.6 8.1 4.0 4 23.0 108.3 7.5 Surface 27.6 8.1 23.0 108.3 1.0 0.0 27.6 8.1 7.5 4.0 3 SR5A 05:46 3.7 Middle 816614 810692 Fine Moderate 2.7 0.0 27.5 23.0 7.5 4.0 4 Bottom 27.5 8.1 23.0 107.7 7.5 83 27.5 8.1 7.5 4.0 0.0 1.0 0.1 147 27.2 8.1 22.5 104.6 4.5 4 Surface 27.2 8.1 22.5 104.6 1.0 0.1 156 27.2 8.1 22.5 104.5 7.3 4.8 4 SR6A Fine Moderate 05:19 Middle 817980 814730 3.7 0.1 151 27.2 8.0 104. 7.3 5.2 3 Bottom 8.0 22.6 104.5 7.3 3.7 0.1 159 27.2 8.0 104 5.0 4 1.0 24 304 26.5 8.3 27.5 96.2 6.6 2.4 96.2 Surface 27.5 1.0 2.5 326 26.5 8.3 27.5 96.1 6.6 2.4 2 77 2.5 317 25.8 8.3 31.3 91.7 6.3 3.6 3.7 2 SR7 Cloudy Moderate 04:59 15.4 Middle 8.3 31.3 91.8 823627 823760 7.7 2.6 338 25.8 8.3 31.3 91.8 6.3 14.4 2.4 319 25.7 8.4 31.6 93.0 6.3 6.1 4 Bottom 8.4 31.6 93.0 6.3 14.4 2.6 339 25.7 8.4 31.6 93.0 6.3 5.9 4 1.0 27.0 8.2 24.7 95.5 6.6 6.2 11 Surface 27.0 8.2 24.7 95.4 95.3 12 1.0 27.0 8.2 24.7 6.6 6.3 . . 820411 811602 SR8 Fine Moderate 06:39 5.0 Middle -4.0 26.7 7.3 10 8.3 25.7 92.5 6.4 Bottom 26.8 8.3 25.7 92.6 6.4

DA: Depth-Averaged

Water Qual					13 May 21 during	Mid-Ebb Tid	е			ı		Ι.	1	DO S	aturation	Dissolved	T		Suspende	ed Solids	Total Alkalinity	T	T	Chromium	T
Monitoring	Weather	Sea	Sampling	Water	Sampling Depth (m)	Speed	Current	Water Te	emperature (°C)		pН	Salin	nity (ppt)		(%)	Oxygen	Turbidity	(NTU)	(mg		(ppm)	Coordinate HK Grid	Coordinate HK Grid	(µg/L)	Nickel (µg/L
Station	Condition	Condition	Time	Depth (m)		(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value		/alue DA		DA	Value	DA	Value DA	(Northing)	(Easting)	Value DA	
					Surface 1.0 1.0		188 191	28.3 28.3	28.3	8.3	8.3	23.3	23.3	111.4 111.2	111.3	7.6 7.6	3.7	1	3		89 90			<0.2	1.3
C1	Cloudy	Moderate	13:30	8.1	Middle 4.1 4.1	2.0	180 188	27.1 27.1	27.1	8.3 8.3	8.3	25.9 25.9	25.9	91.2	04.0	6.3 6.3	5.6 5.6	9.2	4	4	93 94 92	815623	804225	<0.2	1.4
					Bottom 7.1	2.0	183	26.2	26.2	8.2	8.2	29.9	29.9	91.2 84.7	040	5.8	18.1	i	4		94			<0.2	1.4
					7.1	2.2	199 87	26.2 27.8		8.2 8.1		29.9		84.9 87.5		5.8 5.6 6.1	18.1 3.4		5		94 88			<0.2 <0.2	1.4
, ,					Surface 1.0	1.7	94	27.8	27.8	8.1	8.1	21.9	21.8	87.1	87.3	6.1	3.4	1	3		88			<0.2	1.4
C2	Fine	Calm	12:16	12.0	Middle 6.0 6.0	1.7	98 105	27.4 27.3	27.4	8.1 8.1	8.1	22.6 22.6	22.6	85.4 85.1	05.3	6.0	6.7	5.7	3	3	91 91	825703	806950	<0.2	1.4
					Bottom 11.0		70 73	27.2 27.2	27.2	8.0	8.0	26.1 26.1	26.1	81.5 81.5		5.6 5.6	7.1	I	4		93 94			<0.2	1.2
					Surface 1.0	2.2	57	28.3	28.3	8.1	8.1	22.7	22.7	103.2	102.2	7.1	1.1		2		86			<0.2	1.2
СЗ	Fine	Calm	14:05	12.0	1.0 Middle 6.0	2.3 1.9	61 66	28.2 27.9	27.9	8.1 8.1	8.1	22.8	24.1	103.1 94.8	04.6	7.1 6.5	2.6	2.3	3	3	87 88 89	822091	817823	<0.2	1.2 2 1.3 1.3
CS	rile	Callii	14.05	12.0	6.0	2.0	66 61	27.9 27.7		8.1 8.1		24.2		94.4 93.7		6.5	2.7 3.2	2.3	3	3	93	822091	017023	<0.2	1.3
					11.0	2.1	66	27.7	27.7	8.1	8.1	24.8	24.8	93.8	93.6	6.4	3.2		3		93			<0.2	1.3
					Surface 1.0 1.0		134 145	28.4	28.4	8.2	8.2	22.2	22.2	113.4 113.3		7.8 7.8 7.8	3.3	+	5 4		86 87			<0.2	1.5
IM1	Cloudy	Moderate	13:09	5.1	Middle -	-		-	-	-		-				- 1.0	-	5.9	-	5	- 89	817962	807142	- <0.2	2 - 1.4
ı					Rottom 4.1	0.2	145	27.7	27.8	8.2	8.2	23.3	23.3	98.7	98.8	6.8	8.4		6		92			<0.2	1.3
					9 4.1 Surface 1.0	0.2 2.0	149 337	27.8 28.3	28.3	8.2 8.2	8.2	23.3		98.8 113.3	440.0	7.8	8.6 2.6		5		92 86			<0.2	1.4
, ,					1.0	2.1 2.1	310 338	28.3 27.6		8.2 8.2		22.3		113.1 94.5		7.8 6.5 7.2	2.6 4.0		2	Ī	90 00			<0.2	1.3
IM2	Cloudy	Moderate	13:01	7.0	Middle 3.5	2.2	352	27.6	27.6	8.2	8.2	23.7	23.7	94.5	94.5	6.5	4.0	4.9	2	3	91 89	818185	806155	<0.2	1.4
ı ļ					Bottom 6.0	1.9 2.0	345 350	27.3 27.3	27.3	8.2	8.2	25.3 25.3	25.3	87.9 87.8		6.1 6.1	8.3 8.2	ł	3 4		91 92			<0.2	1.3
					Surface 1.0 1.0	1.8	136 138	27.9 27.8	27.9	8.2 8.2	8.2	23.3	23.3	95.9 95.7	95.8	6.6	5.2		3		89 88			<0.2	1.2
IM3	Cloudy	Moderate	12:52	7.3	Middle 3.7	1.9	134	27.2	27.2	8.2	8.2	25.1	25.2	88.2	00.4	6.1	8.3	8.8	3	3	91 01	818776	805584	<0.2	1.3
	,				3.7	2.0 1.9	145 129	27.2 27.1		8.2 8.2		25.2 25.8		88.0 87.3		6.0	8.4 12.5		4		91 92			<0.2	1.3
					Bottom 6.3	2.1	138 184	27.1 27.6	27.1	8.2 8.2	8.2	25.8 23.9	25.8	87.4 90.4		6.0 6.2	13.0 7.3		3 9		92 87			<0.2	1.4
, ,					Surface 1.0	1.4	188	27.6	27.6	8.2	8.2	23.9	23.9	90.5	90.5	6.2	7.2		8		88			<0.2	1.2
IM4	Cloudy	Moderate	12:42	8.5	Middle 4.3 4.3		160 161	27.0 27.0	27.0	8.2	8.2	26.0 26.0	26.0	88.4 88.3	88.4	6.1	8.6 9.0	9.5	7	7	90 90	819703	804603	<0.2	2 1.3 1.3
ı					Bottom 7.5 7.5		177 187	26.7 26.7	26.7	8.2 8.2	8.2	27.3 27.3	27.3	85.3 85.4		5.9 5.9	12.7 12.4	İ	5 6	Ī	91 92			<0.2 <0.2	1.3
					Surface 1.0	1.0	181	27.8	27.8	8.2	8.2	22.7	22.5	98.6	986	6.8	4.7		<2		92			<0.2	1.3
					1.0	1.1 0.8	196 153	27.8 26.9		8.2 8.2		22.3 26.4		98.6 88.8		6.8 6.1	4.7 8.7		<2 <2	_	92			<0.2	1.2
IM5	Cloudy	Moderate	12:34	8.3	Middle 4.2 7.3	0.8 1.0	153 159	26.9 26.8	26.9	8.2 8.2	8.2	26.3	26.3	88.8 86.7	00.0	6.1	8.6	7.7	<2 <2	<2	93 93	820735	804886	<0.2 <0.2	2 1.2 1.2 1.2
					Bottom 7.3	1.0	164	26.8	26.8	8.2	8.2	27.0 27.0	27.0	86.8	00.0	6.0	9.7		<2		94			<0.2	1.3
					Surface 1.0 1.0	0.4	35 37	28.2	28.2	8.2	8.2	20.9	20.9	101.2		7.0	4.0		4 5		90			<0.2	1.1
IM6	Cloudy	Moderate	12:26	7.8	Middle 3.9	0.4	52	27.2	27.2	8.2	8.2	25.1 25.1	25.1	88.9	000	6.1 6.1	5.6	5.9	5	4	92	821074	805845	<0.2	2 1.2
ı ļ					3.9 Bottom 6.8	0.4	54 50	27.2	27.2	8.2 8.2	8.2	25.1	25.1	88.9 88.4	00.0	6.1	5.6 8.2	İ	4	İ	92			<0.2	1.1
					6.8	0.6 3.0	52 321	27.2 27.9		8.2 8.1	<u> </u>	25.1 21.5		88.7 96.2		6.1	8.2 4.9		3 7		93 88			<0.2	1.1
ı ļ					Surface 1.0	3.3	347	27.9	27.9	8.1	8.1	21.5	21.5	96.1	96.2	6.7	5.2	1	3		89			<0.2	1.1
IM7	Cloudy	Moderate	12:16	8.8	Middle 4.4 4.4	3.0	325 330	27.6 27.6	27.6	8.1 8.1	8.1	23.3	23.3	94.1 94.0	94.1	6.5	6.8 7.1	7.1	3	4	91 91	821366	806834	<0.2	2 1.2 1.1
					Bottom 7.8 7.8	3.1 3.2	326 327	27.4 27.4	27.4	8.1 8.1	8.1	24.4	24.4	89.9 89.9	89.9	6.2 6.2	9.4 9.3	1	4	Ī	93 94			<0.2	1.0
					Cfara 1.0	1.4	19	28.3	28.3	8.1	8.1	21.0	21.0	92.3	00.0	6.4	4.0		3		87			<0.2	1.3
13.40	-	0.1			1.0	1.5 1.5	20 12	28.2 27.8		8.1 8.1	-	21.1		92.1 84.0		6.4 5.8 6.1	4.0 7.8		2		86 89	00404-	00040-	<0.2	1.2
IM8	Fine	Calm	12:37	8.0	Middle 4.0	1.6	12	27.8	27.8	8.1	8.1	22.7	22.7	84.0 85.1	64.0	5.8	7.8	6.9	2 <2	2	91 90	821848	808125	<0.2 <0.2 <0.2	1.8
					Bottom 7.0	1.7	25 27	27.9	27.9	8.1	8.1	22.9	22.9	85.1 85.3		5.9 5.9	9.0	t	<2 <2	ł	93			<0.2	1.2

Water Quality Monitoring Results on during Mid-Ebb Tide 13 May 21 DO Saturation Suspended Solids Total Alkalinity Chromium Salinity (ppt) Turbidity(NTU) Coordinate Coordinate Nickel (µg/L) Weather Sampling Water Water Temperature (°C) Monitoring Speed Current Oxvaen (mg/L) (ppm) Sampling Depth (m) HK Grid HK Grid Station Direction Time (m/s) Average Value Average Value DA Value DA Value DA Value DA Value DA Value DA Condition Condition Depth (m) Value Average Value Average Value (Northing) (Easting) 1.9 Surface 8.1 21.2 90.5 2.0 27.8 90.0 4.0 7.0 3.7 2.0 34 27.7 8.1 23.0 82.7 5.7 3 89 <0.2 1.2 82.7 IM9 Fine Calm 12:42 7.4 8.1 23.0 6.5 90 822086 808806 3.7 2.0 34 27.7 8.1 23.0 82.7 5.7 6.9 4 91 <0.2 1.1 6.4 2.0 32 27.8 8.1 23.0 83.2 5.8 8.7 2 92 <0.2 1.2 Bottom 27.8 8.1 23.0 83.4 5.8 6.4 2.2 32 27.8 8.1 23.0 83.5 5.8 8.7 3 92 <0.2 1.2 1.0 1.9 43 27.9 8.1 22.3 92.1 6.4 2.7 87 < 0.2 1.3 Surface 8.1 22.4 91.8 1.0 2.0 44 27.8 8.1 22.4 91.4 6.3 2.8 8 87 <0.2 1.2 3.8 2.1 48 27.7 8.1 86.6 6.0 6.0 6 5 91 91 <0.2 1.1 IM10 Fine Calm 12:48 7.6 Middle 8.1 22.8 86.5 822362 809809 2.2 27.8 8.1 6.0 < 0.2 3.8 48 22.8 86.3 6.0 6.6 2.2 27.8 1.4 40 8.1 23.1 85.6 5.9 6.6 4 92 <0.2 Bottom 8.1 23.1 85.8 5.9 5.9 5 1.4 6.6 22 27.8 8.1 23.1 85.9 6.7 92 40 **-**0 2 1.9 28.0 1.0 2.6 1.4 8.1 6.5 Surface 8.1 21.9 93.0 1.3 1.0 6.4 2.7 7 87 1.9 46 27.9 8.1 92.5 < 0.2 6.2 4.6 6.0 1.3 27.9 27.9 90 92 <0.2 4.0 8.1 86.6 IM11 Fine Calm 13:00 8.0 Middle 8.1 22.3 86.6 90 822038 811454 1.3 4.0 86.5 6 2.1 58 8.1 <0.2 1.3 7.0 2.0 44 27.9 8.1 22.5 87.0 6.0 7.0 5 93 8.1 6.0 Bottom 27.9 22.4 87.2 7.0 2.2 46 27.9 8.1 22.4 87.3 6.0 7.0 5 91 <0.2 1.3 28.0 2.6 <0.2 4 1.4 20.4 93.8 6.6 Surface 28.0 8.1 20.4 93.3 1.0 2.3 59 28.0 8.1 20.5 92.8 6.5 2.6 5 86 <0.2 1.3 4.6 42 27.8 5.7 3.9 4 87 <0.2 1.3 2.3 8.1 23.2 81.8 812035 IM12 Fine Calm 13:05 9.2 Middle 27.8 8.1 23.2 81.7 821460 4.6 8.1 5.6 4.0 5 90 <0.2 1.4 44 27.8 2.4 8.2 27.8 8.1 81.7 5.6 4.4 4 92 <0.2 1.5 27.8 8.1 23.5 81.9 5.7 Rottom 8.2 2.3 49 27.8 8.1 82.1 5.7 4.3 1.5 28.2 8.1 20.9 95.5 6.6 5.1 4 Surface 28.2 8.1 21.0 95.3 1.0 28.1 6.6 5.0 5 2.1 Fine Calm 13:32 4.2 Middle 819974 812654 2.1 3.2 27.9 8.1 88.2 6.1 7.8 6 Bottom 27.9 8.1 23.1 88.2 6.1 3.2 27 9 8 1 23.2 88.2 6.1 7.8 5 1.0 0.5 31 28.3 8.1 21.6 94.6 6.5 4.2 4 90 <0.2 1.2 Surface 28.3 8.1 21.6 94.5 1.0 0.5 32 28.2 8.1 94.4 6.5 4.1 3 91 < 0.2 1.4 SR2 13:46 3.6 Middle 821474 814161 2.6 92 0.3 47 28 1 8.0 6.3 6.0 3 <0.2 1.3 6.3 Bottom 91.2 5.9 48 28 1 4 12 2.6 0.3 8.0 93 r0 2 1.0 13 33 28.2 8.1 20.6 91.7 6.4 2.1 4 Surface 8.1 20.5 92.1 8 1 92 4 2.0 3 1.0 14 33 28.2 20.5 4.5 3.4 3.4 3 1.3 38 27.6 8.1 23.2 81.9 5.7 SR3 Calm 12:32 Middle 27.6 8.1 23.2 81.9 822141 807593 5.7 4.5 1.3 40 8.1 81.9 27.6 3 8.0 1.5 27.6 27.6 8.1 8.1 82.0 5.7 6.9 6.9 Bottom 27.6 8.1 23.3 82.0 5.7 8.0 40 1.0 2.0 108 28.5 8.2 22.4 110.2 7.5 4.1 5 Surface 28.5 8.2 22.4 110.1 1.0 114 7.5 2.1 28.5 8.2 109.9 4.2 5 4.4 1.9 108 6.0 4 27.8 6.8 . 8.2 23.3 97.8 SR4A 13:56 8.2 23.3 97.7 817193 807792 Cloudy Calm 8.7 Middle 27.8 4.4 109 27.8 8.2 97.5 6.1 5 2.0 7.7 2.0 27.5 27.5 8.2 11.0 4 112 24.6 83.9 84.1 84.0 5.8 5.8 Rottom 27.5 8.2 24.6 112 8.2 24.6 10.9 1.0 0.1 325 28.6 8.2 7.3 4.8 5 22.8 107.0 28.6 8.2 22.8 107.0 Surface 1.0 0.1 336 8.2 22.8 7.3 4.8 6 28.6 SR5A 14:16 3.1 Middle 816587 810702 Cloudy Calm 2.1 0.1 312 28.3 22.9 100. 6.9 6.3 Bottom 28.3 8.2 22.9 100.7 6.9 0.1 334 28.3 6.9 6.5 2.1 1.0 0.0 325 28.2 8.1 23.1 5.5 Surface 28.2 8.1 23.0 103.0 1.0 0.0 332 28.2 8.1 102.9 7.1 5.5 5 SR6A Cloudy Calm 15:11 3.9 Middle 817979 814742 2.9 0.0 259 27.6 85.9 5.9 8.8 6 Bottom 8.1 23.9 86.0 5.9 2.9 0.0 281 27.6 8 1 2/1 1 86.0 9.0 5 1.0 0.9 189 27.9 8.1 22.8 102.1 7.1 3.0 8.1 101.9 Surface 22.8 1.0 1.0 191 27.9 8.1 22.8 1017 7.0 2.9 3 9.0 0.8 177 27.7 8.1 24.5 94.2 6.5 3.1 3 SR7 Fine Calm 14:31 18.0 Middle 8.1 24.5 94.2 823657 823761 9.0 0.8 178 27.7 8.1 24.5 94.1 6.5 3.1 4 17.0 0.9 198 27.6 8.1 24.8 93.6 6.4 4.8 3 Bottom 8.1 24.8 93.7 1.0 210 27.6 8.1 24.8 93.7 6.4 4.8 4 1.0 28.3 8.1 86.2 5.9 4.7 4 Surface 28.3 8.1 22.2 86.0 85.8 4.7 1.0 28.3 8.1 22.2 5.9 4 . . 811639 820392 SR8 Fine Calm 13:12 5.4 Middle -4.4 28.3 6.1 4 8.1 22.1 85.3 5.9 28.3 8.1 22.1 85.0 5.9

DA: Depth-Averaged

Water Quality Monitoring Results on 13 May 21 during Mid-Flood Tide Turbidity(NTU) Suspended Solids Total Alkalinity DO Saturation Chromium Salinity (ppt) Coordinate Coordinate Nickel (µg/L) Weather Sampling Water Water Temperature (°C) Monitoring Current Speed Oxvaen (mg/L) (maga) Sampling Depth (m) HK Grid HK Grid Station Direction Condition Time Depth (m) (m/s) Average Value Average Average Value Average Value DA Value DA Value DA Value DA (Northing) Value DA Value DA Condition Value Value (Easting) 27.5 0.8 Surface 27.5 8.1 23.0 98.9 1.0 0.9 211 27.5 22.9 98.9 6.9 3.7 85 <0.2 1.2 192 26.6 9.9 88 1.1 28.3 6.1 <0.2 C1 8 1 28.3 89.0 804230 07:40 89 Middle 26.6 87 815639 Cloudy Moderate 82 12 4.5 28.3 89.0 6.1 9.8 3 88 <0.2 1.2 0.7 201 26.6 8.1 7.9 0.9 194 26.5 8.1 29.0 87.7 6.0 11.1 3 89 <0.2 1.1 8.1 6.0 Bottom 26.5 29.0 87.8 6.0 1.2 7.9 87.9 11.2 <0.2 1.0 194 26.5 8.1 29.0 4 89 1.0 1.9 85 1.3 1.2 1.3 1.3 < 0.2 18.4 Surface 28.0 7.9 18.4 89.0 28.0 88.8 6.3 2.8 7.7 3 86 1.0 2.0 18.4 <0.2 89 6.0 28.0 7.9 87.9 6.1 21.1 C2 Fine Calm 08:53 12 0 Middle 28.0 7.9 21.2 87.9 89 825697 806947 2.3 21.2 87.9 6.1 7.7 3 89 <0.2 6.0 19 27.9 7.9 11.0 2.0 12 27.6 7.9 81.5 5.7 9.4 3 91 <0.2 1.3 22.9 27.6 7.9 81.4 5.7 Bottom 22.9 11.0 2.1 27.6 7.9 22.9 81.3 5.6 9.4 4 92 <0.2 1.3 1.4 311 27.7 7.8 1.7 83 <0.2 0.9 Surface 27.6 7.8 21.7 92.3 1.0 1.4 316 27.5 7.8 21.8 92.2 6.5 1.6 2 83 <0.2 0.8 4.2 0.9 6.0 1.2 347 7.8 3 86 86 <0.2 26.6 28.4 85.3 5.8 C3 817824 Fine Calm 06:58 12.0 Middle 26.6 7.8 28.4 85.2 86 822101 0.9 1.3 319 26.6 11.0 1.2 337 26.7 7.8 29.1 85.0 5.8 9.1 2 88 <0.2 0.8 Bottom 26.8 7.8 29.1 85.1 5.8 11.0 1.2 346 26.8 7.8 29.0 85.1 5.8 9.1 88 <0.2 0.9 1.0 2.4 271 27.9 3.7 84 <0.2 1.2 Surface 27.9 8.1 22.2 99.3 1.0 2.5 273 27.9 8.1 99.2 6.9 3.7 4 84 <0.2 1.2 807137 IM1 Cloudy Moderate 07:58 Middle 817942 47 2.5 270 27.5 8.1 24.4 91.5 6.3 71 4 88 < 0.2 13 Bottom 27.6 8.1 24.4 91.6 6.3 47 2.5 286 27.6 8.1 24.4 91.7 6.3 7.3 3 85 <0.2 1.4 1.0 355 85 0.2 27.7 8.2 22.6 94.8 6.6 4.7 3 < 0.2 1.3 Surface 8.2 22.6 94.8 1.0 0.2 336 27.7 8.2 22.6 94.8 6.6 4.9 4 84 <0.2 1.2 6.6 3.8 0.2 27.3 8.2 24.9 90.9 6.3 4 88 <0.2 1.2 IM2 Cloudy Moderate 08:07 7.6 Middle 8.2 24.8 90.9 818171 806165 1.3 6.7 <0.2 1.2 3.8 0.3 27.3 8.2 24.8 90.9 6.3 3 89 27.2 6.1 2 6.6 0.2 8.2 25.7 88.8 10.6 90 <0.2 8.2 25.6 88.9 10.6 1.3 6.6 0.2 13 27.2 8.2 25.6 88 9 ٩n <0.2 1.0 0.4 334 27 9 83 21 2 gg g 7.0 3.8 86 < 0.2 1.4 Surface 8.3 21.2 99.9 3.9 5.2 5.5 10.6 1.6 1.0 2 88 0.4 339 27.9 8.3 99.8 7.0 <0.2 21.2 1.4 1.5 1.4 3.8 0.3 341 2 89 <0.2 27.4 8.2 92.6 6.4 IM3 Cloudy Moderate 08:15 7.5 Middle 27.4 8.2 23.5 92.6 88 818807 805597 3 3 27.4 27.2 90 90 3.8 0.3 358 92.5 6.4 <0.2 6.5 0.2 355 8.2 25.6 88.6 6.1 Rottom 27.2 8.2 25.6 88.6 6.1 6.5 0.2 336 27.2 8.2 25.6 88.6 6.1 10.4 86 <0.2 1.3 1.0 0.6 330 27.8 3.7 1.3 8.3 20.9 102.3 7.2 <2 89 <0.2 Surface 27.8 8.3 20.9 102.3 0.6 8.3 4.2 <2 92 <0.2 1.3 3.9 348 7.5 <0.2 1.3 <2 92 0.5 27.2 8.3 25.3 91.5 6.3 IM4 Moderate 08:23 7.8 Middle 27.2 8.3 25.3 91.5 <2 819714 804607 Cloudy 3.9 0.5 339 27.2 27.1 8.3 91.5 6.3 7.9 <2 <2 92 93 <0.2 25.3 6.8 0.5 13.4 1.4 8.3 26.0 89.7 6.2 27.1 Bottom 8.3 26.0 89.8 6.2 6.8 0.5 321 27.1 8.3 26.0 89.9 6.2 13.7 <2 87 <0.2 1.4 1.5 1.0 0.7 13 27.9 8.2 3.3 2 87 <0.2 20.7 100.7 7.0 Surface 27.9 8.2 20.7 100.6 1.0 0.7 27.9 8.2 100.4 7.0 3.3 3 88 <0.2 13 3.4 0.7 27.3 6.2 3 91 <0.2 1.4 8.3 24.5 91.8 6.3 IM5 08:30 6.7 Middle 27.3 8.3 24.5 91.9 820714 804849 Cloudy Moderate 0.7 27.3 6.1 92 <0.2 3.4 11.1 4 1.4 0.6 27.2 8.3 8.3 89.9 6.2 92 <0.2 27.2 8.3 25.4 90.0 6.2 Bottom 5.7 0.6 27.2 90.0 87 < 0.2 1.0 0.1 359 27.9 8.2 19.9 3.7 4 87 <0.2 1.3 Surface 8.2 19.9 101.9 1.0 0.1 340 27.9 8.2 199 7.2 3.9 3 90 <0.2 1.4 3.6 0.3 43 27.6 94.4 6.6 6.7 4 90 <0.2 Cloudy Moderate 08:37 7.2 Middle 27.6 8.3 22.5 94.4 821073 805841 6.7 <0.2 3.6 0.3 44 27.6 8.3 22.5 94.4 6.6 4 90 12.7 12.8 1.4 6.2 0.3 59 27.5 8.3 6.2 4 92 <0.2 6.3 6.2 0.3 63 27.5 83 4 92 1.2 1.0 0.1 87 28.0 8.2 20.1 7.1 7.1 3.6 3 89 <0.2 Surface 100.9 3.7 4.0 1.0 0.1 92 28.0 82 20 1 100 4 89 <0.2 4 1.3 3.8 0.2 79 90 <0.2 27.8 8.3 20.7 97.3 6.8 IM7 Moderate 08:45 7.6 Middle 8.3 97.2 821365 806850 Cloudy 91 3.8 0.2 80 27.8 8.3 20.8 97.1 6.8 4.1 3 6.6 0.2 80 27.4 8.3 24.2 87.9 6.1 8.6 3 92 <0.2 1.3 Bottom 27.4 8.3 24.3 87.9 6.6 0.2 83 27.4 24.4 87.9 8.6 <0.2 1.3 1.0 2.2 50 28.1 7.9 19.9 92.3 6.5 6.5 3.6 4 86 < 0.2 1.4 Surface 28.1 7.9 19.9 92.3 92.3 1.3 19.9 1.0 2.3 52 28.1 7.9 3.5 4 86 < 0.2 27.9 7.9 21.4 85.2 5.9 6.6 4 91 <0.2 1.2 4.0 2.2 67 27.9 7.9 21.5 84.6 821818 808161 IM8 Fine Calm 08:31 8.0 Middle 90 1.3 84.0 6.7 7.9 5.8 4 91 4.0 71 27.9 2.3 7.0 7.9 7.9 92 1.3 2.4 52 28.0 21.7 83.7 5.8 9.3 4 <0.2 28.0 7.9 21.7 83.8 5.8 Rottom

Water Quality Monitoring Results on during Mid-Flood Tide 13 May 21 DO Saturation Suspended Solids Total Alkalinity Chromium Salinity (ppt) Turbidity(NTU) Coordinate Coordinate Nickel (µg/L) Weather Sampling Water Water Temperature (°C) Monitoring Speed Current Oxvaen (mg/L) (ppm) Sampling Depth (m) HK Grid HK Grid Station Direction Time (m/s) Average Average Value Average Value DA Value DA Value DA Value DA (Northing) Value DA Value DA Condition Condition Depth (m) Value Value Average Value (Easting) Surface 7.9 19.4 92.5 1.7 28.1 19.5 92.3 2.6 3.9 1.6 3.7 1.8 54 27 9 7.9 22.2 83.9 5.8 7 89 <0.2 83.9 808807 IM9 Fine Calm 08:25 7.4 7.9 22.2 822072 3.7 2.0 57 27.9 7.9 22.2 83.8 5.8 3.9 6 90 <0.2 1.7 6.4 2.1 53 28.0 7.9 22.4 83.7 5.8 6.6 5 90 <0.2 1.5 Bottom 7.9 22.3 83.8 5.8 6.4 2.3 57 28.0 7.9 22.3 83.8 5.8 6.5 4 90 <0.2 1.5 1.0 1.5 27.8 7.9 21.4 91.2 6.4 5.2 83 < 0.2 1.4 Surface 7.9 21.4 91.1 <0.2 1.0 1.5 27.7 7.9 21.4 91.0 6.4 5.2 5 83 1.4 6.2 3.8 1.5 27.7 7.9 86.4 6.0 7.6 7.6 5 5 87 87 <0.2 1.4 IM10 Fine Calm 08:17 7.6 Middle 7.9 23.4 86.3 822361 809778 3.8 27.6 1.6 7.9 23.4 86.1 6.0 6.6 1.5 27.7 8.4 5 1.3 7.9 23.8 85.0 5.9 90 < 0.2 Bottom 27.7 7.9 23.8 85.1 5.9 5.9 6 1.4 6.6 1.6 27.7 79 23.8 85.1 8.3 90 **-**0 2 1.1 27.7 1.0 3.2 84 1.4 7.9 89.6 6.2 < 0.2 Surface 27.7 7.9 22.8 89.6 1.5 1.0 3.1 < 0.2 1.2 24 27.6 7.9 22.9 89.5 6.2 6 84 6.2 4.9 1.7 27.4 27.3 5 6 6.2 86 85 <0.2 4.0 88.9 IM11 Fine Calm 08:08 8.0 Middle 7.9 23.0 88.4 85 822075 811450 4.0 87.8 1.1 34 7.9 <0.2 1.4 7.0 1.1 23 27.3 7.9 25.0 83.6 5.8 7.4 5 87 5.8 Bottom 27.3 7.9 25.0 83.6 7.0 1.2 23 27.3 7.9 25.0 83.6 5.8 7.4 6 86 <0.2 1.4 0.5 27.5 3.3 84 <0.2 86.0 0.9 Surface 27.5 7.9 23.8 86.0 1.0 0.5 12 27.5 7.9 23.8 85.9 5.9 3.4 6 85 <0.2 0.9 5.9 4.6 0.5 14 27.3 7.9 84.5 5.8 7.3 6 85 <0.2 1.5 24.9 812067 IM12 Fine Calm 08:02 9.2 Middle 27.3 7.9 24.9 84.5 821473 4.6 27.3 7.9 84.4 5.8 7.3 85 <0.2 0.5 14 8.2 0.5 27.3 7.9 84.3 5.8 9.7 8 88 <0.2 1.4 27 4 7.9 25.3 84.3 5.8 Rottom 8.2 0.5 20 27.4 7.9 84 3 5.8 9.7 1.4 28.0 7.9 20.8 87.5 3.5 4 6.1 Surface 28.0 7.9 87.4 20.8 1.0 28.0 87.3 6.1 3.4 4 2.1 Fine Calm 07:33 Middle 819972 812662 2.1 3.2 28.0 7.9 22.0 87.5 6.1 4.3 3 Bottom 28.0 7.9 22.1 87.7 6.1 3.2 28.0 79 22 1 87.9 6.1 4.3 3 86.9 87.0 1.0 0.3 116 27.6 7.9 23.2 6.0 6.0 4 85 <0.2 0.9 Surface 27.6 7.9 23.1 87.0 1.0 0.3 117 27.6 7.9 6.0 6.1 3 84 < 0.2 0.9 SR2 07:18 3.6 Middle 821465 814182 2.6 10.0 86 0.2 87 27.6 79 6.1 4 <0.2 0.9 6.1 Bottom 88.3 10.0 2.6 92 27.6 79 23.0 3 87 0.9 0.2 r0 2 1.0 21 45 28 1 7.8 19.1 93.8 93.5 6.6 2.3 3 Surface 7.8 19.2 93.7 7.8 2.4 2 1.0 22 46 28 1 192 4.5 3.8 3.7 3 2.3 42 28.0 7.9 19.6 91.5 6.4 SR3 Calm 08:37 Middle 7.9 19.6 91.1 822127 807577 6.4 90.6 4.5 42 19.6 2.4 28.0 5.0 5.1 5 4 8.0 2.3 56 27.9 27.9 7.9 7.9 21.1 85.5 85.2 6.0 5.9 Bottom 27.9 7.9 21.1 85.4 6.0 8.0 2.4 56 1.0 1.9 147 28.0 8.2 22.4 94.3 6.5 4.0 2 Surface 28.0 8.2 22.4 94.3 1.0 148 8.2 22.4 94.2 6.5 1.9 28.0 4.1 2 5.0 142 5.7 2 2.0 27.6 6.3 . 8.2 23.8 90.6 SR4A 07:14 8.2 23.8 90.6 817194 807803 Cloudy Calm 9.9 Middle 27.6 5.0 148 27.6 8.2 23.8 90.5 6.3 5.7 2 2.1 12.1 12.4 8.9 1.9 150 27.2 27.2 8.2 85.0 85.1 3 8.2 26.0 26.0 85.1 5.8 5.9 Rottom 27.2 26.0 8.9 2.1 161 8.2 1.0 0.1 280 28.1 8.1 6.6 5.8 4 22.8 95.9 Surface 28.1 8.1 22.8 95.9 1.0 0.1 291 28.1 8.1 22.9 95.8 6.6 6.3 5 SR5A 06:55 4.5 Middle 816578 810706 Cloudy Calm 3.5 0.1 293 28.1 23.0 95.3 6.6 8.5 6 Bottom 28.1 8.1 23.0 95.3 6.6 0.1 312 28.1 8.1 95.3 6.6 8.7 3.5 1.0 0.1 239 27.8 8.0 22.5 95.7 4.6 Surface 27.8 8.0 22.6 95.7 1.0 0.1 260 27.8 8.0 22.7 95.7 6.6 4.5 5 SR6A Cloudy Moderate 06:22 4.6 Middle 817950 814753 3.6 0.0 325 27.8 8.0 95.8 6.6 3.9 6 Bottom 8.0 22.8 95.8 6.6 3.6 0.0 332 27.8 8.0 95.8 6.6 4.0 5 1.0 2.8 12 27.2 7.9 22.7 91.4 6.4 1.5 7.9 91.4 Surface 22.7 1.0 2.8 12 27.1 7.9 22.8 91.3 6.4 1.6 3 9.0 3.0 14 26.7 7.9 27.9 85.4 5.9 2.0 2 SR7 Fine Calm 06:30 18.0 Middle 7.9 27.9 85.4 823619 823745 9.0 3.1 15 26.7 7.9 27.9 85.3 5.8 1.9 17.0 2.8 11 26.4 7.9 29.9 84.4 5.7 3.1 <2 Bottom 7.9 29.9 84.6 2.9 11 26.5 7.9 29.8 84.7 5.8 3.0 <2 1.0 27.7 7.9 21.6 87.3 6.1 5.1 5 Surface 27.7 7.9 21.6 87.5 87.6 6.1 1.0 27.6 7.9 21.6 5.0 4 . . 820404 811609 SR8 Fine Calm 07:55 5.4 Middle -4.4 27.5 6.1 4 7.9 24.1 83.6 5.8 27.5 Bottom 7.9 24.1 83.7 5.8

DA: Depth-Averaged

Water Quality Monitoring Results on during Mid-Ebb Tide 15 May 21 Turbidity(NTU) Suspended Solids Total Alkalinity DO Saturation Chromium Salinity (ppt) Coordinate Coordinate Nickel (µg/L) Weather Sampling Water Water Temperature (°C) Monitoring Current Speed Oxvaen (mg/L) (maga) Sampling Depth (m) HK Grid HK Grid Station Direction Condition Time Depth (m) (m/s) Average Value Average Average Value Average Value DA Value DA Value DA Value DA (Northing) Value DA Value DA Condition Value Value (Easting) 28.6 0.5 24.1 0.5 232 216 28.5 24.1 119. 3.9 4.1 43 0.4 27.6 8.1 24.4 108.7 7.5 6 87 <0.2 1.5 24.4 108.0 804239 C1 Fine Moderate 14:34 8.1 815616 1.6 4.3 0.4 230 27.5 8.1 24.4 107.3 7.4 4.1 7 88 <0.2 1.5 7.6 0.2 209 27.0 8.1 27.3 87.5 6.0 8.4 5 90 <0.2 1.5 Bottom 8.1 27.3 87.6 6.0 7.6 0.2 213 27 N 8.1 27.3 87.6 6.0 8.5 6 91 <0.2 1.5 1.0 1.6 82 28.5 8.1 20.5 92.8 6.4 1.5 88 < 0.2 1.8 Surface 8.1 20.6 92.7 <0.2 1.0 1.7 84 28.4 8.1 20.6 92.6 6.4 1.6 6 88 1.8 6.0 1.7 84 27.8 8.1 86.2 6.0 2.5 7 91 91 <0.2 1.9 C2 Fine Calm 13:21 12.0 Middle 8.1 21.1 86.1 825701 806965 6.0 1.7 27.7 8.1 89 21.1 86.0 6.0 11.0 2.0 27.7 8.0 3.8 7 93 1.9 79 26.8 79.5 5.4 < 0.2 Bottom 8.0 26.8 79.6 5.4 1.9 5.4 8 11.0 2.0 27.8 8.0 79.6 94 <0.2 86 26.7 1.0 2.2 27.9 5.6 8.1 24.2 89.5 6.1 < 0.2 1.3 Surface 27.9 8.1 24.3 89.4 5.7 1.3 1.0 6.1 10 87 <0.2 2.3 59 27.9 8.1 24.3 89.3 59 1.3 27.4 27.3 5.6 6.8 11 88 89 <0.2 6.0 8.1 25.2 25.2 81.2 C3 Fine Calm 15:09 12.0 Middle 8.1 25.2 81.0 90 822120 817826 1.3 80.8 10 2.0 62 8.1 11 <0.2 1.3 11.0 2.1 60 27.2 8.1 28.3 79.8 5.4 9.3 93 27.3 8.1 5.4 Bottom 28.2 79.8 11.0 2.2 63 27.3 8.1 28.2 79.8 5.4 9.3 10 93 <0.2 1.2 0.1 28.1 4.6 14 8.1 7.6 <0.2 1.5 23.1 Surface 28.1 8.1 23.2 109.5 1.0 0.1 198 28.0 8.1 23.3 109.0 7.5 4.7 6 86 <0.2 1.4 7.6 807120 IM1 Fine Moderate 14:14 5.0 Middle 88 817926 4.0 0.1 136 27.8 8.1 91.0 6.3 8.7 6 90 <0.2 1.4 Bottom 27.8 8.1 23.9 91.1 6.3 4.0 0.1 143 27.8 8.1 6.3 8.2 1.4 0.2 180 28.1 8.1 22.9 7.4 7.4 4.6 4 85 <0.2 1.4 Surface 28.1 8.1 22.9 106.8 1.0 0.2 180 28.0 4.6 5 87 <0.2 3.6 0.2 165 27.6 5.2 4 87 <0.2 <0.2 <0.2 1.6 6.3 806187 Fine Moderate 14:07 Middle 8.1 23.7 90.7 818159 27.5 4.9 5 5 3.6 0.2 6.2 0.2 120 27.5 8.1 84.8 5.8 15.7 90 1.4 Bottom 27.5 8.1 25.2 84.8 5.8 5.8 1.5 6.2 0.2 128 27.5 8.1 25.2 84.8 15.6 6 92 <0.2 1.5 1.0 0.2 204 27.6 8.1 24.1 87.3 6.0 10.0 10 86 <0.2 Surface 8.1 24.2 87.2 1.0 0.2 212 27.6 8.1 24.3 87.1 6.0 10.7 9 85 <0.2 1.5 1.5 3.7 0.2 157 27.4 8.1 6.0 13.5 9 87 <0.2 IM3 Moderate 14:00 7.4 Middle 86.9 818794 805581 <0.2 3.7 0.2 162 27.4 13.5 10 6.4 128 27.4 87.2 87.2 13.3 11 90 1.5 0.2 8.1 25.4 6.0 13.1 6.4 0.2 138 27.4 8.1 25.5 10 <0.2 90 1.0 0.4 196 27.7 8.1 23.3 94.1 6.5 6.5 8.2 10 85 <0.2 1.6 Surface 27.7 8.1 23.3 94.1 94 1 87 1.0 27.7 8 1 8.5 11 0.4 214 23.3 < 0.2 11 4.2 180 11.4 89 88 1.4 0.2 27.2 8.1 26.2 87.8 6.0 <0.2 IM4 Moderate 13:51 Middle 27.2 8.1 26.2 87.7 819735 804604 10 87.6 11.2 4.2 185 27.1 8.1 0.2 26.3 11 12 7.4 0.2 143 27.1 27.1 8.1 8.1 26.6 26.6 87.0 87.1 6.0 13.3 13.3 90 91 <0.2 1.5 6.0 Rottom 27.1 8.1 26.6 87.1 143 0.3 < 0.2 1.5 1.0 0.5 10.9 225 28.2 8.1 21.8 7.1 8 86 <0.2 Surface 28.2 8.1 21.8 103.0 1.0 8.1 21.8 7.1 11.0 9 <0.2 1.6 0.5 227 28.2 102.9 86 4.3 0.3 188 27.4 6.8 9.8 7 88 <0.2 1.5 8.1 23.7 97.3 IM5 13:44 27.4 8.1 23.7 97.1 820715 804888 Fine Moderate Middle 4.3 204 27.3 8.1 23.7 96.8 10.5 8 89 < 0.2 1.4 0.3 9.7 1.5 <0.2 7.6 0.2 166 27.2 27.2 8.1 25.9 25.9 89.2 89.6 6.1 8 7 90 8.1 89.4 6.2 Bottom 27.2 25.9 0.2 176 <0.2 1.7 1.6 1.6 1.0 0.3 247 27.9 8.1 21.4 7.1 7.1 8.8 7 87 <0.2 102.5 Surface 27.9 8.1 21.4 102.0 1.0 0.3 247 27.8 8.1 21.4 10.1 86 <0.2 3.9 0.2 186 27.5 8.1 87.9 10.9 8 88 <0.2 24.3 13:36 7.8 Middle 27.5 8.1 24.3 87.8 89 821061 805824 IM6 Fine Moderate 3.9 0.2 201 27.5 8.1 24.3 87.7 6.0 10.8 88 <0.2 1.7 6.8 0.2 182 27.5 24.4 6.0 15.2 8 91 <0.2 1.8 Bottom 27.5 8.1 24.4 87.6 6.0 1.6 6.8 184 27.5 8.1 87.6 15.3 0.2 1.0 0.2 250 28.5 8.1 20.8 102.2 5.4 85 <0.2 1.7 Surface 28.5 8.1 20.9 102.2 1.0 0.2 267 28.4 8.1 20.9 102.1 7.1 5.7 8 86 <0.2 1.7 1.7 4.1 0.0 189 28.0 6.7 9.4 7 88 <0.2 22.2 96.4 IM7 Fine Moderate 13:27 8.2 Middle 28.0 8.1 22.3 96.3 821362 806855 <0.2 4.1 0.0 203 28.0 8.1 96.1 6.6 9.9 8 87 7.2 0.2 125 27.9 8.1 95.1 6.6 12.8 6 90 <0.2 1.7 8.1 23.0 95.1 6.6 7.2 0.2 137 27.9 8.1 95.0 6.6 12.8 6 89 <0.2 1.7 1.0 1 4 15 28.3 8.0 20.6 90.5 6.3 2.7 87 < 0.2 1.7 Surface 20.6 90.3 1.7 1.0 1.4 15 28.3 8.0 20.6 90.1 6.3 2.8 6 86 <0.2 4 0 1.5 18 28.2 8.2 22.2 83.9 5.8 3.6 5 6 89 90 <0.2 1.6 1.5 IM8 Fine Calm 13:42 8.0 Middle 28.2 8.2 22.2 83.8 821809 808153 4.0 1.5 18 28.2 8.2 83.7 5.8 3.6 < 0.2 7.0 1.7 19 28.2 8.2 22.3 83.7 5.8 4.1 6 93 <0.2 1.7 8.2 Bottom 28.2 22.3 83.7 5.8

DA: Depth-Averaged

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

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

Water Qual					15 May 21	during Mid-	Ebb Tide Current	<u>e</u>							DO 6	aturation	Disso	hed	ı	-	Suspende	ad Solida	Total ^	lkalinit.	1	I	Chromium	
Monitoring	Weather	Sea	Sampling	Water	Sampling Dep	th (m)	Speed	Current	Water Te	emperature (°C)		pН	Salin	ity (ppt)		aturation (%)	Oxy		Turbidity(NTU)	Suspende mg)			lkalinity m)	Coordinate HK Grid	Coordinate HK Grid	(µg/L)	Nickel (µg
Station	Condition	Condition	Time	Depth (m)	Sampling Dep	itn (m)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)	Value DA	Value D
					Surface	1.0	1.9	33	28.3	28.3	8.0	8.0	20.6	20.6	91.5	91.3	6.4		6.5		7		87				<0.2	1.6
						1.0	2.1	34 31	28.2 28.1		8.0 8.2		20.6		91.0 82.2		6.3 5.7	6.0	6.5 7.2	-	8		87 89				<0.2	1.5
IM9	Fine	Calm	13:47	7.4	Middle	3.7	2.1	34	28.1	28.1	8.2	8.2	22.4	22.4	82.1	82.2	5.7		7.2	7.6	7	7	91	90	822073	808801	<0.2	1.6
					Bottom	6.4	2.1	33 35	28.2 28.2	28.2	8.2 8.2	8.2	22.5 22.5	22.5	82.9 83.0	83.0	5.7	5.7	9.1 9.0	-	7	ļ	92 92				<0.2	1.7
					Surface	1.0	1.9	35 45	28.9	20.0	8.0	0.0	20.3	20.2	98.1	00.4	6.8		4.7		7		86				<0.2	1.5
					Surface	1.0	1.9	48 44	28.9	28.9	8.0	8.0	20.3	20.3	98.1	98.1	6.8	6.8	4.8		7	Į	87				<0.2	1.6
IM10	Fine	Calm	13:52	7.6	Middle	3.8	2.1	44	28.5 28.4	28.5	8.2 8.2	8.2	20.5	20.5	96.9 96.1	96.5	6.7		5.2 5.2	5.3	5 6	6	91 91	90	822374	809785	<0.2	2 1.6 1
					Bottom	6.6	2.2	41	28.2	28.2	8.2	8.2	22.4	22.4	86.3	86.4	6.0	6.0	6.1		5	ļ	92				<0.2	1.7
						6.6 1.0	2.4 1.9	43 47	28.2 28.5		8.2 8.0		22.4		86.5 97.2		6.0		6.0 2.6		7		92 86				<0.2 <0.2	1.7
					Surface	1.0	2.1	49	28.4	28.5	8.0	8.0	20.6	20.6	96.6	96.9	6.7	6.3	2.5	ļ	6		87				<0.2	1.5
IM11	Fine	Calm	14:01	8.0	Middle	4.0	2.0	49 52	28.2 28.2	28.2	8.2 8.2	8.2	22.3	22.3	86.1 86.1	86.1	5.9 5.9		3.5 3.6	3.9	7	6	90 91	90	822034	811457	<0.2	2 1.6 1
					Bottom	7.0	2.0	46	28.5	28.5	8.2	8.2	22.2	22.2	86.3	86.4	5.9	5.9	5.7	į	6		92				<0.2	1.6
						7.0	2.1	48 49	28.5 28.7		8.2 8.0		22.2		86.4 98.3		5.9 6.8		5.7 2.0		5 6		91 86				<0.2	1.6
					Surface	1.0	2.1	52	28.6	28.7	8.0	8.0	21.0	20.9	97.8	98.1	6.7	6.2	1.9	Į	6	İ	86				<0.2	1.7
IM12	Fine	Calm	14:06	9.2	Middle	4.6 4.6	2.3	43 46	28.1 28.0	28.1	8.2 8.2	8.2	22.4	22.4	81.2 81.0	81.1	5.6 5.6	0.2	2.2	2.5	7	6	87 87	88	821479	812050	<0.2	2 1.6 1
					Bottom	8.2	2.1	45	28.1	28.1	8.2	8.2	22.7	22.6	81.5	81.8	5.6	5.7	3.6	ŀ	7	İ	92				<0.2	1.7
					Bollom	8.2 1.0	2.2	46	28.1	20.1	8.2	0.2	22.6	22.0	82.0	01.0	5.7	5.7	3.5 4.6		6 8		92				<0.2	1.5
					Surface	1.0	-		28.6 28.5	28.6	8.1	8.1	20.7	20.7	93.5 93.4	93.5	6.5	0.5	4.6	-	7	•	-				-	-
SR1A	Fine	Calm	14:36	4.2	Middle	2.1	-	-	-	-	-		-		-		-	6.5	-	5.7		8	-		819972	812657	<u> </u>	-
						2.1 3.2	-	-	28.4		8.1		22.4		87.0		6.0		6.8	ŀ	9	ł	-				-	-
					Bottom	3.2	-		28.3	28.4	8.1	8.1	22.5	22.5	86.2	86.6	5.9	6.0	6.7		8		-				-	
					Surface	1.0	0.5 0.5	38 40	29.3 29.2	29.3	8.1 8.1	8.1	20.4	20.4	105.0 104.7	104.9	7.2		2.2	-	6 5	•	90				<0.2	1.1
SR2	Fine	Calm	14:50	3.6	Middle	-	-	-	-		-		-		-		-	7.2	-	2.6	-	5	-	91	821478	814182	- <0.2	
						2.6	0.3	40	28.8		8.1		21.2		95.3		6.5		2.9		5		92				<0.2	1.2
					Bottom	2.6	0.3	42	28.8	28.8	8.1	8.1	21.3	21.2	94.9	95.1	6.5	6.5	3.0		5		92				<0.2	1.1
					Surface	1.0	1.3	32 34	28.3 28.2	28.3	8.0	8.0	20.5	20.5	90.5 89.8	90.2	6.3		2.0 1.9	-	5		-				-	-
SR3	Fine	Calm	13:36	9.0	Middle	4.5	1.3	31	28.1	28.1	8.0	8.0	22.4	22.4	82.0	82.0	5.7	6.0	3.2	3.2	4	4	-		822135	807565		-
SNS	rille	Callii	13.30	5.0	ivildale	4.5 8.0	1.4 1.5	33 30	28.1		8.0 8.2	0.0	22.4 22.3	22.4	81.9 81.6	02.0	5.6		3.1 4.6	3.2	5	-	-		022133	807303	- '	-
					Bottom	8.0	1.5	32	28.2 28.2	28.2	8.0	8.1	22.3	22.3	81.5	81.6	5.6 5.6	5.6	4.6	ŀ	3 4	ł	-				-	-
					Surface	1.0	0.0	83	28.2	28.2	8.1	8.1	23.5	23.5	109.0	108.8	7.5		6.8		9		-				-	_
0044	F		44.50		A.C. I. II.	1.0 4.2	0.0	90 68	28.1 27.9	27.0	8.1 8.1		23.6	044	108.6 97.1	07.4	7.4 6.7	7.1	7.0 7.6		8		-		047000	007704	-	-
SR4A	Fine	Moderate	14:59	8.4	Middle	4.2	0.1	71	27.8	27.9	8.1	8.1	24.1	24.1	97.0	97.1	6.7		7.7	7.6	7	8	-	-	817202	807794		-
					Bottom	7.4	0.1 0.1	60 65	27.7 27.8	27.8	8.1 8.1	8.1	24.5	24.5	89.3 89.4	89.4	6.1	6.1	8.2 8.1	ŀ	7 6	ł	-	1			-	-
					Surface	1.0	0.0	112	28.5	28.5	8.1	8.1	23.0	23.0	102.6	102.6	7.0		8.4		8		-				-	
						1.0	0.0	112	28.5		8.1		23.0		102.5		7.0	7.0	8.7		9		-				-	-
SR5A	Fine	Moderate	15:19	3.5	Middle	-	-	-	-	-	-	•	-	•	-		-		-	11.7	-	10	-	-	816602	810717	-	-
					Bottom	2.5	0.0	119 128	28.4 28.4	28.4	8.0	8.0	23.3	23.3	98.1 98.1	98.1	6.7	6.7	14.7 15.1	-	11 10	ļ	-				-	-
					Surface	1.0	0.1	23	28.6	28.6	8.1	8.1	22.8	22.8	101.0	100.9	6.9		8.0		12		-				-	
						1.0	0.1	23	28.6	20.0	8.1	0	22.9		100.8	.00.0	6.9	6.9	8.1	}	13	}	-					-
SR6A	Fine	Moderate	16:02	4.0	Middle		-		-	-	Ė	-		-	-	-	-		-	8.5	-	13	Ė	-	817984	814718		-
					Bottom	3.0	0.1 0.1	20 21	28.3 28.2	28.3	8.0	8.0	23.1	23.1	91.7 91.5	91.6	6.3	6.3	8.9 9.0	-	13 13		-				-	-
	1				Surface	1.0	0.9	178	28.6	28.6	8.1	8.1	21.9	22.0	103.3	103.2	7.1		2.2		6							
						1.0 9.0	1.0 0.8	191 174	28.6 28.6	28.6	8.1 8.1		22.0		103.1 98.8		7.1 6.8	7.0	2.1 3.1	ļ	5 6	I	-				=	-
SR7	Fine	Calm	15:36	18.0	Middle	9.0	0.8	174	28.6	28.6	8.1	8.1	22.5	22.5	98.8	98.8	6.8		3.1	3.6	5	6	-	-	823618	823739	-	-
					Bottom	17.0	0.9	194	28.6	28.6	8.1	8.1	22.6	22.6	97.7	97.7	6.7	6.7	5.6	ļ	6]	-					
					0.1	17.0	1.0	195	28.6 28.9		8.1 8.1		22.6		97.7 88.0		6.7		5.5 6.6		8		-				+	-
					Surface	1.0	-	-	28.9	28.9	8.1	8.1	21.4	21.4	88.1	88.1	6.0	6.0	6.7	ļ	9	1	-				-	-
SR8	Fine	Calm	14:14	5.4	Middle	-	-	-	-	-	-	-	-	-	-	-	-		-	7.5	-	9	-	-	820373	811613		-
					Bottom	4.4	-	- :	28.9	28.9	8.2	8.2	21.5	21.4	88.7	88.8	6.1	6.1	8.4	Į	8	İ	-					-
			1		Dottom	4.4	-	-	28.9	20.5	8.2	0.2	21.4	21.7	88.8	00.0	6.1	0.1	8.4		9		-	1	1		1 - 1	- 1

Water Quality Monitoring Results on 15 May 21 during Mid-Flood Tide DO Saturation Dissolved Suspended Solids Total Alkalinity Chromium Salinity (ppt) Turbidity(NTU) Coordinate Coordinate Nickel (µg/L) Weather Sampling Water Water Temperature (°C) Monitoring Current Speed Oxvaen (mg/L) (maga) Sampling Depth (m) HK Grid HK Grid Station Direction Condition Time Depth (m) (m/s) Average Value Average Average Value Average Value DA Value DA Value DA Value DA Value DA Value DA Condition Value Value (Northing) (Easting) 27.6 0.4 Surface 27.6 8.1 21.9 99.3 1.0 0.4 38 27.6 21.9 99.2 6.9 4.5 86 <0.2 0.4 27.3 6.3 10.3 87 1.2 24.8 <0.2 C1 8 1 24.8 91.3 804258 08:24 8.5 Middle 27.3 815638 Sunny Moderate 88 13 8.1 24.8 91.1 6.3 10.7 5 88 <0.2 1.2 0.5 36 27.2 7.5 0.4 36 27.2 8.1 26.1 90.9 6.2 12.2 4 90 <0.2 1.4 8.1 91.0 6.3 Bottom 27.2 26.1 27.2 91.0 12.0 1.3 <0.2 7.5 0.4 8.1 26.0 5 91 1.0 1.9 1.3 85 < 0.2 1.8 Surface 28.3 8.0 18.1 85.1 8.0 84.9 6.0 1.3 2.1 86 1.0 2.0 28.3 18.1 <0.2 6.0 5.7 6 89 1.2 28.1 8.0 21.8 82.9 C2 Fine Calm 09:39 12 0 Middle 28.1 8.0 21.8 82.8 89 825688 806950 2.1 21.9 82.7 5.7 2.1 7 89 <0.2 6.0 18 28.1 8.0 11.0 2.0 15 28.1 8.2 81.8 5.6 4.5 6 91 <0.2 1.4 22.2 8.2 81.7 5.6 Bottom 28.2 22.2 11.0 2.2 28.2 8.2 22.2 81.6 4.5 7 92 <0.2 1.3 1.0 27.7 8.2 1.8 4 83 <0.2 1.5 Surface 27.7 8.2 21.1 87.5 1.0 1.1 343 27.6 8.2 87.4 6.1 1.8 5 83 <0.2 1.6 3.9 4 5 1.5 6.0 1.2 343 86 86 <0.2 26.9 8.2 80.3 5.5 C3 07:44 817794 Fine Calm 12.0 Middle 26.9 8.2 26.9 80.2 86 822126 1.5 1.3 316 26.9 26.8 11.0 1.2 329 26.8 8.2 28.5 79.2 5.4 4.9 4 88 <0.2 1.4 Bottom 26.8 8.2 28.5 79.2 5.4 11.0 1.2 334 26.8 8.2 28.5 79.2 5.4 5.0 3 88 1.5 1.0 0.1 319 27.7 8.1 88 <0.2 1.2 Surface 27.7 8.1 23.2 94.5 1.0 0.1 346 27.6 8.1 23.2 94.3 6.5 8.8 7 87 <0.2 1.3 807138 IM1 Sunny Moderate 08:45 Middle 817970 47 0.1 33 27.5 8.0 25.4 86.9 6.0 11.5 6 qη < 0.2 1.2 Bottom 27.5 8.0 25.4 86.9 6.0 36 357 47 0.1 27.5 8.0 25.4 86.8 6.0 11.3 6 91 <0.2 1.2 1.0 0.2 27.9 8.1 22.7 100.4 6.9 4.8 4 85 < 0.2 1.2 Surface 8.1 22.8 100.4 1.0 0.2 328 27.9 8.1 22.8 100.4 6.9 4.8 5 86 <0.2 1.2 3.8 0.3 27.6 8.1 94.6 6.6 4.8 5 87 <0.2 1.3 IM2 Moderate 08:55 7.6 Middle 8.1 23.0 94.5 818141 806173 1.2 1.2 1.3 1.2 3.8 0.3 27.6 8.1 94.4 6.6 4.8 4 86 <0.2 5 5 6.6 0.2 27.5 8 1 25.2 87.7 6.0 8.4 89 <0.2 8.1 25.2 87.7 6.0 87.7 6.6 0.2 27.5 8 1 25.2 6.0 8.4 89 <0.2 1.0 0.4 340 27 9 8.2 21 9 7.2 44 86 < 0.2 13 Surface 8.2 22.0 103.4 1.3 1.0 8.2 4.5 85 0.4 313 27.9 7.2 6 <0.2 4.0 4.8 4 88 <0.2 1.3 0.3 348 27.9 8.1 102. 7.1 IM3 Sunny Moderate 09:06 7.9 Middle 27.9 8.1 22.6 102.6 88 818786 805583 3 4 4.8 5.6 4.0 27.9 27.8 88 91 1.2 0.3 320 8.1 <0.2 6.9 0.2 350 8.1 23.0 97.0 6.7 6.7 Rottom 27.8 8.1 23.1 96.9 6.9 0.2 352 27.7 8.1 23.2 96.7 6.7 6.3 <0.2 1.3 91 1.0 0.6 349 27.7 4.7 1.2 8.1 22.3 97.1 6.7 6 86 <0.2 Surface 27.7 8.1 22.4 96.9 0.6 321 4.8 5 85 <0.2 1.3 4.0 8.6 4 87 <0.2 1.2 355 27.5 6.6 0.5 8.1 23.0 95.1 IM4 09:16 8.0 Middle 27.5 8.1 23.0 94.8 819722 804609 Sunny Moderate 4.0 0.6 327 27.4 8.1 6.6 9.4 5 88 <0.2 0.5 356 27.3 10.8 4 5 90 1.2 8.1 86.5 25.2 6.0 8.1 Bottom 27.3 25.2 86.5 6.0 7.0 0.5 328 27.3 10.6 <0.2 1.1 1.3 1.0 0.7 27.9 8.1 21.7 4.4 4 85 <0.2 100.7 7.0 Surface 27.9 8.1 21.7 100.7 1.0 27.9 8.1 7.0 4.6 3 87 <0.2 0.8 3.9 0.7 27.7 10.9 3 89 <0.2 1.2 8.1 6.5 09:23 IM5 Sunny 7.8 Middle 27.7 8.1 23.3 93.5 820752 804860 Moderate 3.9 0.8 27.7 11.6 88 <0.2 14.9 5 1.2 6.8 0.6 27.6 8.1 92.6 6.4 89 <0.2 27.6 8.1 23.7 92.8 6.4 Bottom 6.8 0.6 15 27.6 < 0.2 1.0 0.1 359 28.3 8.1 18.9 4.5 3 85 <0.2 1.3 Surface 8.1 18.9 100.3 1.0 0.1 336 28.3 8 1 18.9 7.0 4.6 4 85 <0.2 1.3 4.2 0.3 28.0 8.1 6.8 7.8 4 87 <0.2 Sunny Moderate 09:32 Middle 28.0 8.1 21.1 97.0 821050 805839 <0.2 4.2 0.3 33 27.9 8.1 21.2 96.8 6.8 8.3 5 88 9.9 9.7 1.2 7.4 0.3 56 27.9 8.1 96.1 96.2 6.7 5 89 <0.2 96.2 6.7 7 4 0.3 61 27 9 8 1 4 89 1.5 1.6 1.0 0.1 80 28.3 8.1 19.6 96.6 6.8 4.2 4 85 <0.2 Surface 96.5 8 1 96.4 6.7 1.0 0.1 84 28.2 196 4.4 3 86 <0.2 9.9 4 87 1.2 4.2 0.2 77 8.1 <0.2 27.8 20.4 94.4 6.6 IM7 Moderate 09:40 Middle 27.8 94.3 821361 806822 Sunny 88 4.2 0.2 79 27.7 8.1 20.4 94.2 6.6 10.9 4 7.4 0.2 84 27.7 8.1 24.0 87.8 6.0 10.9 5 90 <0.2 1.2 Bottom 27.7 8.1 24.1 87.6 6.0 7.4 0.2 84 27.7 8.1 24.2 87.4 10.0 6 91 <0.2 1.0 2.3 52 28.3 8.0 19.6 87.4 6.1 5.9 1.1 6 86 < 0.2 1.6 Surface 28.3 8.0 19.6 85.6 19.6 83.7 1.6 8.0 1.1 <0.2 1.0 2.3 56 28.3 6 86 4.0 8.2 19.9 82.7 5.8 2.0 6 91 <0.2 1.5 2.2 51 28.2 8.2 19.9 82.7 821852 808138 IM8 Fine Calm 09:16 8.0 Middle 28.2 90 1.5 82.7 1.9 19.8 5.8 91 4.0 55 8.2 6 2.4 28.2 7.0 92 1.5 2.4 28.2 8.2 8.2 83.9 5.8 3.3 3.2 <0.2 53 21.3 5 28.2 8.2 21.2 84.0 5.8 Rottom

DA: Depth-Average

Water Qual	ity Monit	oring Resu	ults on		15 May 21 d	luring Mid-l	Flood Tic	le																			
Monitoring	Weather	Sea	Sampling	Water	0	()	Current Speed	Current	Water Te	emperature (°C)	1	рН	Salin	ity (ppt)		aturation (%)	Dissolv Oxyge		Turbidity(I	NTU)	Suspende (mg.		Total Alkal (ppm)	Coordina		Chromium (µg/L)	Nickel (μg/
Station	Condition	Condition	Time	Depth (m)	Sampling Depth	(m)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value D	HK Gri		Value D/	A Value DA
					Surface	1.0 1.0	1.6 1.6	50 51	28.3 28.3	28.3	8.0	8.0	18.7 18.7	18.7	87.3 87.0	87.2	6.1	-	1.7		5 4		86 86			<0.2	1.2
IM9	Fine	Calm	09:10	7.4	Middle	3.7	1.9	51	28.2	28.2	8.2	8.2	20.5	20.5	84.3	84.4	5.9	6.0	2.8	3.0	5	5	89	9 822102	808817	<0.2	1.5
					Bottom	6.4	1.9 2.0	55 50	28.2 28.1	28.1	8.2 8.2	8.2	20.4	22.0	84.5 82.0	82.3	5.9 5.7	5.7	2.8 4.4	L	5		91 90			<0.2	1.4
					Surface	6.4 1.0	2.1 1.5	50 3	28.1 28.3		8.2		22.0		82.5 88.3		5.7 6.1	-	4.5 1.0		6		91 83			<0.2 <0.2	1.6
						1.0 3.8	1.5 1.5	3	28.3 28.0	28.3	8.0 8.2	8.0	20.6 21.5	20.6	88.1 85.9	88.2	6.1	6.1	1.1 2.1	F	6 5		83 87			<0.2	1.3
IM10	Fine	Calm	09:03	7.6	Middle	3.8	1.6	2	28.0	28.0	8.2	8.2	21.6	21.5	85.9	85.9	6.0		2.1	2.3	4	5	88	7 822394	809784	<0.2	.2 1.5 1.5
					Bottom	6.6 6.6	1.5 1.6	6	27.9 27.9	27.9	8.2 8.2	8.2	23.4 23.4	23.4	81.4 81.7	81.6	5.6	5.6	3.8 3.9	-	5 4		90 90			<0.2 <0.2	1.6
					Surface	1.0 1.0	1.1	25 26	27.9 27.9	27.9	8.0	8.0	22.4	22.4	85.3 85.3	85.3	5.9	5.8	2.0 1.9	H	7		84 84			<0.2	1.3
IM11	Fine	Calm	08:54	8.0	Middle	4.0 4.0	1.1 1.1	24 25	27.7 27.7	27.7	8.2 8.2	8.2	22.5	22.5	83.7 80.3	82.0	5.8 5.6	5.0	2.2	2.6	6 7	6	86 85	5 822072	811471	<0.2 <0.2	.2 1.4 1.4
					Bottom	7.0	1.1	20	27.7	27.7	8.1 8.1	8.1	24.2	24.2	79.9 79.8	79.9		5.5	3.8	ļ	5		87 86			<0.2	1.5
					Surface	1.0	0.5	14	28.0	28.0	8.2	8.2	21.6	21.6	88.2	88.2	6.1		1.7		5		84			<0.2	1.5
IM12	Fine	Calm	08:49	9.2	Middle	1.0 4.6	0.5 0.5	15 17	27.9 27.7	27.7	8.2 8.2	8.2	21.6 23.8	23.8	88.1 81.9	81.9	5.6	5.9	1.8	2.6	6	6	84 85	6 821436	812053	<0.2	.2 1.6 1.5
IIVI12	rile	Callii	00.49	9.2		4.6 8.2	0.5	17 15	27.7 27.7		8.2 8.2		23.9		81.8 81.4		5.6 5.6	_	2.0 4.1	2.0	6 7	0	85 88	0 021430	812033	<0.2	1.5
					Bottom	8.2 1.0	0.5	15	27.8	27.8	8.2	8.2	23.8	23.9	81.4	81.4	5.6	5.6	4.1		6		88			<0.2	1.5
					Surface	1.0	-	-	28.2	28.2	8.2 8.2	8.2	19.7	19.8	85.6	85.8	6.0	6.0	1.1	L	5		-			-	-
SR1A	Fine	Calm	08:18	4.2	Middle	2.1 2.1	-	-	-	-	-	-	-	-	-	-	-	-	-	1.1	-	5	-	81997	812665	-	-
					Bottom	3.2 3.2	-	-	28.1 28.0	28.1	8.2 8.2	8.2	21.0	21.0	84.0 83.9	84.0	5.9	5.9	1.1	F	4 5		-			-	-
					Surface	1.0 1.0	0.3	102 105	28.0 28.0	28.0	8.2 8.2	8.2	22.1 22.1	22.1	83.8 83.5	83.7	5.8 5.8	ŀ	2.1		9		85 84			<0.2 <0.2	1.8
SR2	Fine	Calm	08:03	3.6	Middle	-	-	-	-	-	-	-	-	-	-	-	-	5.8	-	2.6	-	8	- ,	6 82146	814187	- <0.	2 - 1.
					Bottom	2.6	0.2	83	27.8	27.8	8.2	8.2	22.6	22.6	80.9	80.9	5.6	5.6	3.2	L	7		86			<0.2	1.7
						2.6 1.0	0.3 2.1	87 39	27.8 28.3		8.2		22.6 18.3		80.8 90.4	90.2	5.6 6.4	0.0	3.1 1.4		6		- 87			<0.2	1.6
					Surface	1.0 4.5	2.1	39 41	28.3 28.2	28.3	8.0 8.2	8.0	18.3 20.9	18.3	90.0 82.8		6.3 5.8	6.1	1.4 2.3	F	5 5		-			-	-
SR3	Fine	Calm	09:22	9.0	Middle	4.5	2.3	43	28.2	28.2	8.2	8.2	21.0	20.9	82.5	82.7	5.7		2.2	2.3	6	5	-	822156	807579	-	-
					Bottom	8.0 8.0	2.3 2.5	44 44	28.2 28.3	28.3	8.2 8.2	8.2	21.2 21.2	21.2	81.3 81.1	81.2	5.6	5.6	3.2		6		-			-	-
					Surface	1.0 1.0	0.1 0.1	81 84	27.9 27.9	27.9	8.1 8.1	8.1	22.3	22.3	93.6 93.5	93.6	6.5	6.3	5.5 5.6	L	6 5		-			-	-
SR4A	Sunny	Moderate	07:57	8.6	Middle	4.3 4.3	0.3	72 77	27.8 27.8	27.8	8.0	8.0	23.2	23.3	88.5 88.5	88.5	6.1	0.3	5.8 5.8	8.0	6 5	6	-	817176	807826	-	-
					Bottom	7.6 7.6	0.3	66	27.5 27.5	27.5	8.0	8.0	24.9	24.9	86.0 86.3	86.2	E 0	5.9	12.8 12.6	ļ	8		-			-	-
					Surface	1.0	0.1	282	28.2	28.2	8.0	8.0	22.5	22.5	95.4	95.4	6.6		5.2		7		-				-
SR5A	Sunnv	Moderate	07:36	4.6	Middle	1.0	0.1	286	28.2	_	8.0	_	22.5		95.4	_	6.6	6.6	5.2	6.0	7	8	-	- 816582	810712	-	-
ONSA	Guilly	Woderate	07.50	4.0		3.6	0.1	287	28.2		8.0		22.7		94.8		6.5	_	6.9	0.0	9	Ü	-	01000	010/12	-	
					Bottom	3.6 1.0	0.1	295 292	28.1 28.0	28.2	8.0 8.1	8.0	22.7	22.7	94.8	94.8	6.5	6.5	6.8		10				1		-
					Surface	1.0	0.1	313	28.0	28.0	8.1	8.1	21.1	21.2	93.5 93.2	93.4	6.5	6.5	5.0	Ė	6		-				-
SR6A	Sunny	Moderate	07:05	4.3	Middle	-	-		-	-	-	-	-	-	-	-	-		-	5.7	-	5	-	81797	814762	-	-
					Bottom	3.3 3.3	0.1	249 249	28.0 28.0	28.0	8.0	8.0	22.9	22.8	91.9 92.5	92.2	6.3	6.4	6.6 6.4	L	4 5		-			-	-
					Surface	1.0 1.0	2.8	19 20	27.9 27.8	27.9	8.2 8.2	8.2	21.5	21.5	89.1 88.8	89.0	6.2	Ţ	1.4	Ţ	4					-	-
SR7	Fine	Calm	07:15	18.0	Middle	9.0	3.0	15	27.1	27.1	8.2	8.2	26.9	27.0	81.0	81.0	5.5	5.9	2.6	2.5	3	4	-	823624	823738	<u> </u>	
-					Bottom	9.0 17.0	3.3 2.8	15 19	27.1 26.7	26.7	8.2 8.2	8.2	27.1 29.3	29.3	81.0 77.1	77.5	5.5 5.2	5.3	2.6 3.6	1	4		-			-	-
	1					17.0 1.0	3.0	19 -	26.7 28.1		8.2 8.2		29.3 21.4		77.8 83.9		5.3	J.J	3.6 2.5		3		-	1	1	1-	-
					Surface	1.0	-	-	28.1	28.1	8.2	8.2	21.4	21.4	83.8	83.9	5.8	5.8	2.5	ļ	5		-			-	-
SR8	Fine	Calm	08:42	5.4	Middle	-			-	-	-	-	-	-	-	-	-		-	3.1	-	6	-	820410	811645	-	-
DA: Denth-Aver					Bottom	4.4 4.4	-	-	28.1 28.1	28.1	8.2	8.2	21.5	21.5	84.2 84.4	84.3	5.8	5.9	3.7	-	6		-			-	-

Property Property	Water Qua			ults on		18 May 21	during Mid-		е																				
500 Money Mo		Weather	Sea	Sampling	Water	Sampling Don	th (m)			Water Te	emperature (°C)		pН	Salin	ity (ppt)					Turbidity(I	NTU)								Nickel (µg/L)
Second S	Station	Condition	Condition	Time	Depth (m)	Sampling Dep	ur (iii)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value DA	Value DA
Car Free Rough						Surface					29.2		8.2	18.1	18.1		138.8						,						
Martin	C1	Fine	Rough	16:37	7.8	Middle	3.9	0.4	199	29.2	29.2	8.2	8.2	18.2	18.2	136.7	136.5	9.5	9.5	3.4	3.9	5	5	88	88	815624	804254	<0.2	1.8
Californ Californ						Bottom	6.8	0.4	202	27.6	27.6	8.2	8.2	23.3	23.9	91.8	92.1	6.4	6.4	5.0	Ė	5		91				<0.2	1.7
Californ Royal 1500 114 Made																													
Martin M																			6.7		-							40.2	4.5
Martin M	C2	Sunny	Rough	15:30	11.4	Middle	5.7	1.5	284	27.6	27.7	8.2	8.2	23.0	22.8	81.7	82.2	5.7		9.7	7.1	4	5	90	90	825698	806925	<0.2	1.6
Sum Mulsiss Free Rough Free Free Rough Free						Bottom	10.4	1.4	267	27.1	27.1	8.3	8.3	28.0	28.0	72.6	72.5	4.9	4.9	10.5	-	4	•	93				<0.2	1.5
Surface Marke 1727 121 Marke 64 134 130 13						Surface					29.5		8.2		18.3		130.9		7.1		F								
Martin M	СЗ	Sunny	Moderate	17:27	12.1	Middle					27.0		8.2		26.7		84.1		7.4		2.7		5		88	822099	817791		
Mel Free Rough 16:14 5.0 Suffice 10:10 0:1 20:0 25:14 23:1 0:1						Bottom	11.1	3.0	299	26.8	26.9	8.2	8.2	28.7	28.7	86.6	87.7	5.9	6.0	3.4	Ī	5		91				<0.2	1.5
Miles Free Rough 15:14 So Mode						Surface	1.0	0.1	256	29.4	29.4	8.2	8.2	16.9	16.9	148.4	148.2	10.3		3.2		5		89				<0.2	2.1
Mary Mary	IM1	Fine	Rough	16:14	5.0	Middle			2/3	29.4		8.2		16.9		147.9	_	10.3	10.3		3.7	-	. 4	- 89	90	817955	807146		
Model Fire Rough 16:07 7.1 Model 10:00 02 200 270 270 270 270 270 270 270 27	11411	1110	rtougii	10.14	5.0		4.0	0.2	243	27.4	07.4	8.2		26.5		82.6	20.0	5.6		4.1	5.7	4		91	30	017333	007140	-	
May Free Rough 1607 P.1 Model 1.5 1.																		5.7	5.7				•						
Marting Mart						Surface	1.0	0.2	120	28.8	28.9	8.2		17.0		132.4		9.3	8.3	3.4	ļ	5		85				<0.2	2.1
Main Surry Free Rough 15:31 Rough	IM2	Fine	Rough	16:07	7.1	Middle	3.6	0.2	142	28.2	28.2	8.2	8.2	20.9	20.8	103.1	103.5	7.2		3.9	4.1	4	5	89	88	818186	806149	<0.2	1.9
Marcon Free Rough 16.01 Free Rough 16.01 Free Rough 16.01 To Madde 3.5 0.2 12 28.8 28.8 8.2 8.2 18.5 18.5 106.4 106.4 10.4 4.5 4.5 5.8 10.6 10.6 10.5						Bottom	6.1	0.1	173	26.9	26.9	8.1	8.1	27.7	27.7	81.0	80.9	5.5	5.5	5.0		4		90				<0.2	1.5
Miles Fine Rough						Surface					29.1	8.2	8.2		16.8	127.2 126.2	126.7	8.9			-			86 87				<0.2 <0.2	1.4
Bottom 6.0 0.1 143 266 27 8.0 8.0 26.7 8.0 8.0 26.7 8.0 8.0 26.7 8.0 8.0 26.7 8.0 8.0 26.7 8.0 8.0 26.7 8.0 8.0 26.7 8.0 8.0 8.0 26.7 8.0 8.0 8.0 26.7 8.0 8.0 8.0 26.7 8.0 8.0 8.0 26.7 8.0 8.0 8.0 26.7 8.0 8.0 8.0 26.7 8.0 8.0 8.0 26.7 8.0 8.0 8.0 26.7 8.0 8.0 8.0 26.7 8.0 8.0 8.0 8.0 26.7 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0	IM3	Fine	Rough	16:01	7.0	Middle					28.8		8.2		18.6		108.7		8.2		4.2		5		89	818774	805576		2 2.0 1.8
Marting Surface 1.0						Bottom	6.0	0.1	143	26.6	26.7	8.0	8.0	28.5	28.5	78.7	78.9	5.4	5.4	4.9		4		90				<0.2	2.2
May Fine Rough 15.51 8.6 Middle 4.3 0.4 186 28.8						Surface	1.0	0.4	164	29.3	29.3	8.3	8.3	16.0	16.0	129.7	129.7	9.1		3.3		5		82				<0.2	1.4
Mideland Mideland	IMA	Fine	Pough	15:51	8.6	Middle	4.3	0.4	186	28.8	28.8	8.2		18.4		109.7		7.6	8.3	4.7	4.5	4		89	88	810706	80/1502	<0.2	2.0
Middle	IIVI-	1110	rtougii	10.51	0.0																-				00	013700	004332	<0.2	1.8
Middle																			5.1										
File Rough 15:34 7.9 Middle 4.0 0.6 240 28.8 28.0 8.0 8.2 0.6 7.8 17.8						Surface	1.0	0.4	180	29.3	29.3	8.2	8.2	15.7	15.7	128.1		9.0	8.3	3.0	ļ	5		84				<0.2	1.3
Surface 1.0 0.1 0.0 0.2 0.2 0.3 0.2 0.0 0.1	IM5	Fine	Rough	15:44	7.9	Middle	4.0	0.6	240	28.8	28.8	8.2	8.2	17.8	17.8	108.3	108.4	7.6		4.6	4.4	4	5	88	88	820744	804848	<0.2	2.0
Middle 1.0 0.2 2.04 2.89 2.80 8.1 8.1 1.95 1.						Bottom	6.9	0.4	210	26.9	26.9		8.0	27.5	27.5	75.0	74.9	5.1	5.1	5.7	-	4		91				<0.2	2.0
Mide Mide						Surface					29.0		8.1		16.1		125.2		7.0		-								
Bottom 7.0 0.2 241 26.9 26.9 8.0 8.0 27.6 27.5 87.2 80.4 8.8 5.5 5.8 5.1 6.0 91 91 91 91 91 91 91 91 91 91 91 91 91	IM6	Fine	Rough	15:36	8.0	Middle					28.6		8.1		19.5		98.9	6.9	7.9		4.6		- 5	89	89	821039	805829	<0.2	1.6
No. No.						Bottom	7.0	0.2	241	26.9	26.9	8.0	8.0	27.6	27.5	80.4	83.8	5.5	5.8	5.1	Į	6		91				<0.2	1.1
No. No.						Surface	1.0	0.1	85	29.3	29.3	8.3	8.3	15.9	15.9	129.2	129.2	9.1		3.4		5	>	87				<0.2	1.4
Frie Rough 15.31 9.0 Mildle 4.5 0.2 219 28.6 26.7 26.7 8.0 8.0 26.3 28.2 71.5 71.3 4.9 4.9 5.8 4 91 91 91 91 91 91 91	18.47	Fina	Pouch	15:24	0.0		4.5	0.2	209	28.6		8.0		20.3		89.1		6.2	7.7	5.1	4.8	4		89	80	821220	806027	<0.2	1.7
No. No.	livi/	FILE	Rougii	10.01	9.0											88.8		6.2			7.0		. •	89	33	02 1000	000037	<0.2	1.8
Surface							8.0	0.1	211	26.7		8.0		28.2		71.5		4.9	4.9	5.8	_	4	•	91				<0.2	1.3
Sulfly Rough 15.5 7.6 Million 3.9 1.6 149 28.1 26.2 8.0 6.0 19.7 19.7 19.7 19.7 19.0 4 30.0 6.3 5.2 4.9 3 4 8.9 69 62.639 00.016 0.2 0.2 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6						Surface	1.0	1.6	147	28.7	28.8	8.2	8.2	16.6	16.6	108.8	109.4	7.7	7.0	3.1	þ	5		85				<0.2	1.5
6.8 2.2 150 27.7 21.1 8.0 0.0 24.7 24.1 77.1 76.1 5.3 5.3 6.7 3 92 0.2 1.6	IM8	Sunny	Rough	15:53	7.8	Middle	3.9	1.6	149	28.1	28.2	8.0	8.0	19.7	19.7	90.4	90.8	6.3		5.2	4.9	3	4	89	89	821839	808116	<0.2	1.6
A: Depth-Averaged						Bottom					27.7		8.0		24.7		76.7		5.3		F	3							

1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Nater Qual Nater Qual		toring Res	ults on		18 May 21	during Mid-		le																				
Marting and all all all all all all all all all al	Monitoring	Weather	Sea	Sampling	Water	Camalian Dan	ath ()	Current Speed	Current	Water Te	mperature (°C)		pН	Salin	ity (ppt)					bidity(NTL					Coordinate				Nickel (µg/L)
Martine Mart	Station	Condition	Condition	Time	Depth (m)	Sampling Dep	otn (m)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA Va	lue D	A Value	DA	Value	DA			Value	DA	Value DA
Mathematical Region Mathematical Region						Surface					29.1		8.3		16.3		116.3												1.6
Martin	11.40	C	Madazata	45.50	7.0	8 #: d-dl-														8	5	+ _			000000	000000		.0.0	1.4
Mart Mart	livi9	Suriny	Woderate	15.59	7.9	ivildale					20.1		0.0		20.4					.7	6	7 °		09	622066	000022		<0.2	1.6
Marcha M						Bottom					27.5		8.0		25.4		74.2												1.5
Monthage Monthage						Surface					29.1		8.2		17.1		110.3		2			-	85 85	-					1.4
Part	IM10	Sunnv	Moderate	16:04	7.8	Middle	3.9	2.7	111	28.0	28.0	8.1	8.1	21.0	20.8	83.1	83.6	5.8	0.0).9	3 4	4	90	89	822403	809798	<0.2	<0.2	1.5
1		,																	1.	.8	4	+ '		1					1.4
Martin M						Bottom	6.8	2.3	122	27.7	21.1	8.1	8.1	25.2	25.2	77.0	76.8	5.3	5.3	.2	4		91				<0.2		1.4
Minor Mino						Surface					29.5		8.2		16.9	110.9	110.6	7.7	e = 3	.1		+	86	1					1.6
Marcha M	IM11	Sunny	Moderate	16:15	8.3	Middle					27.6		8.1		22.8		74.8		7			4		89	822050	811468		<0.2	1.6
M12 M12 M14 M14 M15						Bottom		2.7	96	27.6	27.6	8.1	8.1	26.0	26.0	76.1	76.4	5.2	E 2 7	.5	5	1	92	İ			<0.2	.	1.4
Mode Mode																			7										
Mathematical Region Mathematical Region						Surface	1.0	3.3	116	28.7	28.8	8.2	8.2	17.2	17.2	104.8	105.7	7.4	6.4 5	.1	3	1	85	İ			<0.2	.	1.5
Mathematical Registration Mathematical Registration	IM12	Sunny	Moderate	16:21	8.8	Middle					28.2		8.0		21.3		78.4		6			4		88	821465	812037		<0.2	
Series S						Bottom	7.8	3.2	111	28.4	28.4	8.0	8.0		23.6	81.3	81.7	5.6	e 6	.3	4	7	91	1			<0.2	Ī	1.7
SRIA Dumy Moderate Rose Rose Rose Rose Rose Rose Rose Ros						Surface			- 118		20.2	8.2	0.7		107	112.3	112.1	7.8	2	.5	5							=	
Sign Sign Sign Sign Sign Sign Sign Sign											29.2		0.2	18.8	10.7	111.9	112.1	7.7	7.8			1	-					I	=
SRA Pro Came 1 2	SR1A	Sunny	Moderate	16:51	4.7	Middle	2.4	-	-	-	-	-	-	-	-	-	-	-		-	-	- 5	-	1 -	819974	812659	-	1	-
SR2 Surry Moderate 17.00 5.1 Middle 1.00 0.04 90 22.4 29.4 29.4 29.4 29.4 29.4 29.4 29.4						Bottom					28.9		8.1		20.4		98.8					-	-	ł					-
SRA Pro Cam 17:05						Surface	1.0	0.4		29.4	29.4	8.2	8.2	17.3	17.3	115.9	115.7	8.1	1	.6	4	1							1.6
Region R	CDO	C	Madazata	47.05	E 4		1.0	0.4	- 98	29.4		8.2		17.3		115.5		- 8.0	8.1	_	_	+ ,	- 90	00	004400	04.4450	<0.2	.0.0	1.5 - 1.5
SR3 Suny Rough 1548 Suny Rough 1	SRZ	Sunny	Moderate	17:05	5.1	Middle	-	-		- 20.0	-	- 0.4		- 40.0	-	- 00.4	-	-			-	4	- 04	90	821486	814156	- 0.0	<0.2	-
Sany Rough Loop Rough Rough Loop Rough Rough Loop Rough Rough Loop Rough						Bottom					28.8		8.1		19.8	96.1	96.3	6.7				1							
SRAM Proof 15-48 8.4 Model 4.2 2.3 87 28.2 8.1 8.1 8.1 20.0 27.7 87.7 87.5 87.5 87.5 87.5 87.5 87.5 8						Surface					29.3		8.3		16.2		117.0		1			+	-	-			$\overline{}$		-
Note Note	SR3	Sunny	Rough	15:48	8.4	Middle	4.2	2.3	87	28.2	28.2	8.1	8.1	20.6	20.7	89.2	89.0	6.2	7.2	.3	, 5			1.	822155	807549	-		
Second S		,																		.8	4	+ '	-	1			-	ŀ	-
State Fine Calm 16.59 Reference						Bottom	7.4	2.4	100	27.7	27.7	8.1	8.1	25.0	25.0	77.5	76.9	5.3	5.3	.2	4		-	<u> </u>			-		==
SRA PLAN PLAN PLAN PLAN PLAN PLAN PLAN PLA						Surface	1.0		177		29.3		8.2		17.9		131.6	9.1	7.4 5	.1	5	_	-	1			-	.	-
Section Sect	SR4A	Fine	Calm	16:59	8.2	Middle					27.2		8.0		26.1		80.9		_ 5			5	-		817194	807786	-	-	
SRSA Fine Calm 17:16 4.0						Bottom	7.2	0.1	283	27.1	27.1	8.0	8.0	27.0	26.9	78.1	78.3	5.3	E 4 6	.3	5		-	İ			-	. 1	
SR5A Fine Calm 17:16 4.0 Middle 10 0.1 260 25.5 29.5																			6				-				-	=	-
SRS Fine Calin 17.16 4.0 Muddle - - - - - - - - -						Surface	1.0	0.1	260	29.5	29.5	8.2	8.2		19.6		146.3		10.0	.3	4	1	-	1				Ī	
SR6A Fine Calm 17.46 3.2 Middle	SR5A	Fine	Calm	17:16	4.0	Middle	-	+	-	_	-	-	-	-	-	-	-	-	_	- 6.	5	4	-	-	816588	810704	-	-	-
SR6A Fine Calm 17.46 3.2 Surface 1.0 0.1 347 29.1 29.1 82 18.8 19.9 19.8 129.2 128.7 8.8 8.9 6.8 8.9 7.0 17.46 3.2 Middle 1.0 1.0 1.1 349 29.1 29.1 29.1 82.1 82.1 128.7 8.8 8.9 7.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1						Bottom					29.4		8.2		19.8		126.4					_	-				-	Ī	-
SR6A File Calm 17.46 3.2 Middle 1						Surface	1.0	0.1	347	29.1	20.1	8.2	8.2	19.8	10.8	129.2	128 7	8.9	6	.8	3								=
SRA Fife Cam 17.46 3.2 Moole							1.0		319		23.1		0.2	19.9	13.0	128.2	120.7	8.8	8.9			-	-	1			-	ŀ	
SR7 Sunny Moderate 16:29 4.6 Middle 16:2	SR6A	Fine	Calm	17:46	3.2	Middle	-	-	-	-	-	-	-	-	-	-	-	-			2 -	4	-	1 -	817979	814734	-		
SR7 Sunny Moderate 17:56 16.8 Middle 18:4 18: 13: 27.8 27.8 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8						Bottom					29.0		8.1		20.2		109.7					+	-	1			-	ŀ	-
SR7 Sunny Moderate 17:56 16.8 Middle 8.4 1.8 13 27.8 27.8 8.2 27.2 27.2 8.2 8.2 27.3 27.3 94.9 94.9 6.6 6.6 1.4 1.5 5 4 . 823633 823729						Surface	1.0	1.2	46	29.5	29.5	8.2	8.2	17.3	17.3	132.2	132.1	9.2	1	.1	5		-	İ			-		-
SR8 Sunny Moderate 16.29 4.6 Middle 16.29 4.6 Middle 16.29 4.6 Middle 16.29 4.6 Middle 17.50 18.8 Middle 17.50 18.8 Middle 18.4 1.9 13 27.7 27.2 27.2 27.2 27.2 27.2 27.2 27.	CD7	Cur-	Moderate	17.50	16.0		8.4	1.8	13			8.2		23.0		94.9		6.6	1.9	.4 1	. 5	1.	_	1	999699	999700		.	-
SR8 Sunny Moderate 16:29 4.6 Middle 28.8 28.8 8.1 8.1 9.9 9.6 90.6 90.6 63. 8.1 2.2 4.2 4	176	ounny	iviouerate	17:56	10.8	iviiddle			13				6.2			94.8		6.6	2	.4	4] 4	-]	023033	023/29	-	-	
SR8 Sunny Moderate 16:29 4.6 Middle						Bottom	15.8	1.7		27.2	27.2	8.2	8.2	27.3	27.3	92.4	92.1	6.3	0.3	.0	4	<u> </u>		<u> </u>					-
SR8 Sunny Moderate 16:29 4.6 Middle						Surface			-		29.0		8.1		19.5		97.8		1/			4	-	1					-
Bottom 3.6 · · 28.8 28.8 8.1 8.1 19.9 19.9 90.6 90.6 6.3 12.7 5 - · · · · · · · · · · · · · · · · · ·	SR8	Sunnv	Moderate	16:29	4.6	Middle	-	-	-	-	-		-	-	-	-	-	-	6.8	11	1 -	5	-	1.	820408	811614	-		-
3.6 28.8 26.8 8.1 8.1 20.0 19.9 90.6 6.3 6.3 6.3 12.2 4		,			***		3.6		-	28.8		- 8.1		19.9		90.6		6.3	13	2.7		1	-	1				ŀ	
Dord Association of the Control of t	A: Depth-Aver					Bottom			-		28.8		8.1		19.9		90.6	6.3				1	-	1			-		

Water Quality Monitoring Results on 18 May 21 during Mid-Flood Tide Turbidity(NTU) Suspended Solids Total Alkalinity DO Saturation Dissolved Chromium Salinity (ppt) Coordinate Coordinate Nickel (µg/L) Weather Sampling Water Water Temperature (°C) Monitoring Current Speed Oxvaen (mg/L) (maga) Sampling Depth (m) HK Grid HK Grid Station Direction Condition Time Depth (m) (m/s) Average Value Average Average Value Average Value DA Value DA Value DA Value DA (Northing) Value DA Value DA Condition Value Value (Easting) 29.1 0.2 Surface 29.1 8.2 16.8 116.0 1.0 0.2 31 29.1 8.2 16.8 115.3 8.1 3.9 86 <0.2 0.1 41 26.7 4.1 88 1.4 28.3 <0.2 C1 8 1 28.3 90.2 804224 04:58 9.0 Middle 26.7 815634 13 Fine Moderate 88 4.5 26.7 28.3 90.5 6.2 4.0 5 89 <0.2 1.4 0.1 8.1 8.0 0.1 44 25.9 8.1 31.3 74.7 5.1 5.1 5.8 4 90 <0.2 1.3 8.1 5.1 Bottom 25.9 31.3 74.8 74.9 5.9 1.3 47 25.9 <0.2 8.0 0.1 8.1 31.3 4 90 1.0 2.2 29.5 1.6 85 < 0.2 8.3 1.5 Surface 29.5 8.3 14.8 117.1 8.2 1.6 2 85 1.0 2.2 285 282 29.5 8.3 14.8 <0.2 87 1.6 6.2 28.6 8.1 6.1 21.3 88.1 C2 Cloudy Moderate 06:22 124 Middle 28.6 8.1 21.3 88.2 87 825667 806950 1.6 2.6 21.3 88.2 6.1 1.4 3 88 <0.2 6.2 292 28.5 8.1 11.4 2.4 282 27.7 8.1 25.4 78.3 5.4 3.7 4 89 <0.2 1.6 8.1 25.4 78.5 5.4 Bottom 27.7 11.4 2.4 305 27.7 8.1 25.5 78.6 3.5 4 90 <0.2 1.6 2.9 29.4 8.2 7.8 1.2 <0.2 1.5 Surface 29.4 8.2 16.1 112.0 1.0 3.0 86 29.4 8.2 16.2 7.8 1.2 4 85 <0.2 1.5 1.6 6.2 1.4 3 88 88 <0.2 2.9 26.8 8.2 26.7 80.6 5.6 C3 04:18 817824 Cloudy Moderate 12.4 Middle 26.8 8.2 26.7 80.6 88 822088 1.6 3.0 26.7 1.4 11.4 3.1 80 26.6 8.2 30.4 76.2 5.2 2.0 4 90 <0.2 1.8 Bottom 26.7 8.2 30.4 76.3 5.2 11.4 3.3 87 26.7 8.2 30.4 76.3 5.2 1.8 3 1.8 1.0 0.0 29.2 8.2 16.7 2.7 4 87 <0.2 2.3 Surface 29.2 8.2 16.7 133.2 1.0 0.0 27 29.2 8.2 16.7 133.0 9.3 2.8 4 87 <0.2 2.2 807146 IM1 Fine Calm 05:18 5.5 Middle 817968 4.5 0.1 225 28.8 8.2 18.1 116.2 8.1 4.4 4 92 < 0.2 1.2 Bottom 28.8 8.2 18.2 115.9 4.5 0.1 244 28.8 8.2 18.2 115 5 8.1 44 5 93 <0.2 1.2 1.0 29.0 2.9 0.2 8.2 17.1 8.8 86 < 0.2 1.4 Surface 8.2 17.1 124.9 1.0 0.2 31 29.0 8.2 17.1 124.7 8.7 2.9 7 85 <0.2 1.4 2.0 3.8 0.2 16 28.9 8.2 17.4 8.2 4.5 5 88 <0.2 IM2 Rough 05:27 7.6 Middle 8.2 17.4 115.3 818168 806170 <0.2 3.8 0.2 17 28.9 8.2 17.4 7.9 4.6 6 89 27 1 4 6.6 0.1 344 8 1 27.0 82.6 5.7 5.3 90 <0.2 8.1 27.0 83.0 5.7 5.5 5 1.3 6.6 0.1 316 27 1 8 1 27 N 83.3 ٩n <0.2 1.0 0.1 19 29.0 8.1 16.7 8.6 3.1 6 87 < 0.2 1.5 Surface 8.1 16.7 121.9 1.6 1.0 3.1 5 87 0.1 20 29.0 8.1 16.7 121. <0.2 8.5 1.5 1.5 2.1 4.3 4.2 5.8 3.8 0.1 245 8.2 6 88 <0.2 28.9 8.1 17.4 IM3 Fine Rough 05:33 7.5 Middle 28.9 8.1 17.4 116.8 89 818779 805617 5 6 0.1 249 153 89 91 3.8 28.9 8.1 17.4 116. 8.1 <0.2 6.5 27.0 8.1 27.4 80.5 5.5 Rottom 8.1 27.3 80.6 5.5 6.5 0.1 163 27.0 8.1 27.3 80.7 5.5 5.7 5 <0.2 2.0 91 0.5 2.0 1.0 342 29.0 8.2 16.0 116.8 8.2 3.3 6 83 <0.2 Surface 29.0 8.2 16.0 116.6 0.6 315 29.0 8.2 8.2 3.8 5 83 <0.2 2.0 2.0 1.8 4.4 354 5.4 86 <0.2 5 0.5 27.1 8.1 26.8 81.6 5.6 IM4 Fine 05:43 8.8 Middle 27.1 8.1 26.8 81.6 819715 804619 Rough 4.4 0.6 326 27.1 8.1 81.6 5.6 5.3 87 <0.2 26.8 6 7.8 0.5 360 26.4 6.1 4 90 29.2 76.9 5.3 8.1 Bottom 26.4 29.2 77.0 5.3 7.8 0.5 331 26.4 29.2 5.3 6.3 3 <0.2 1.7 2.2 1.0 0.7 29.1 8.3 16.3 8.4 3.2 4 85 <0.2 119.6 Surface 29.1 8.3 16.3 119.5 1.0 29.1 119. 8.4 3.2 5 85 <0.2 0.8 4.0 0.7 27.1 5.5 5.7 5 88 <0.2 1.9 8.1 26.4 5.9 IM5 Fine 05:50 7.9 Middle 27.1 8.1 25.1 85.7 820713 804883 Rough 4.0 0.8 27.0 88 <0.2 4 1.9 6.9 0.6 26.6 8.1 8.1 28.4 5.2 6.3 91 <0.2 26.6 8.1 28.4 75.6 5.2 Bottom 6.9 0.6 26.6 28.5 91 <0.2 1.0 0.1 354 29.1 8.2 17.7 7.9 3.7 5 87 <0.2 2.2 Surface 8.2 17.7 113.1 1.0 0.1 326 29.0 8.2 17.8 79 3.9 5 87 <0.2 1.9 2.0 1.7 3.6 0.3 27.9 6.4 5.4 5 89 <0.2 Fine Rough 05:58 7.2 Middle 8.1 21.7 92.3 821077 805808 <0.2 3.6 0.3 38 27.8 8.1 21.8 92.1 6.4 5.4 5 90 4.8 6.1 6.2 0.3 59 26.7 8.0 28.2 6 91 <0.2 71.0 4.9 6.2 0.3 61 26.7 8.0 28.2 6 92 1.4 1.0 0.1 82 29.1 8.2 16.5 8.5 3.5 5 87 <0.2 Surface 120.8 8.5 3.7 4.7 5 1.0 0.1 85 29.1 82 16.6 120 88 <0.2 1.4 4.5 0.2 79 89 <0.2 28.3 8.1 22.0 90.0 6.2 IM7 06:07 Middle 90.2 821333 806830 Rough 90 4.5 0.2 83 28.4 8.1 22.0 90.3 6.2 4.6 5 7.9 0.2 80 26.7 8.0 28.2 71.3 4.9 5.5 6 92 <0.2 1.2 Bottom 26.7 8.0 28.2 71.5 4.9 7.9 0.2 83 26.7 8.0 5.6 <0.2 1.2 1.0 2.5 101 29.3 8.1 17.4 101. 7.1 1.5 3 85 < 0.2 1.7 Surface 29.3 8.1 17.4 101.3 8.1 17.5 7.0 1.9 <0.2 1.0 2.7 111 29.2 101. 1.5 3 85 8.0 18.0 6.5 3.2 3.6 3 89 <0.2 1.5 4.2 2.6 100 28.8 93.3 28.8 8.0 18.0 93.2 821846 808129 IM8 Cloudy Moderate 05:57 8.3 Middle 88 1.6 93.1 18.0 6.5 88 4.2 109 28.7 8.0 3 2.8 90 1.6 7.3 98 28.6 8.0 21.5 78.3 79.0 4.3 4 <0.2 2.6 5.4 28.7 8.0 21.5 78.7 5.4 Rottom

DA: Depth-Average

Water Quality Monitoring Results on 18 May 21 during Mid-Flood Tide DO Saturation Dissolved Suspended Solids Total Alkalinity Chromium Salinity (ppt) Turbidity(NTU) Coordinate Coordinate Nickel (µg/L) Weather Sampling Water Water Temperature (°C) Monitoring Speed Current Oxvaen (mg/L) (ppm) Sampling Depth (m) HK Grid HK Grid Station Direction Time (m/s) Average Average Value Average Value DA Value DA Value DA Value DA Value DA Value DA Condition Condition Depth (m) Value Value Average Value (Northing) (Easting) 29.4 2.8 Surface 8.2 17.0 2.8 102 29.3 2.0 7.0 3.9 24 95 28.5 8.0 20.9 81.9 5.7 4 87 <0.2 1.5 81.9 808807 IM9 Cloudy Moderate 05:51 8.0 20.9 6.0 822086 1.6 3.9 2.4 102 28.5 8.0 21.0 81.8 5.7 7.6 4 88 <0.2 1.5 6.8 2.8 95 28.4 8.0 22.1 76.9 5.3 8.9 4 89 <0.2 1.5 Bottom 8.0 22.0 77.0 5.3 6.8 2.9 98 28.4 8.0 22.0 77 1 5.3 8.4 4 92 <0.2 1.4 1.0 2.5 110 29.2 8.1 16.9 103. 7.2 1.9 4 85 < 0.2 1.5 Surface 8.1 16.9 103.0 1.0 2.7 113 29.2 8.1 16.9 102.7 7.2 1.9 4 85 <0.2 1.6 4.1 2.6 105 28.6 28.6 8.1 89.1 6.2 1.8 4 89 89 <0.2 1.8 IM10 Cloudy Moderate 05:42 8.2 Middle 8.1 89.0 822380 809800 4.1 8.1 6.2 < 0.2 112 20.2 88.9 7.2 2.9 8.1 5.2 4 1.5 104 28.1 23.6 79.9 5.5 92 < 0.2 Bottom 8.1 23.7 80.0 5.5 3 7.2 5.5 1.6 3.1 110 28 1 8.1 23.7 80 O 5.8 92 **-**0 2 1.0 1.1 29.2 8.2 1.4 4 16.4 1.5 Surface 8.2 16.4 106.9 1.4 1.0 106 7.5 1.4 86 < 0.2 1.2 28 29.2 8.2 16.5 3 69 1.4 6.2 3.0 28.2 3 88 87 <0.2 4.1 8.1 89.8 IM11 Cloudy Moderate 05:31 8.2 Middle 8.1 20.7 89.6 87 822046 811454 4.1 89.4 1.1 23 8.1 20.7 <0.2 1.4 7.2 1.1 24 28.4 8.1 24.5 83.5 5.7 3.6 2 89 8.1 5.7 Bottom 28.5 24.5 83.8 7.2 1.2 26 28.5 8.1 24.5 84.0 5.7 3.5 3 88 <0.2 1.4 29.6 1.8 <0.2 16.1 Surface 29.6 8.2 16.1 110.9 1.0 2.2 29.6 8.2 16.2 110.8 2.0 3 87 <0.2 1.6 4.9 69 28.0 5.6 5.5 87 <0.2 1.5 2.3 8.2 22.8 81.4 3 812035 IM12 Cloudy 05:25 9.8 Middle 28.0 8.2 22.9 81.4 821457 Moderate 4.9 5.6 5.4 87 <0.2 1.4 8.2 2.4 28.0 8.8 2.6 68 27.8 8.2 25.8 83.0 5.7 4.1 3 90 <0.2 1.5 27.8 8.2 25.8 83.1 5.7 Rottom 8.8 2.7 73 27.8 8.2 25.8 83.2 4.2 1.4 29.5 8.1 17.0 7.3 1.8 3 Surface 29.5 8.1 17.0 105.2 1.0 29.4 17.1 1.8 2 2.3 Cloudy Moderate 04:56 Middle 819978 812664 2.3 3.6 29.1 8.1 19.0 97.8 6.8 2.7 3 Bottom 29.1 8.1 19.0 97.8 6.8 3.6 29.1 8.1 19.0 97.8 6.8 2.7 4 1.0 2.1 54 29.4 8.2 16.3 111.8 7.8 1.5 87 <0.2 1.5 Surface 29.4 8.2 16.3 111.7 1.0 2.2 56 29.4 8.2 16.3 111.6 7.8 1.7 2 87 < 0.2 1.6 7.8 SR2 Cloudy Moderate 04:41 4.8 Middle 821465 814155 3.8 3.1 88 2.0 54 28.7 93.1 93.4 6.4 4 <0.2 1.5 93.3 Bottom 21.0 3.0 2.0 59 8.2 21 0 4 15 3.8 28.8 89 r0 2 1.0 2.9 103 29.3 8.2 15.9 7.8 7.8 15 3 Surface 8.2 15.9 111.3 8.2 112 1.5 3 1.0 3.1 29.3 15.9 4.4 3.0 6.2 8.3 9.2 3 102 28.3 8.1 18.4 87.5 SR3 Cloudy Moderate 06:02 Middle 8.1 18.4 87.0 822134 807559 86.5 3.0 106 8.1 18.5 4.4 28.2 7.7 5 5 2.8 104 28.0 8.0 22.9 71.1 4.9 4.9 13.5 14.0 Bottom 28.0 8.0 22.9 71.2 4.9 71.2 2.9 112 28.0 22.9 1.0 0.4 3.7 74 29.0 8.3 18.2 124.8 8.7 5 Surface 29.0 8.3 18.2 124.7 1.0 80 8.7 0.4 28.9 8.3 18.2 124.6 3.9 6 4.8 59 28.7 4.6 4 0.3 7.3 . 8.2 20.0 105.4 SR4A 04:34 8.2 105.2 817190 807817 Fine Calm 9.6 Middle 28.7 20.0 4.8 28.7 8.2 104.9 4.6 5 0.3 61 5.4 5.3 8.6 8.1 28.0 28.0 78.5 78.7 5.4 5.4 5 4 0.2 26.9 8.1 78.6 5.4 Rottom 26.9 28.0 8.6 0.2 26.9 4.4 1.0 0.0 261 29.2 8.2 18.8 6 119.8 8.3 Surface 29.2 8.2 18.8 119.5 1.0 0.0 285 29.1 8.2 18.8 8.3 4.8 5 SR5A 03:44 4.5 Middle 816592 810675 Fine Calm 3.5 0.0 315 29.0 20.4 106.4 7.3 5.8 6 Bottom 29.0 8.2 20.4 106.5 7.3 0.0 340 29.0 7.3 5.6 3.5 1.0 0.1 280 29.3 8.1 17.1 7.9 4.2 4 Surface 29.3 8.1 17.1 113.1 1.0 0.1 284 29.3 8.1 17.1 113.0 7.9 4.4 5 SR6A Fine Calm 03:16 4.6 Middle 817961 814730 3.6 0.1 276 28.9 8.0 18.4 7.1 5.0 5 Bottom 8.0 18.4 102.6 7.1 3.6 0.1 288 28.9 8.0 18.4 7 1 5.2 4 1.0 2.6 64 28.8 8.2 17.8 7.4 0.4 105.1 Surface 17.8 1.0 2.7 68 28.7 8.2 17.9 104.9 7.4 0.4 3 8.4 2.6 62 27.2 8.2 25.8 85.5 5.9 0.8 3 SR7 Cloudy Moderate 03:47 16.8 Middle 8.2 25.9 85.4 823620 823746 8.4 2.7 64 27.1 8.2 25.9 85.3 5.9 1.0 15.8 2.6 60 26.3 8.2 30.5 77.7 5.3 1.8 3 Bottom 8.2 30.4 77.7 15.8 2.8 63 26.3 8.2 30.4 77.7 5.3 1.8 3 1.0 29.0 8.1 19.0 93.0 6.4 2.3 4 Surface 29.0 8.1 19.1 92.9 1.0 28.9 8.1 19.2 92.8 6.4 2.3 4 . . . 820379 811606 SR8 Cloudy Moderate 05:17 4.8 Middle -3.8 28.8 2.2 5 8.1 19.9 91.1 6.3 Bottom 28.8 8.1 19.9 91.1 6.3

DA: Depth-Averaged

Water Quality Monitoring Results on during Mid-Ebb Tide 20 May 21 Turbidity(NTU) Suspended Solids Total Alkalinity DO Saturation Chromium Salinity (ppt) Coordinate Coordinate Nickel (µg/L) Weather Sampling Water Water Temperature (°C) Monitoring Current Speed Oxvaen (mg/L) (maga) Sampling Depth (m) HK Grid HK Grid Station Direction Condition Time Depth (m) (m/s) Average Value Average Average Value Average Value DA Value DA Value DA Value DA (Northing) Value DA Value DA Condition Value Value (Easting) 29.2 0.3 8.3 124.8 1.0 220 29.2 124. 7.1 42 0.2 209 29.1 8.3 16.5 1126 7.9 8.8 6 90 <0.2 1.2 112.4 804264 C1 Fine Calm 18:51 8.3 16.5 8.3 90 815642 4.2 0.2 218 29.1 8.3 16.5 112.2 7.9 8.8 6 90 <0.2 1.2 7.4 0.2 190 28.5 8.1 21.8 105.0 7.2 9.1 6 91 <0.2 1.3 Bottom 8.1 22.3 107.5 7.4 7.4 0.2 205 28.9 8.1 22.8 110.0 7.5 9.0 6 92 <0.2 1.3 1.0 0.3 176 29.2 8.3 12.7 7.9 4.3 4 83 < 0.2 1.5 Surface 8.3 12.7 110.1 <0.2 1.0 0.3 185 29.2 8.3 12.7 110. 7.9 4.3 5 84 1.4 5.8 0.2 166 28.2 8.1 87.3 6.0 3.5 3.6 5 5 87 86 <0.2 1.4 C2 Cloudy Moderate 17:43 11.6 Middle 8.1 22.2 87.3 825661 806939 5.8 0.2 8.1 87.2 173 6.0 10.6 0.3 27.2 8.1 4.9 5 88 1.4 180 27.0 72.6 5.0 < 0.2 Bottom 8.1 27.0 72.7 5.0 72.7 5.0 1.4 10.6 0.3 182 27.2 8.1 27 N 49 89 <0.2 1.0 0.4 29.6 3.8 8.5 86 1.4 14.5 11.0 < 0.2 Surface 8.5 14.5 156.6 1.4 1.0 156.3 11.0 3.8 8 86 <0.2 0.5 51 29.6 8.5 14.5 8.6 1.4 2.6 2.6 8 7 <0.2 27.2 27.2 8.2 6.2 88 88 6.2 26.8 90.8 C3 Cloudy Moderate 19:57 12.3 Middle 8.2 26.9 90.7 88 822095 817804 90.6 0.2 8.2 26.9 <0.2 1.4 11.3 0.1 68 26.1 8.1 30.7 77.7 5.3 5.3 8 90 26.1 8.1 5.3 Bottom 30.7 77.8 11.3 0.2 70 26.1 8.1 30.7 77.8 5.3 5.7 8 90 <0.2 1.4 0.1 178 29.6 119.7 8.3 12.8 6 <0.2 8.5 2.1 Surface 29.6 8.3 12.9 118.9 1.0 0.1 183 29.6 8.3 12.9 118.1 8.4 7.1 6 88 <0.2 2.1 8.5 807127 IM1 Fine Calm 18:27 5.2 Middle 89 817927 4.2 0.1 216 29.3 8.2 16.3 7.6 7.7 7.4 6 90 <0.2 2.8 Bottom 29.3 8.2 16.3 109.3 7.7 4.2 0.1 233 29.3 8.2 16.3 7.4 2.8 0.2 167 29.6 8.3 12.7 8.6 6.5 5 89 <0.2 1.6 1.6 Surface 29.6 8.3 12.7 120.6 1.0 0.2 173 29.6 8.5 6.5 5 89 <0.2 1.6 1.6 1.7 3.5 0.2 132 29.3 7.4 6 <0.2 <0.2 <0.2 90 806169 Fine Calm 18:22 Middle 8.2 15.0 108.3 818181 29.3 7.5 5 7 3.5 0.2 6.0 0.2 141 28.9 8.1 20.1 97.4 6.7 8.0 91 Bottom 28.9 8.1 20.0 98.5 6.8 6.0 0.2 152 28.9 8.1 20.0 99.5 6.9 8.0 6 91 <0.2 1.8 2.3 1.0 0.2 215 29.5 8.3 13.4 7.8 7.6 7 89 <0.2 Surface 8.3 13.2 110.0 1.0 0.2 227 29.5 8.3 7.8 7.6 6 89 <0.2 2.6 2.6 2.0 2.0 3.7 0.1 184 29.3 8.2 15.3 7.7 5 90 <0.2 IM3 18:17 7.4 Middle 8.2 102.2 818793 805615 90 91 <0.2 3.7 0.1 194 29.3 15. 7.8 6.4 28.8 93.3 94.6 3 0.3 122 8.1 20.2 6.4 8.6 8.6 6.4 0.3 132 8.1 20.1 4 <0.2 28.8 92 1.0 0.4 233 29.7 8.3 12.6 119.1 8.5 8.4 77 4 87 <0.2 1.6 Surface 8.3 12.6 118.4 1.0 83 12.6 7.9 4 88 0.4 239 29.6 < 0.2 4.3 156 9.3 6 5 89 89 1.6 1.6 0.2 29.0 8.1 16.0 89.9 6.3 <0.2 IM4 Calm 18:10 Middle 8.1 16.1 89.7 819719 804590 6.3 89.4 9.4 4.3 161 8.1 16.2 0.2 29.0 6 7.6 7.6 0.2 149 28.6 8.0 21.1 89.2 91.4 6.2 10.5 10.1 91 <0.2 1.6 Rottom 28.6 8.0 21.5 90.3 6.3 0.2 160 28.6 91 < 0.2 2.2 1.0 0.3 7.6 87 216 29.6 8.3 12.6 119.2 8.5 5 <0.2 Surface 29.6 8.3 12.6 118.5 1.0 8.3 12.6 117.8 8.4 7.5 5 <0.2 0.3 229 29.6 88 4.0 171 7.1 8.0 5 89 <0.2 1.8 0.2 29.2 15.4 8.2 100.3 IM5 18:04 8.2 15.4 99.2 820736 804889 Fine Calm 8.0 Middle 29.2 89 4.0 183 8.2 15.4 98.1 8.2 5 89 < 0.2 1.9 0.2 29.2 1.6 <0.2 7.0 0.2 157 28.9 29.1 8.1 20.4 104.8 7.2 7.5 8.3 8.3 4 91 8.1 107.3 74 Bottom 29 N 20.4 0.2 167 20.4 <0.2 1.9 1.9 1.0 0.2 298 29.6 8.3 12.8 8.4 7.6 4 87 <0.2 118.6 Surface 29.6 8.3 12.8 118.5 1.0 0.3 322 29.6 8.3 12.8 118. 8.4 7.6 4 87 <0.2 3.9 0.1 235 29.2 8.2 15.6 97.7 6.9 8.0 5 88 <0.2 2.2 17:53 7.8 Middle 29.2 8.2 15.6 96.5 89 821055 805836 IM6 Fine Calm 3.9 0.1 245 29.2 8.2 15.6 95.2 6.7 8.1 89 <0.2 5 1.9 6.8 0.2 192 28.8 20.2 92.9 6.4 8.7 5 90 <0.2 Bottom 28.8 8.1 20.2 94.4 6.5 6.8 207 28.8 8.1 6.6 8.6 0.2 1.0 0.1 254 29.6 8.3 12.6 115.9 7.5 85 <0.2 1.7 Surface 29.6 8.3 12.6 115.6 1.0 0.1 274 29.6 8.3 12.6 115.3 8.2 7.5 6 85 <0.2 1.8 2.5 4.4 0.0 68 29.2 97.7 6.9 8.3 5 87 <0.2 IM7 Fine Calm 17:42 8.8 Middle 29.2 8.2 15.7 97.5 821366 806814 4.4 0.0 69 29.2 8.2 15.7 97.3 6.8 8.4 5 88 <0.2 1.7 7.8 0.1 139 28.6 8.0 21.1 91.6 6.3 10.1 4 92 <0.2 Bottom 8.0 21.3 93.4 6.4 7.8 0.1 147 28.7 8.0 21 / 95.2 6.5 10.0 4 91 <0.2 1.8 1.0 0.1 156 29.5 8.3 13.5 120.5 8.5 41 85 < 0.2 1.5 120.4 Surface 8.3 13.5 1.4 1.0 0.1 159 29.5 8.3 13.5 120.2 8.5 4.1 5 84 <0.2 3.7 0.2 124 29.1 8.2 15.5 104.3 7.4 4.3 4 5 86 86 <0.2 1.4 IM8 Cloudy Moderate 18:08 7.3 Middle 29.1 8.2 15.6 104.1 821848 808117 3.7 0.2 129 29.1 8.2 15.6 103.9 7.3 4.3 < 0.2 6.3 0.2 89 28.6 8.1 19.9 80.7 5.6 5.3 4 88 < 0.2 1.4 8.1 Bottom 28.6 19.9 80.8 5.6 28.6

DA: Depth-Averaged

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

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

Nater Qual					20 May 21 d	during Mid-	Current				1		1		DO 9	aturation	Dissolve	ed		Suspende	ed Solida	Total A	lkalinit.			Chrom	nium	
Monitoring	Weather	Sea	Sampling	Water	Complian D	()	Speed	Current	Water Te	mperature (°C)	1	pΗ	Salin	ity (ppt)		aturation (%)	Oxyge		dity(NTU)	Suspende (mg	su solids /L)	l otal A		Coordinate HK Grid	Coordinate HK Grid	(µg/		Nickel (µg/
Station	Condition	Condition	Time	Depth (m)	Sampling Depth	(m)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value [DA Valu	e DA	Value	DA	Value	DA	(Northing)	(Easting)	Value	DA V	Value D/
					Surface	1.0	0.2	100	29.3	29.3	8.3	8.3	13.3	13.3	118.9	118.8	8.5	4.0		4		85				<0.2		1.4
					Cundo	1.0 3.6	0.2	107 92	29.3 29.1	20.0	8.3	0.0	13.3 14.5		118.6 106.8		8.4	3.0 4.0		5		84				<0.2		1.4
IM9	Cloudy	Moderate	18:13	7.1	Middle	3.6	0.2	95	29.1	29.1	8.2	8.2	14.6		106.6	106.7	7.6	4.3		5	5	86 87	87	822076	808831	<0.2		1.5
					Bottom	6.1	0.2	77	28.5	28.5	8.0	8.0	20.8	20.8	72.8	72.8	5.0	6.1		5	İ	89	İ			<0.2		1.4
					Dottom	6.1	0.3	77	28.5	20.3	8.0	0.0	20.8		72.8	72.0	5.0	6.0		5		89				<0.2		1.5
					Surface	1.0	0.5	109 109	29.2	29.2	8.3	8.3	13.1		117.5 117.4	117.5	8.4	3.9		5	ł	85 84	-			<0.2		1.4
IM10	Cloudy	Moderate	18:21	8.0	Middle	4.0	0.5	121	29.1	29.1	8.2	8.2	15.5	15.5	105.8	105.8	7.5	4.1	J , ,	5	5	87	87	822376	809796	<0.2	.0.0	1.4
IIVITO	Cioudy	Woderate	10.21	0.0	Wilde	4.0 7.0	0.5	123 91	29.1 28.1	23.1	8.2 8.0	0.2	15.5 22.7	10.0	105.7 71.0		7.5 4.9	4.1		4	Ĭ	87 89	0,	022370	003730	<0.2		1.4
					Bottom	7.0	0.4	92	28.1	28.1	8.0	8.0	22.7	22.7	71.0	71.1	4.9	4.9 5.6		4	ł	89				<0.2		1.4
					Surface	1.0	0.8	112	29.3	29.3	8.3	8.3	13.8		117.9	117.8	8.4	4.0		5		85				<0.2		1.4
					Ounace	1.0 4.1	0.9	114 128	29.2	23.3	8.3	0.0	13.9		117.6		8.4	7.9 4.0		5 4		84 87				<0.2		1.4
IM11	Cloudy	Moderate	18:32	8.1	Middle	4.1	0.6	128	29.1 29.1	29.1	8.2	8.2	16.1 16.1	16.1	104.7 104.6	104.7	7.4	4.1		4	4	87	87	822047	811442	<0.2	<0.2	1.3
					Bottom	7.1	0.3	78	27.8	27.8	8.1	8.1	24.6	24.5	83.1	83.2	5.7	6.2		4	İ	89	İ			<0.2		1.5
					Dottom	7.1	0.3	80	27.8	27.0	8.1	0.1	24.5		83.3		5.7	5.8		4		89				<0.2		1.6
					Surface	1.0	0.6	126 132	29.6 29.6	29.6	8.4	8.4	13.8		131.1 130.9	131.0	9.3	4.2		4		84 84	ł			<0.2		1.6
IM12	Cloudy	Moderate	18:38	9.5	Middle	4.8	0.5	108	28.9	28.9	8.2	8.2	17.6	17.4	101.1	101.3	7.1	4.0	5.4	6	5	86	86	821462	812048	<0.2	-0.2	1.6
2	Cioday	Moderate	10.00	0.0	Middle	4.8 8.5	0.5	111 89	28.9 27.1	20.0	8.2 8.1	0.2	17.2 27.6		101.4 78.1		7.1 5.3	4.0		6	Ĭ	87 88		021102	012010	<0.2		1.5
					Bottom	8.5	0.3	92	27.1	27.1	8.1	8.1	27.6	27.6	78.2	78.2	5.3	5.3		6	ł	89	ł			<0.2		1.6
					Surface	1.0	-		29.6	29.6	8.5	8.5	14.2	14.2	142.8	142.5	10.1	3.3		8		-						-
					Cundo	1.0 2.5	-	-	29.6	20.0	8.5	0.0	14.2		142.2	1 12.0	10.0	0.1	_	- 8	ł	-				-	-	-
SR1A	Cloudy	Moderate	19:18	4.9	Middle	2.5	-	-	-	-	-	-	-	-	-	-	-	-	4.4		8	-	-	819976	812661	-		-
					Bottom	3.9	-	-	29.1	29.1	8.3	8.3	17.5		121.3	121.3	8.5	3.5		7	1	-	İ			-		-
						3.9 1.0	0.5	78	29.1 29.6		8.3 8.5		17.5		121.3 144.5		8.5	5.4		7 8		- 86				<0.2		1.5
					Surface	1.0	0.5	83	29.6	29.6	8.5	8.5	13.6		144.5	144.4	10.2	43		8	ł	85				<0.2		1.7
SR2	Cloudy	Moderate	19:35	4.5	Middle		-	-	-		-		-	-	-	-	- 1	0.2	4.6	-	8	-	86	821475	814145	-		· 1.
	,					3.5	0.3	- 84	29.1		8.4		18.6		118.8		8.2	5.0	-	7		87				<0.2		1.5
					Bottom	3.5	0.3	87	29.1	29.2	8.4	8.4	18.5		119.6	119.2	8.3	3.3		8	1	87	i			<0.2		1.5
					Surface	1.0	0.2	216	29.3	29.3	8.3	8.3	13.5		116.7	116.7	8.3	4.0		4		-				-		-
						1.0 4.6	0.2	224 198	29.3 29.1		8.3		13.5 15.7		116.6 108.8		8.3 7.7	3.0 4.0		4	ŀ	-				-	-	-
SR3	Cloudy	Moderate	18:03	9.2	Middle	4.6	0.3	213	29.1	29.2	8.3	8.3	15.7		108.8	108.8	7.7	4.1		5	5	-	-	822156	807576	-		-
					Bottom	8.2	0.1	188	28.4	28.4	8.1	8.1	20.6	20.8	83.7	83.8	5.8	5.8 5.9		5						-		-
						8.2 1.0	0.1	199 68	28.3 29.2		8.1 8.4		21.0 13.3		83.9 126.5		5.8 9.0	5.9 7.2		5 4		-				-		-
					Surface	1.0	0.2	71	29.2	29.2	8.4	8.4	13.3	13.3	126.3	126.4	9.0	7.2		4		-	i			-	F	-
SR4A	Fine	Calm	19:10	9.0	Middle	4.5	0.1	56	29.0	29.0	8.2	8.2	16.9		103.1	103.0	7.2	9.5		6	6	-		817195	807808	-	. [<u> </u>
						4.5 8.0	0.1	56 70	29.0 28.5		8.2 8.1		16.9 20.7		102.8 102.0		7.2 7.1	9.5		7		-	-			-	-	-
					Bottom	8.0	0.1	72	27.9	28.2	8.1	8.1	21.1	20.9	116.1	109.1	7.9	7.5		7		-	i			-	-	-
					Surface	1.0	0.0	99	29.2	29.2	8.3	8.3	13.3	13.3	126.8	126.9	9.0	6.9		5		-				-		-
						1.0	0.0	107	29.2		8.3		13.3		126.9		9.0	9.0 6.9		6	ŀ	-	-			-	-	-
SR5A	Fine	Calm	19:34	3.6	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	7.3	-	6	-	-	816595	810674	-	- -	-
					Bottom	2.6	0.1	110	29.1	29.1	8.3	8.3	14.0		125.1	125.0	8.9	3.9 7.6		6	1	-				-		-
						2.6 1.0	0.1	111 94	29.1 29.2		8.3		13.9		124.8		8.9	7.6		6						-		-
					Surface	1.0	0.0	98	29.1	29.1	8.3	8.3	13.3		122.7	122.7	0.7	3.7		6	ŧ	-	i			-	-	-
SR6A	Fine	Calm	19:58	4.0	Middle	-	-	-	-		-		-	-	-	-	-	-	7.9	-	6	-		817949	814746	-	. [Ξ.
						3.0	0.1	72	29.1		8.3		16.6		122.2		8.6	8.1		- 5	1	-	-			-	-	-
					Bottom	3.0	0.1	73	29.1	29.1	8.3	8.3	16.7	16.7	122.5	122.4	8.6	8.1		5	t	-				-		-
	İ				Surface	1.0	0.6	76	29.3	29.3	8.6	8.6	15.5	15.6	153.8	153.5	10.8	3.6		7		-				-		
						1.0 7.6	0.6	82 40	29.3 27.7		8.6 8.3		15.6 24.5		153.2 102.1		7.0	3.6	_	7	ł	-				-	F	-
SR7	Cloudy	Moderate	20:30	15.2	Middle	7.6	0.4	40	27.7	27.7	8.3	8.3	24.5	24.5	101.9	102.0	7.0	2.9	3.5	7	7	-	-	823614	823727	-	- -	-
					Bottom	14.2	0.4	34	25.9	25.9	8.1	8.1	31.3	31.3	76.0	76.0	5.2	5.2 4.2		8	1	-				-		=
						14.2	0.4	36	25.9 29.8		8.1 8.5		31.3 13.8		75.9 142.6		5.2	4.1		- 8 - 5		-				-	+	
					Surface	1.0	-	-	29.8	29.8	8.5	8.5	13.9		142.0	142.4	10.0	4.1		6	t		t			-	F	-
SR8	Cloudy	Moderate	18:57	4.6	Middle	-	-	-	-		-		-	-	-		1	0.0	4.0	-	6	-		820396	811635	-	. [
	,					-	-	-	29.1		8.2		17.6		108.4		7.6	3.9		- 6	1	-				-	_	-
						3.6	-	-		29.1		8.2		17.6		108.3												

Water Quality Monitoring Results on during Mid-Flood Tide 20 May 21 Turbidity(NTU) Suspended Solids Total Alkalinity DO Saturation Dissolved Chromium Salinity (ppt) Coordinate Coordinate Nickel (µg/L) Weather Sampling Water Water Temperature (°C) Monitoring Current Speed Oxvaen (mg/L) (maga) Sampling Depth (m) HK Grid HK Grid Station Direction Condition Time Depth (m) (m/s) Average Average Value Average Value DA Value DA Value DA Value DA (Northing) Value DA Value DA Condition Value Value Average Value (Easting) 28.9 0.7 Surface 28.9 8.2 13.2 103.6 1.0 0.8 60 28.9 13.2 103.0 7.4 5.1 88 <0.2 1.3 69 28.5 6.2 1.5 0.8 20.4 6.2 89 <0.2 C1 8 1 20.4 893 804232 07:23 8.6 Middle 28.5 89 815624 Mistv Calm 6.2 13 20.4 89.2 6.2 4 89 <0.2 1.5 0.8 72 28.5 8.1 6.2 7.6 0.6 52 27.2 8.1 27.1 79.4 5.4 7.4 3 90 <0.2 1.2 8.1 5.4 Bottom 27.2 27.1 79.3 79.1 5.4 1.2 27.2 7.4 <0.2 7.6 0.7 8.1 91 1.0 3.2 1.5 1.5 1.5 4.4 84 < 0.2 8.3 Surface 29.1 8.2 12.8 107.0 29.1 7.6 4.4 84 1.0 3.3 193 8.2 4 <0.2 3.4 188 28.5 4.2 4 5.7 8.2 6.4 87 92.6 20.4 C2 Cloudy Moderate 08:31 11 4 Middle 28.5 8.2 20.5 92.6 86 825696 806927 3.4 8.2 20.5 92.5 6.4 4.1 5 87 <0.2 5.7 202 28.5 10.4 3.3 188 27.3 8.1 74.8 5.1 6.3 5 88 <0.2 1.3 26.4 8.1 74.9 Bottom 27.3 26.4 10.4 3.5 199 27.3 8.1 26.4 74.9 6.4 5 88 <0.2 1.4 2.5 189 28.9 8.3 3.3 6 <0.2 1.4 8.3 Surface 28.9 8.3 15.7 117.4 1.0 2.8 201 28.9 8.3 15.7 8.3 3.3 6 85 <0.2 1.3 3.1 5 1.2 6.1 187 88 87 <0.2 2.8 28.3 8.3 C3 113.0 817823 Cloudy Moderate 06:06 12.1 Middle 28.3 8.3 23.1 87 822124 1.3 3.0 199 28.3 8.3 11.1 2.7 199 27.0 8.2 27.9 95.2 6.5 3.5 4 89 <0.2 1.3 Bottom 27.0 8.2 27.9 95.3 6.5 11.1 2.8 211 27.0 8.2 27.9 95.3 6.5 3.5 4 89 <0.2 1.3 1.0 0.1 28.8 8.2 9.2 <0.2 1.1 Surface 28.7 8.2 13.0 93.2 1.0 28.6 8.2 13.1 90.8 6.5 9.1 8 86 <0.2 1.0 0.1 28 807129 IM1 Mistv Calm 07:45 5.2 Middle 817967 4.2 0.2 43 28.2 8.0 24.4 96.2 6.6 11.8 6 87 < 0.2 Bottom 28.4 8.0 24.5 99.2 6.8 4.2 0.2 46 28.6 8.1 24.7 102 1 6.9 11.8 6 87 <0.2 1.1 1.0 29 28.9 0.3 8.2 13.4 94.4 6.8 7.2 6 87 < 0.2 1.0 Surface 8.2 13.5 92.5 1.0 0.3 30 28.7 8.2 13.5 90.5 6.5 7.2 7 87 <0.2 1.0 9.5 9.5 3.6 0.6 44 27.8 8.0 21.1 78.7 5.5 8 89 <0.2 1.1 IM2 Misty Calm 07:52 7.2 Middle 8.0 21.4 78.5 89 818141 806151 <0.2 3.6 0.6 47 27.4 8.0 78.3 5.5 8 89 1.2 11 6.2 0.2 13 26.9 8.0 28.8 84.2 5.7 10.9 9 91 <0.2 8.0 28.8 87.2 5.9 6.2 6.1 10.8 1.0 0.2 13 8.0 90.1 8 91 <0.2 26.9 28.8 1.0 0.3 29.0 8.2 12.6 100.9 7.2 8.8 85 < 0.2 1.0 Surface 8.2 12.6 99.6 1.1 1.0 7.1 8.9 5 86 0.3 8.2 98.3 <0.2 29.0 12.6 3.7 5.1 9.8 9.7 6 87 <0.2 1.0 0.3 16 28.6 8.0 18.7 72.8 IM3 Misty Calm 08:00 7.4 Middle 28.5 8.0 18.5 71.4 88 818790 805614 3.7 4.9 6 7 88 91 1.0 0.3 17 28.5 8.0 18.3 69.9 <0.2 6.4 11.6 0.3 26.7 8.0 29.3 69.8 4.8 Rottom 26.7 8.0 29.3 70.0 4.8 6.4 0.3 8.0 29.3 70.2 4.8 11.6 7 1.7 10 26.7 91 <0.2 1.0 0.6 321 7.9 1.0 28.9 8.2 12.1 95.3 6.9 6 86 <0.2 Surface 28.9 8.2 12.1 92.6 0.6 346 29.0 8.2 6.5 7.8 6 87 <0.2 1.1 4.3 8.6 89 <0.2 1.4 342 29.0 5 0.5 8.1 15.1 72.2 5.1 IM4 08:10 8.6 Middle 29.0 8.1 15.1 69.6 819710 804602 Mistv Moderate 4.3 0.5 352 350 28.9 8.0 4.8 8.6 89 <0.2 15.1 5 0.4 26.6 9.7 5 91 1.2 7.9 29.6 66.4 4.5 4.5 Bottom 26.6 7.9 29.5 66.6 7.6 0.5 322 26.6 7.9 29.5 4.5 9.6 4 <0.2 1.2 325 1.1 1.0 0.8 29.0 8.2 12.0 94.5 6.4 87 <0.2 6.8 5 Surface 29.0 8.1 12.0 93.8 1.0 336 29.0 6.7 6.3 5 87 <0.2 0.8 4.0 0.7 346 29.0 8.2 5 88 <0.2 1.5 1.5 8.1 6.3 08:20 IM5 8.0 Middle 29.0 8.1 17.3 89.7 820742 804882 Misty Moderate 4.0 0.7 29.0 89.6 8.1 <0.2 4 1.6 0.6 28.2 7.8 7.8 22.1 4.9 5.3 10.5 10.5 90 <0.2 28.2 7.8 22.1 74.1 5.1 Bottom 77 5 7.0 0.6 28.3 91 < 0.2 1.0 0.1 212 28.9 8.2 11.9 104.4 7.0 4 87 <0.2 1.1 Surface 8.2 11.9 104.4 1.0 0.1 220 28.9 8.2 11 9 104 7.5 7.0 4 88 <0.2 1.6 3.9 0.2 29.0 16.9 94.2 6.6 9.7 4 88 <0.2 Misty Moderate 08:30 Middle 29.0 8.1 16.8 94.2 821055 805851 <0.2 3.9 0.2 81 29.0 8.1 16.8 94.2 6.6 9.7 5 89 85.1 90.8 10.3 10.2 1.1 6.8 0.2 50 28.6 7.9 21.0 5.9 6.3 6 91 <0.2 7.9 88.0 6.1 6.8 0.2 53 28.7 8.0 21 2 91 1.4 1.0 0.0 12 28.9 8.2 11.9 100.1 7.2 8.9 89 <0.2 Surface 11.9 100.0 gg g 1.0 0.0 12 28 9 82 11 9 8.9 89 <0.2 9.5 7 1.6 4.5 0.2 113 90 <0.2 28.8 8.0 17.4 69.8 4.9 IM7 Moderate 08:36 9.0 Middle 8.0 17.4 69.4 821330 806823 Misty 90 4.5 0.2 114 28.8 8.0 17.4 69.0 4.8 9.6 7 8.0 0.2 143 28.3 7.8 21.4 63.4 4.4 11.2 8 91 <0.2 1.5 Bottom 28.3 7.8 21.4 63.4 8.0 0.2 146 28.3 21.4 11.1 <0.2 1.6 1.0 1.2 247 29.1 8.3 13.4 109.4 7.8 4.2 6 84 < 0.2 1.3 Surface 29.1 8.3 13.5 109.3 7.8 1.3 8.3 13.5 <0.2 1.0 1.2 247 29.1 109. 4.2 6 84 1.1 229 29.1 8.2 7.2 4.1 6 87 <0.2 1.4 3.9 16.1 102.8 808162 8.2 16.1 102.8 821814 IM8 Cloudy Moderate 08:03 7.7 Middle 29.1 86 7.2 1.4 4.1 86 3.9 1.2 240 29.1 8.2 16.1 102. 6 7.5 88 1.5 6.7 1.2 224 28.5 8.1 <0.2 20.0 84.5 5.9 6 28.5 8.1 19.9 84.6 Rottom 5.9

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

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

Water Qua			ults on		20 May 21	during Mid-	Flood Tic	de																			
Monitoring	Weather	Sea	Sampling	Water	0	1. ()	Current Speed	Current	Water Te	emperature (°C)		рН	Salin	ity (ppt)		aturation (%)	Dissolved Oxygen	Turbidity	(NTU)	Suspende (mg		Total Alkalinity (ppm)	Cooldinate	Coordinate	Chromium (µg/L)	Nickel (μg/L)
Station	Condition	Condition	Time	Depth (m)	Sampling Dept	th (m)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average V	alue DA	Value	DA	Value	DA	Value DA	HK Grid (Northing)	HK Grid (Easting)	Value DA	Value	DA
					Surface	1.0	1.9 2.1	212 231	29.3 29.3	29.3	8.3 8.3	8.3	13.5 13.5	13.5	114.9 114.8		3.2	4.0		6		85 84			<0.2 <0.2	1.6	
IM9	Cloudy	Moderate	07:56	7.5	Middle	3.8	1.7	212	29.2	29.2	8.3 8.3	8.3	15.7	15.7	109.9	100.0	7.7 7.7	4.0	4.4	6	6	87 86 86	822114	808790	<0.2	1.4	1.5
					Bottom	6.5	1.7	212	28.7	28.7	8.2	8.2	20.1	20.1	92.3	024	6.4	5.2	-	6		88			<0.2	1.4	
					Surface	6.5 1.0	1.8 2.0	224 139	28.7 29.2	29.2	8.2 8.3	8.3	20.0 13.8	13.8	92.5 113.9	442.0	6.4 6.4	5.3 4.2		6		88 84			<0.2 <0.2	1.4	_
IM10	Cloudy	Moderate	07:47	7.8	Middle	1.0 3.9	2.2	149 141	29.2 29.2	29.2	8.3 8.3	8.3	13.8 15.3		113.9 109.6	400.6	7.7 7.9	4.1 3.8	5.0	6	7	85 87 87	822390	809795	<0.2 <0.2 <0.2	1.3	1.4
IIVITO	Cloudy	Woderate	07:47	7.0		3.9 6.8	2.1	148 143	29.2 28.0		8.3 8.1		15.3 23.4	15.3	109.5 78.6	109.0	7.7	4.0 6.9	5.0	7	,	86 88	622390	809795	<0.2	1.5	1.4
					Bottom	6.8 1.0	2.2 1.8	148 207	28.1 29.2	28.1	8.1 8.3	8.1	23.3	23.4	78.9 112.2	78.8	5.4 5.4 5.0	7.1		7		89 84			<0.2	1.4	
					Surface	1.0	1.9	219	29.2	29.2	8.3	8.3	13.7	13.7	112.1	112.2	3.0 7.6	4.0		5		85			<0.2	1.4	
IM11	Cloudy	Moderate	07:33	8.6	Middle	4.3 4.3	1.7 1.7	214 224	29.1 29.1	29.1	8.2 8.2	8.2	16.5 16.6	16.5	102.6 102.3	102.5	7.2	4.3 4.3	4.9	6	6	86 87 86	822079	811468	<0.2 <0.2	1.4	1.4
					Bottom	7.6 7.6	1.9 1.9	219 234	27.8 27.8	27.8	8.1	8.1	24.5 24.4	24.5	72.5 72.5	72.5	5.0	6.3		6 7		88 88			<0.2 <0.2	1.4	
					Surface	1.0	2.3	174 177	29.3 29.3	29.3	8.3	8.3	12.6 12.6	12.6	118.8 118.7		3.5	4.4		7		84 84			<0.2	1.4	
IM12	Cloudy	Moderate	07:25	9.7	Middle	4.9 4.9	2.5 2.6	175 176	29.0 29.0	29.0	8.3 8.3	8.3	18.0 18.0	18.0	112.9 112.8	112.0	7.9 7.9	4.2	6.1	6	6	87 86	821439	812046	<0.2	1.4	1.4
					Bottom	8.7 8.7	2.3	181 184	27.3 27.3	27.3	8.1 8.1	8.1	27.0 26.9	27.0	81.3 81.9	04.0	5.5 5.6	0.7		6		89 88			<0.2	1.4	
					Surface	1.0	-	184	29.2	29.2	8.3	8.3	13.5	13.5	115.9	116.0	3.3	3.5		4		-			-	1.4	_
SR1A	Cloudy	Calm	06:49	4.8	Middle	1.0 2.4	-	-	29.1		8.3		13.5		116.0		8.3	3.4	4.4	5	5		819979	812657		-	
JICIA	Cloudy	Cairi	00.43	4.0		2.4 3.8	-	-	29.1		8.4		15.7		117.2	8	3.3	5.4		5			013373	012001		-	
					Bottom	3.8 1.0	0.2	- 84	29.1 29.1	29.1	8.4 8.4	8.4	15.7 13.4	15.7	117.5 116.8		8.3 8.3	5.4 3.8		5 6		- 86			<0.2	1.4	
					Surface	1.0	0.2	86	29.1	29.1	8.4	8.4	13.5	13.4	116.9	116.9	3.3	3.7		6		86			<0.2	1.4	
SR2	Cloudy	Moderate	06:33	4.4	Middle	-	-	-	-	-	-	-	-	-	-		-	-	4.6	-	7	- 87	821462	814160	<0.2	-	1.4
					Bottom	3.4 3.4	0.1 0.1	60 60	29.1 29.1	29.1	8.4 8.4	8.4	16.3 16.2	16.3	118.3 118.4	118.4	8.3 8.3	5.4	-	7 7		88 88			<0.2 <0.2	1.4	
					Surface	1.0	1.1	35 35	29.1 29.1	29.1	8.3	8.3	14.3	14.3	110.4 110.4		7.8 7.8 7.7	4.2		6		-			-	-	
SR3	Cloudy	Moderate	08:10	9.3	Middle	4.7 4.7	0.9 1.0	31 34	29.1 29.1	29.1	8.3 8.3	8.3	16.6 16.6	16.6	107.9 107.8	107.9	7.6 7.5	4.0	4.6	6	6	-	822150	807588	-	-	-
					Bottom	8.3 8.3	1.5 1.6	30 31	28.1 28.1	28.1	8.1 8.1	8.1	22.5	22.5	78.8 78.9	700	5.4 5.4	5.7 5.5		6		-			-	-	
					Surface	1.0	0.0	80	28.8	28.8	8.2	8.2	13.6	13.6	90.6	00.2	6.5	7.5		7		-			-	-	
SR4A	Misty	Calm	06:59	9.4	Middle	1.0 4.7	0.0	83 92	28.8 27.5	27.5	8.2 8.0	8.0	24.5	24.6	89.7 72.0	74.7	5.0	7.5 8.3	8.7	7	8		817169	807795		-	
					Bottom	4.7 8.4	0.1 0.1	99 36	27.4 27.1	27.1	8.0	8.0	24.6 27.3	27.3	71.4 70.6	70.5	4.9 4.8 4.8	8.2 10.5		8		-			-	-	
					Surface	8.4 1.0	0.1	37 67	27.1 28.9	28.9	8.0	8.2	27.3 16.8	16.7	70.4 109.6		4.8 4.8 7.7	10.4		8		-			-	-	
						1.0	0.1	68	28.9		8.2	0.2	16.7	10.7	109.5		7.7	6.7	-	6		-			-	-	
SR5A	Misty	Calm	06:38	3.6	Middle	2.6	0.1	- 33	28.9	-	8.2	-	18.0	-	108.2		7.5	8.6	7.7	- 6	6	-	816615	810686	-	-	-
					Bottom	2.6	0.1	35	28.9	28.9	8.2	8.2	18.0	18.0	107.0	107.0	7.5	8.9		7		-			-	-	
					Surface	1.0	0.1	42 45	29.1 29.1	29.1	8.2 8.2	8.2	18.3	18.3	107.2 106.1		7.4	4.5 4.0		6 7		-			-	-	
SR6A	Misty	Calm	06:09	4.2	Middle	-	-	-	-	-	-	-	-	-	-			-	6.9	-	8	-	817957	814748		-	-
					Bottom	3.2 3.2	0.0	221 238	29.0 29.0	29.0	8.2 8.2	8.2	20.0	19.9	104.8 104.1	104.5	7.2 7.2	9.5 9.5		9		-			-	-	
					Surface	1.0	2.6	189 189	28.8	28.8	8.4	8.4	17.1	17.1	118.4 118.3	110.4	3.3	2.9		5		-			-	-	
SR7	Cloudy	Moderate	05:28	14.9	Middle	7.5	3.3	196	27.1	27.1	8.2	8.2	27.5	27.5	93.5	02.5	6.4	3.4	3.3	6	6		823629	823757		-	
					Bottom	7.5 13.9	3.3 3.6	208 197	27.1 25.9	25.9	8.2 8.2	8.2	27.5 31.4	31.4	93.4 81.7	82.0	5.6 5.6	3.4 3.6		6 7		-			-	-	
—					Surface	13.9 1.0	3.8	214	25.9 29.8	29.8	8.2 8.3	8.3	31.4 15.2	15.2	82.2 115.6		5.6 5.0 3.1	3.6 4.5		<u>7</u>		-			-	-	
						1.0	-	-	29.8		8.3	0.3	15.2	15.2	115.6	113.0	8.1	4.5		6		-			-	-	
SR8	Cloudy	Moderate	07:17	4.7	Middle	3.7	-	-	29.2	-	8.3	-	15.7	-	114.1		3.0	- 41	4.3	- 6	6	-	820394	811635		-	-
					Bottom	3.7		-	29.2	29.2	8.3	8.3	15.7	15.7	114.1		8.0	4.1		6							

water Qua	lity Monit	toring Res	ults on		22 May 21	during Mid-		<u>e</u>					_		I DC s	aturation	Dio	hod		-	Cuenerda	od Colida	Total All-	olinit ·			Chromis	
Monitoring	Weather	Sea	Sampling	Water	0		Current Speed	Current	Water To	emperature (°C)		pН	Salir	nity (ppt)	008	aturation (%)	Disso Oxy		Turbidity(NTU)	Suspende mg)		Total Alk (ppm		Coordinate	Coordinate	Chromium (µg/L)	Nickel (µg/l
Station	Condition	Condition	Time	Depth (m)	Sampling Dep	oth (m)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	- "	DA	HK Grid (Northing)	HK Grid (Easting)	Value DA	Value DA
					Surface	1.0	0.2	225 240	29.5 29.5	29.5	8.2 8.2	8.2	11.1	11.1	113.7	113.6	8.2 8.1		4.0 4.0		7		87 87				<0.2 <0.2	1.6 1.6
C1	Sunny	Moderate	10:05	8.9	Middle	4.5 4.5	0.3	217	27.8	27.8	8.0	8.0	21.2	21.2	74.2	73.5	5.2	6.7	4.7	4.8	6	6	88 89	89	815597	804245	<0.2	1.5
					Bottom	7.9	0.2	195	25.6	25.6	7.8	7.8	31.5 31.5	31.5	56.0 56.3	56.2	3.8	3.9	5.7	ļ	5		90				<0.2	1.5
					Surface	7.9	0.2	196 135	25.6	29.4	8.0	8.0	11.0	11.0	113.7	113.7	8.2		6.5		6		84				<0.2	1.4
C2	Sunny	Moderate	11:45	11.4	Middle	1.0 5.7	0.2	140 154	29.4 28.2	28.2	8.0 8.1	8.1	11.0 21.4	21.4	113.7 81.0	81.0	8.2 5.6	6.9	6.5 5.5	6.3	6 5	5	84 89	88	825689	806952	<0.2	1.6
	,				Bottom	5.7 10.4	0.5 0.5	166 144	28.2 27.0	27.0	8.1 8.1	8.1	21.4 27.3	27.3	80.9 65.8	65.9	5.6 4.5	4.5	5.6 6.9		5 5		88 92				<0.2	1.4
						10.4	0.5	150 286	27.0		8.1 8.1		27.3 16.7		65.9 123.7		4.5 8.7	4.5	6.9 3.6		5		92 84				<0.2	1.5
					Surface	1.0 6.3	0.4	302 257	29.0 28.0	29.0	8.1 8.1	8.1	16.7 22.3	16.7	123.6 102.9	123.7	8.7 7.1	7.9	3.6 3.0	ŀ	5 4	Ī	85 89				<0.2	1.0
C3	Sunny	Moderate	08:52	12.5	Middle	6.3 11.5	0.2	259 120	28.0	28.0	8.1	8.1	22.2	22.2	102.9	102.9	7.1		3.0 4.2	3.6	4	4	89	89	822125	817787	<0.2 <0.2 <0.2	1.1 1.2
					Bottom	11.5	0.1	122	26.1 26.1	26.1	8.2 8.2	8.2	29.9 29.9	29.9	78.1 78.3	78.2	5.3 5.4	5.4	4.2		4		92				<0.2	1.3
					Surface	1.0	0.1	182 191	27.7 27.7	27.7	7.9	7.9	21.7	21.8	75.7 75.5	75.6	5.3	5.3	5.9 5.9	ŀ	5 4		86 86				<0.2	1.4
IM1	Sunny	Moderate	10:26	4.8	Middle	-	-	-	-	-	-	-	-	-	-	-	-	5.5	-	6.2	-	6	-	87	817942	807114	- <0.2	-
					Bottom	3.8	0.1	151 159	26.5 26.5	26.5	7.8 7.8	7.8	27.6 27.7	27.6	63.1 67.5	65.3	4.4	4.6	6.6 6.4	I	8		87 87				<0.2 <0.2	1.6
					Surface	1.0 1.0	0.1 0.1	217 219	29.3 29.3	29.3	8.1 8.1	8.1	14.6 14.7	14.7	104.1	104.0	7.3 7.3		4.6 4.7		4		87 88				<0.2 <0.2	1.5
IM2	Sunny	Moderate	10:37	6.8	Middle	3.4 3.4	0.1	142 148	26.2 26.2	26.2	7.8	7.8	29.1 29.1	29.1	54.0 54.1	54.1	3.7	5.5	5.5 5.4	5.5	6	6	89 89	89	818139	806149	<0.2	1.5
					Bottom	5.8 5.8	0.2	92	25.9 25.9	25.9	7.8	7.8	30.2	30.2	56.5 56.6	56.6	3.9	3.9	6.3	ļ	8	•	91				<0.2	1.4
					Surface	1.0 1.0	0.1 0.1	177	28.6 28.6	28.6	8.0 8.0	8.0	16.3 16.2	16.3	92.0 92.1	92.1	6.5		6.4		6		87 88				<0.2	1.5
IM3	Sunny	Moderate	10:44	7.0	Middle	3.5	0.1	181	26.1	26.1	7.8	7.8	29.6	29.7	52.0	52.1	3.6	5.1	6.3 7.1	7.5	6	6	89	89	818796	805602	<0.2	1.5
					Bottom	3.5 6.0	0.1	124 86	26.1 25.7	25.7	7.8 7.8	7.8	29.7 31.0	31.0	52.1 56.1	56.4	3.6	3.9	7.1 8.9		6 7		89 91				<0.2	1.4
					Surface	6.0 1.0	0.2	93 221	25.7 29.6	29.6	7.8 8.1	8.1	31.0 10.7	10.7	56.6 107.5	107.4	3.9 7.7		9.0 5.1		7 5		91 87				<0.2	1.8
IM4	Sunnv	Moderate	10:55	8.2	Middle	1.0 4.1	0.1	222 109	29.6 26.2	26.4	8.1 7.8	7.8	10.7 27.7	28.9	107.3 50.4	51.3	7.7 3.5	5.6	5.1 5.9	5.9	5	5	88 89	89	819744	804585	<0.2	1.8
IIVI -1	Suriny	Woderate	10.55	0.2		4.1 7.2	0.0	111 253	26.5 25.7		7.8 7.8		30.0		52.2 50.2		3.6		5.9 6.7	5.5	5 6	3	89 91	09	013744	804383	<0.2	1.8
					Bottom	7.2 1.0	0.1 0.1	267 348	25.8 29.4	25.8	7.8 8.2	7.8	31.1 9.2	31.1	50.2 111.7	50.2	3.4 8.1	3.4	6.7 4.3		6 4		91 92				<0.2 <0.2	1.8 2.0
					Surface	1.0	0.1	320 96	29.4 29.1	29.4	8.2	8.2	9.2 12.6	9.2	111.5 97.0	111.6	8.1 6.9	7.5	4.3 5.7	I	4		92 93				<0.2	1.8
IM5	Sunny	Moderate	11:06	7.3	Middle	3.7 6.3	0.0	102 80	29.1	29.1	8.0 7.8	8.0	12.7	12.6	96.7 64.5	96.9	6.9		5.7 6.5	5.5	4	4	93 93	93	820736	804846	<0.2 <0.2 <0.2	1.8
					Bottom	6.3	0.1	86	27.5	27.5	7.8	7.8	23.3	22.5	64.8	64.7	4.5	4.5	6.6		4 3		93				<0.2	1.6
					Surface	1.0	0.0	233 245	29.9 29.9	29.9	8.1 8.1	8.1	12.0 12.0	12.0	108.3 108.2	108.3	7.7	6.7	5.2 5.2	ŀ	3		88 88				<0.2	1.8
IM6	Sunny	Moderate	11:15	7.0	Middle	3.5 3.5	0.0	79 79	28.7 28.7	28.7	7.9	7.9	17.2 17.2	17.2	81.5 81.6	81.6	5.7 5.7		8.8 8.7	7.6	4	4	89 89	89	821072	805831	<0.2 <0.2	1.7
					Bottom	6.0	0.2	108 117	27.7 27.7	27.7	7.8	7.8	21.9	21.8	65.5 68.9	67.2	4.6 4.8	4.7	8.9 9.0	-	5		90 90				<0.2	1.6
					Surface	1.0	0.1 0.1	115 118	29.4 29.4	29.4	8.1 8.1	8.1	13.6 13.6	13.6	108.5 108.0	108.3	7.7	7.0	4.7 4.7		5 5		86 86				<0.2 <0.2	1.8
IM7	Sunny	Moderate	11:24	8.0	Middle	4.0	0.2	116 125	28.9	28.9	8.0	8.0	16.9	16.9	88.8 88.5	88.7	6.2	7.0	5.7 5.7	5.4	5	5	87 87	88	821349	806837	<0.2	1.0
					Bottom	7.0 7.0	0.1	81 85	27.4 27.4	27.4	7.7	7.7	24.3	24.3	59.8 60.1	60.0	4.1	4.2	5.9 5.9	ļ	6	İ	92				<0.2	1.8
					Surface	1.0	1.9	214	29.6	29.6	8.3	8.3	12.4	12.4	117.6	117.5	8.4		5.3		5		85				<0.2	1.6
IM8	Sunny	Moderate	11:19	7.7	Middle	1.0 3.9	2.0	227	29.6 28.9	28.9	8.3	8.2	12.4	15.7	117.3 93.6	93.6	8.4 6.6	7.5	5.3 5.5	10.6	5 6	6	84 89	89	821853	808138	<0.2	1.7
	,				Bottom	3.9 6.7	2.4	221 215	28.9 27.8	27.8	8.2 8.0	8.0	16.2 21.9	21.9	93.5 63.3	63.4	6.6 4.4	4.4	5.5 21.1		6 7	1	89 93				<0.2	1.6
A: Depth-Aver					Sottom	6.7	2.5	235	27.8	27.0	8.0	5.0	21.9	21.0	63.4	55.4	4.4		21.1		7		92				<0.2	1.6

Water Qual					22 May 21 d	luring Mid-	Current	е			1		1	-	DO 6	turation	Dissolve	-		Suspende	d Solida	Total M	lkalinih.			Chron	nium	
Monitoring	Weather	Sea	Sampling	Water	Sampling Depth ((m)	Speed	Current	Water Te	mperature (°C)		рH	Salin	ity (ppt)		%)	Oxygen	Turbidity	(NTU)	(mg.	L)	(pp		Coordinate HK Grid	Coordinate HK Grid	(µg/		Nickel (µg/L)
Station	Condition	Condition	Time	Depth (m)	Sampling Depth ((111)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value D	A Value	DA	Value	DA	Value	DA	(Northing)	(Easting)	Value	DA	Value DA
					Surface	1.0	2.4	227	29.7	29.7	8.0	8.0	11.8	11.9	120.4	120.1	8.6	5.0		6		84				<0.2		1.8
					Surface	1.0 3.7	2.6	238	29.7	25.7	8.0	0.0	11.9		119.8	120.1	8.5	7 5.0		6		85				<0.2		1.9
IM9	Sunny	Moderate	11:11	7.3	Middle	3.7	2.4	225 238	28.9 28.9	28.9	8.2	8.2	17.6 17.7		98.8 98.7	98.8	6.9	5.0	9.0	5	- 5	88 89	89	822082	808798	<0.2		1.8 1.6
					Bottom	6.3	2.5	229	28.2	28.2	8.1	8.1	20.6	20.6	77.6	77.8	5.4	16.9	İ	4		93				<0.2		1.6
					Dottom	6.3	2.7	247	28.2	20.2	8.1	0.1	20.6		77.9	77.0	5.4	16.9		4		92				<0.2		1.6
					Surface	1.0	3.0	101 104	29.7 29.7	29.7	8.1	8.1	11.4		119.3 118.9	119.1	8.5 8.5	4.9	ł	7		84 85				<0.2		1.7
IM10	Sunny	Moderate	11:02	7.4	Middle	3.7	3.0	100	29.0	29.0	8.1	8.1	17.3		99.9	99.9	7.0	4.7	7.5	5		89	89	822400	809773	<0.2		1.7
IIVITO	Suriny	Woderate	11.02	7.4	iviidale	3.7	3.2	107	29.0	29.0	8.1	0.1	17.2	17.3	99.8	33.3	7.0	4.7	1.5	5	. 0	89	. 09	822400	609773	<0.2		1.7
					Bottom	6.4 6.4	3.1 3.1	102 109	28.3 28.3	28.3	8.1	8.1	20.5	20.5	76.2 76.1	76.2	5.3 5.	3 12.8	ł	5 5		92 93				<0.2		1.7
					Surface	1.0	2.6	98	29.6	29.6	8.0	8.0	10.7		118.6	118.5	8.5	4.6		5		84				<0.2		1.8
					Surface	1.0	2.7	106	29.6	29.0	8.0	0.0	10.7		118.3	110.5	8.5	6 4.6		5	:	85				<0.2		1.8
IM11	Sunny	Moderate	10:15	8.4	Middle	4.2	2.6	97 102	28.8 28.8	28.8	8.2	8.2	18.3 18.3	18.3	94.0 94.0	94.0	6.6	6.5	6.9	5	5	89 89	89	822034	811465	<0.2	<0.2	1.6 1.6
					Bottom	7.4	2.6	94	27.4	27.4	8.1	8.1	25.0	25.1	69.9	69.8	4.8	0.5	t	4		93				<0.2		1.6
					Dottom	7.4	2.6	99	27.4	21.4	8.1	0.1	25.1		69.7	03.0	4.8	9.6		4		93				<0.2		1.6
					Surface	1.0	2.6	94 102	29.8 29.8	29.8	8.0	8.0	9.6		120.6 120.5	120.6	8.7	5.0		7		84 89				<0.2		1.6
IM12	Sunny	Moderate	10:07	10.0	Middle	5.0	2.7	96	28.8	28.8	8.2	8.2	17.9	17.0	94.2	94.2	6.6	6.0	8.3	7	6	89	90	821467	812040	<0.2	-0.2	1.7
IIVI1Z	Suriny	Woderate	10.07	10.0	ivildale	5.0	2.8	98	28.8	20.0	8.2	0.2	17.9	17.5	94.1	34.2	6.6	6.0	0.3	6		89	30	02 1407	812040	<0.2		1.7
					Bottom	9.0 9.0	2.6	94 100	27.3 27.2	27.3	8.1	8.1	26.0 26.0	26.0	66.4 66.5	66.5	4.6 4.	6 13.8	ł	5		93 93				<0.2		1.8
					Surface	1.0	-	-	29.5	29.5	8.2	8.2	11.5	44.5	117.4	117.3	8.4	3.9		5		-				-		-
					Surface	1.0	-	-	29.5	29.5	8.2	0.2	11.5	11.5	117.1	117.3	8.4	3.9	I	5	:	-				-		-
SR1A	Sunny	Calm	09:34	5.5	Middle	2.8	-	-	-	-	-	-	-	-	-	-	-	` -	4.1		5	-	-	819972	812657	-		
					Bottom	4.5	-	-	29.4	29.4	8.1	8.1	13.5		114.3	114.3	8.1 8.	4.4	İ	4		-				-		-
					Bottom	4.5	-		29.4	25.4	8.1	0.1	13.5		114.3	114.3	8.1	4.4		4		-				-		-
					Surface	1.0	0.5	57 60	29.4 29.4	29.4	8.1	8.1	11.5 11.5		121.4 121.4	121.4	8.7	4.3	ł	5		84 84				<0.2		1.7
SR2	Sunny	Moderate	09:17	4.6	Middle	-	-	-	-		-		-	_	-		- 8.	7 -	4.5	-	5	-	86	821472	814173	-	<0.2	- 1.7
SNZ	Suriny	Woderate	09.17	4.0	iviidale			-	-		-		-	-	-		-		4.5			-	. 00	021472	014173	<0.2		1.8
					Bottom	3.6 3.6	0.5	53 55	29.4 29.4	29.4	8.2	8.2	12.6 12.6		117.3	117.3	8.4 8.	4 4.8		5 5		89 88				<0.2		1.6
					Surface	1.0	2.1	225	29.7	29.7	8.1	8.1	12.2		113.2	112.9	8.0	5.5		7		-				-		-
					Surface	1.0	2.2	240	29.7	25.1	8.1	0.1	12.2		112.6	112.9	8.0	9 5.5	I	7		-				-		-
SR3	Sunny	Moderate	11:25	9.0	Middle	4.5 4.5	2.3	225 225	28.6 28.6	28.6	8.1	8.1	18.7 18.7	18.7	82.8 82.7	82.8	5.8	8.0 8.0	7.6	6	6	-	-	822128	807582	-		-
					Bottom	8.0	2.2	229	27.6	27.6	8.1	8.1	24.5	24.5	74.6	74.7	5.1	9.2	İ	5		-				-		-
					Bollom	8.0	2.2	230	27.6	27.0	8.1	0.1	24.6	24.0	74.7	74.7	5.1	9.3		5	,	-				-		-
					Surface	1.0 1.0	0.2	73 75	28.8 28.9	28.9	8.1	8.1	14.9	14.9	94.6 94.7	94.7	6.7	6.6	ł	4 5		-				-	-	-
SR4A	C	Madamia	09:42	9.7	Middle	4.9	0.2	83	26.4	26.4	7.8	7.8	28.2		58.3	58.3	4.0	4 8.4	8.4	5	. 5	-		817182	807818	-	-	-
SK4A	Sunny	Moderate	09.42	9.7	ivildale	4.9	0.2	84	26.4	20.4	7.8	7.0	28.2	20.2	58.3	56.5	4.0	8.3	0.4	5	5	-		01/102	00/010	-	· [
					Bottom	8.7 8.7	0.2	60 65	26.4 26.4	26.4	7.9	7.9	28.3	28.3	59.2 59.5	59.4	4.1 4.	1 10.4	ł	5 6		-				-	_	-
					Surface	1.0	0.1	43	29.3	29.3	8.1	8.1	14.7	1/17	113.0	112.9	8.0	6.5		5		-				-		-
					Guilace	1.0	0.1	46	29.3	23.3	8.1	0.1	14.7	14.7	112.8	112.3	8.0	0 6.4		5		-	.			-	L	-
SR5A	Sunny	Moderate	09:23	3.6	Middle	- :	-	-	-	-	-	-	-	-	-	-	-	-	7.6	-	7	-	-	816597	810712	-		-
					Bottom	2.6	0.0	50	29.2	29.2	8.1	8.1	15.5		108.3	108.2	7.6 7.	8.8	İ	8		-				-		-
					Dottom	2.6	0.0	53	29.2	23.2	8.1	0.1	15.5		108.1	100.2	7.6	8.8		8		-				-		-
					Surface	1.0	0.1	62 67	29.5 29.5	29.5	8.2	8.2	15.0 15.0		120.1 119.5	119.8	8.4	9.5	ł	5		-				-	_	-
SR6A	Sunny	Moderate	08:55	4.4	Middle	-	-	-	-		-		-		-		- 8.	4	9.9	-		-		817963	814721	-		-
SKOA	Suriny	Woderate	00.55	4.4	iviidale		-		-		-		-	-	-		-	-	3.3			-		617903	014721	-	. [
					Bottom	3.4 3.4	0.1	74 78	28.7 28.7	28.7	8.0	8.0	19.7 19.7	19.7	97.2 97.3	97.3	6.7	7 10.2	ł	4		-				-	_	-
			1		Surface	1.0	0.6	61	28.4	28.4	8.0	8.0	20.9		113.8	113.7	7.9	2.8		5		-				-		
					Junatit	1.0	0.7	64	28.4	20.4	8.0	0.0	20.9		113.6		7.9	8 2.9		5		-					F	
SR7	Sunny	Moderate	08:17	14.8	Middle	7.4 7.4	0.2	14 14	26.7 26.7	26.7	8.2	8.2	27.8 27.8	27.8	81.1	81.1	5.6	3.5	3.6	5	- 5	-	-	823627	823760	-	- -	
					Bottom	13.8	0.2	55	25.5	25.5	8.1	8.1	31.8	31.8	70.4	70.4	4.8	8 4.4	İ	4		-				-	t	-
					BULUIII	13.8	0.2	56	25.5	20.0	8.1	0.1	31.8	31.0	70.4	70.4	4.8	4.5		4		-				-		
ļ					Surface	1.0		-	29.8 29.8	29.8	8.1	8.1	11.0		118.6 118.5	118.6	8.5 8.5	4.8	1	4		-				-	F	
,						-	-	-	-		-		-		-		- 8.	5 -	7.9	-	. 5	-			811633	-		-
SPR	Suppy	Moderato	00.50																									
SR8	Sunny	Moderate	09:59	4.8	Middle	3.8		-	29.5		8.1		13.7	-	110.9		7.8	_ 11.0	7.9	- 6		-	-	820384	811633	-	Ļ	-

DA: Depth-Averaged

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

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

Water Quality Monitoring Results on during Mid-Flood Tide 22 May 21 DO Saturation Dissolved Suspended Solids Total Alkalinity Chromium Salinity (ppt) Turbidity(NTU) Coordinate Coordinate Nickel (µg/L) Weather Sampling Water Water Temperature (°C) Monitoring Speed Current Oxvaen (mg/L) (maga) Sampling Depth (m) HK Grid HK Grid Station Direction Condition Time Depth (m) (m/s) Average Average Value Average Value DA Value DA Value DA Value DA Value DA Value DA Condition Value Value Average Value (Northing) (Easting) 29.6 0.4 Surface 29.6 8.1 9.0 109.0 1.0 0.5 44 29.5 9.1 108.8 7.9 4.8 <0.2 1.6 43 28.9 5.0 87 1.4 0.5 90.3 6.3 <0.2 C1 8.0 17.1 90.4 804238 15:11 8.2 Middle 29 N 815611 Sunny Moderate 15 4.1 8.0 17.0 90.4 6.5 5.0 4 87 <0.2 1.4 0.5 29.0 7.2 0.4 39 26.2 7.8 29.2 56.8 3.9 5.3 6 91 <0.2 1.5 26.2 7.8 29.1 56.9 3.9 Rottom 57.0 3.9 1.6 5.3 7.2 0.4 26.2 7.8 29.1 6 91 < 0.2 39 1.0 0.3 86 < 0.2 8.2 1.6 Surface 29.7 8.2 11.2 103.4 5.8 6.8 29.7 7.4 87 1.0 0.3 324 <0.2 28.4 6 1.7 5.7 0.5 8.1 5.7 90 82.1 20.2 C2 Sunny Moderate 13:48 11.3 Middle 28.4 8.1 20.2 82.1 6.0 90 825665 806921 1.6 20.2 82.0 5.7 6.7 5 90 <0.2 5.7 0.5 16 28.3 8.1 10.3 0.3 27.1 8.1 67.5 4.6 5.5 5 94 <0.2 1.7 26.9 8.1 67.6 4.6 Bottom 27.1 26.9 10.3 0.3 27.1 8.1 26.9 67.6 4.6 5.5 5 94 <0.2 1.6 0.3 29.4 9.6 4.3 6 86 <0.2 1.5 Surface 29.5 8.0 15.5 137.1 1.0 0.3 254 29.5 8.0 15.5 137. 9.6 4.4 6 86 <0.2 1.4 3.3 7 1.5 5.8 27.5 90 89 <0.2 0.4 252 8.2 24.5 6.1 C3 87.7 817794 Sunnv Moderate 15:55 11.5 Middle 27.5 8.2 24.5 90 822121 1.5 5.8 0.4 27.5 10.5 0.4 266 25.6 68.4 7.9 9 <0.2 1.6 Bottom 25.6 8.1 31.5 68.4 4.7 10.5 0.4 288 25.6 8.1 31.5 68.4 47 7.9 9 1.5 1.0 0.1 30.0 9.4 5.1 89 <0.2 1.8 Surface 30.0 8.1 9.4 123.2 1.0 30.0 8.1 9.4 123. 8.8 5.2 6 89 <0.2 1.8 0.1 807133 IM1 Sunny Moderate 14:46 4.6 Middle 817964 3.6 0.1 356 30.2 8.1 10.7 122.5 8.7 6.8 8 91 < 0.2 1.8 Bottom 30.2 8.1 10.8 122.4 8.7 3.6 0.1 328 30.2 8.1 10.8 122.2 8.7 6.8 8 91 <0.2 1.8 1.0 0.3 30.1 8.2 9.1 119.9 8.6 4.5 5 91 < 0.2 1.9 Surface 8.2 9.1 119.8 1.0 0.3 12 30.1 8.2 9.1 119.7 8.6 4.5 5 91 <0.2 1.9 3.5 0.3 359 29.7 8.1 12.2 7.9 6.4 5 93 <0.2 1.8 IM2 Moderate 14:38 6.9 Middle 8.1 12.1 111.1 92 818141 806171 1.9 <0.2 1.8 1.9 3.5 0.3 330 29.7 8.1 12.1 110. 7.9 6.3 5 93 26.3 6 59 0.2 327 7.8 28.8 58.6 4.0 7.3 92 <0.2 7.8 28.7 58.7 4.0 5.9 355 58.7 7.3 0.2 7.8 4 0 6 92 <0.2 26.3 28.7 1.0 0.3 358 30.3 8.2 9.8 122 6 8.7 4.5 87 < 0.2 1.9 Surface 8.2 9.8 122.6 1.9 1.0 4.5 7 87 0.4 329 30.3 8.2 9.8 122. 8.7 <0.2 7 7 7 6.7 5.1 87 87 87 <0.2 1.9 3.5 0.3 337 28.6 8.0 17.5 95.2 IM3 Sunny Moderate 14:28 7.0 Middle 28.6 8.0 17.6 94.7 88 818797 805609 5.0 6.6 1.9 3.5 0.3 348 28.6 8.0 94.2 <0.2 6.0 0.3 317 26.6 7.8 27.4 66.2 4.6 5.9 7.7 Rottom 27.5 66.5 4.6 6.0 0.3 344 7.7 27.5 66.7 4.6 6.0 6 1.8 26.6 93 <0.2 2.0 1.9 1.0 0.5 356 29.8 8.1 15.0 121.6 8.5 5.4 6 89 <0.2 Surface 29.8 8.1 15.0 121.4 0.5 328 29.8 5.5 6 89 <0.2 4.1 5.9 <0.2 2.0 0.4 7 90 28.5 8.0 19.4 89.4 6.2 IM4 14:16 8.2 Middle 28.5 8.0 19.5 89.0 819710 804584 Sunny Moderate 4.1 0.5 8.0 88.5 6.0 90 <0.2 28.5 19.5 6.2 0.4 6.4 8 91 2.1 25.9 30.4 3.8 7.7 Bottom 25.9 30.4 56.2 3.9 7.2 0.5 25.9 7.7 30.4 56.4 3.9 6.4 8 <0.2 2.0 1.0 0.7 30.3 8.2 10.3 4.7 6 89 <0.2 127.0 9.0 Surface 30.3 8.2 10.6 126.9 0.8 30.3 8.2 126.8 9.0 4.8 6 89 <0.2 3.3 0.7 28.8 6.1 7 90 <0.2 1.9 7.9 16.2 6.3 IM5 Sunny 14:06 6.6 Middle 28.8 7.9 16.2 89.7 820747 804875 Moderate 3.3 0.7 28.7 6.1 <0.2 9 1.9 5.6 0.5 26.9 7.7 26.6 61.7 4.3 6.6 91 <0.2 26.9 7.7 62.6 4.4 Bottom 26.3 5.6 0.5 17 26.9 26.1 63.5 92 < 0.2 1.0 0.1 23 29.3 8.0 14.3 7.4 4.9 9 85 <0.2 1.9 1.9 Surface 8.0 14.2 103.8 1.0 0.1 24 29.3 8.0 14.2 7.3 5.0 9 85 <0.2 1.9 3.6 0.1 43 27.4 4.2 5.1 7 87 <0.2 Sunny Moderate 13:57 7.2 Middle 7.7 22.8 60.3 821064 805837 <0.2 3.6 0.1 46 27.4 7.7 22.8 60.2 4.2 5.1 7 88 5.3 5.3 2.0 6.2 0.1 50 27.2 7.7 26.6 3.8 6 92 <0.2 7.7 3.9 6.2 0.1 27.3 77 26.5 6 91 1.8 1.0 0.2 150 29.3 8.1 13.5 4.3 6 88 <0.2 Surface 29.3 113.8 8 1 8.2 1.0 0.2 152 29.2 124 114 4.3 88 <0.2 4.5 6 1.6 4.1 132 7.9 89 <0.2 0.2 28.8 16.9 86.7 6.1 IM7 Moderate 13:50 8.3 Middle 7.9 16.9 86.6 821343 806841 Sunny 89 4.1 0.2 141 28.8 7.9 16.8 86.4 6.1 4.5 5 7.3 0.2 142 27.8 7.8 25.0 67.6 4.6 5.5 5 90 <0.2 1.8 Bottom 27.8 7.8 25.0 68.0 4.7 7.3 0.2 142 27.8 68.3 5.5 <0.2 1.9 1.0 0.2 341 30.2 8.0 11.4 133.6 9.5 5.2 7 87 < 0.2 1.7 Surface 30.2 8.0 11.4 133.5 11.4 9.5 1.7 8.0 133. 1.0 0.2 314 30.2 5.2 7 86 < 0.2 8.2 15.0 7.1 5.2 5.2 6 90 <0.2 1.6 3.9 0.2 351 29.0 100.6 29.0 8.2 15.0 100.5 821816 808158 IM8 Sunny Moderate 14:13 7.8 Middle 90 1.7 7.1 90 3.9 357 29.0 8.2 15.0 100. 6 0.2 1.6 6.8 0.1 40 28.6 8.1 18.8 85.8 6.0 10.9 4 94 <0.2 28.6 8.1 18.8 85.9 6.0 Rottom

DA: Depth-Averaged

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

Vater Qual	lity Monit	oring Res	ults on		22 May 21	during Mid-		ide			,																	
Monitoring	Weather	Sea	Sampling	Water			Current Speed	Current	Water Ter	mperature (°C)		рН	Salin	ity (ppt)		aturation %)	Dissol Oxyg		Turbidity(f	NTU)	Suspender (mg/		Total All (ppi		Coordinate	Coordinate	Chromium (µg/L)	Nickel (µ
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	Value	DA	HK Grid (Northing)	HK Grid (Easting)	Value DA	Value
					Surface	1.0	0.3	36	29.8	29.8	8.1	8.1	10.9	10.9	127.0	127.0	9.1		5.4		7		87				<0.2	1.6
						1.0 3.7	0.3	39 65	29.8		8.2 8.2		10.9 13.8		126.9 106.6		9.1 7.6	8.4	5.4 5.4	H	7 6		86 90				<0.2	1.6
IM9	Sunny	Moderate	14:20	7.4	Middle	3.7	0.2	69	29.2	29.2	8.2	8.2	13.7	13.8	106.6	106.6	7.6		5.4	6.9	6	6	91	90	822080	808829	<0.2	1.7
					Bottom	6.4 6.4	0.2	90	28.7 28.7	28.7	8.1 8.1	8.1	18.2 18.2	18.2	78.0 78.1	78.1	5.5 5.5	5.5	9.8 9.8	H	6		94				<0.2	1.7
					Surface	1.0	0.6	297	29.9	29.9	8.0	8.0	11.3	11.3	127.9	127.7	9.1		5.2		6		86				<0.2	1.5
						1.0 4.5	0.6 0.5	324 292	29.9 29.2		8.0 8.2		11.3 14.9		127.5 100.0		9.1 7.1	8.1	5.2 5.6	H	6		86 91				<0.2	1.7
IM10	Sunny	Moderate	14:28	9.0	Middle	4.5	0.6	303	29.2	29.2	8.2	8.2	14.9	14.9	99.6	99.8	7.0		5.6	11.4	6	6	90	90	822377	809783	<0.2	1.6
					Bottom	8.0 8.0	0.5 0.5	295 305	28.0 28.0	28.0	8.0	8.0	22.2	22.3	64.3 64.3	64.3	4.5	4.5	23.3 23.7	H	7		94 94				<0.2	1.7
					Surface	1.0	0.5	274	30.0	30.0	8.0	8.0	11.8	11.7	135.2	135.2	9.6		4.9		5		86				<0.2	1.7
						1.0 4.2	0.5 0.4	300 283	30.0 29.1		8.0 8.2		11.7 15.8		135.1 97.2		9.6 6.9	8.2	4.9 5.2	H	5 6		86 90				<0.2	1.8
IM11	Sunny	Moderate	14:40	8.4	Middle	4.2	0.4	299	29.0	29.1	8.2	8.2	15.8	15.8	96.9	97.1	6.8		5.2	8.6	6	6	91	90	822063	811448	<0.2	1.6
					Bottom	7.4 7.4	0.4	275 275	27.8 27.9	27.9	8.1 8.1	8.1	23.2	23.1	76.8 77.3	77.1	5.3	5.3	15.4 15.9	ŀ	6		94 94				<0.2	1.7
					Surface	1.0	1.8	51	30.1	30.1	8.0	8.1	12.1	12.0	147.6	147.7	10.4		5.1		7		86				<0.2	1.7
						1.0 4.4	1.9	55 50	30.1 29.1		8.1 8.1		12.0 16.5		147.7 111.2		10.4 7.8	9.1	5.0 4.9	F	7		87 90				<0.2	1.7
IM12	Sunny	Moderate	14:47	8.8	Middle	4.4	1.9	50	29.1	29.1	8.1	8.1	16.4	16.4	111.1	111.2	7.8		4.9	6.5	7	7	91	91	821441	812066	<0.2	1.7
ļ					Bottom	7.8 7.8	2.0	53 53	26.9	26.9	8.1 8.1	8.1	27.5	27.4	68.8 69.1	69.0	4.7	4.7	9.6 9.5	ŀ	7		94 95				<0.2	1.6
					Surface	1.0	-	-	30.1	30.1	8.1	8.1	12.6	12.6	150.9	150.8	10.6		5.1		8		-				-	-
						1.0 2.8	-	-	30.1		8.0		12.6		150.6		10.6	10.6	5.1	H	8		-				-	-
SR1A	Sunny	Calm	15:19	5.6	Middle	2.8	-	-	-	-	-	-	-	-	-	-	-		-	6.4	-	8	-	-	819979	812657	-	-
					Bottom	4.6 4.6	-	<u> </u>	29.4 29.4	29.4	8.0	8.0	15.8 15.8	15.8	113.2 113.2	113.2	7.9 7.9	7.9	7.7 7.8	F	8 7		-				-	-
					Surface	1.0	0.3	326	29.8	29.9	8.1	8.1	14.4	14.4	141.1	141.1	9.9		5.4		9		87				<0.2	1.6
						1.0	0.3	332	29.9		8.1	0.1	14.4		141.0		9.9	9.9	5.4	F	8		86				<0.2	1.6
SR2	Sunny	Moderate	15:33	5.2	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.0	-	8	-	88	821486	814153	- <0.2	-
					Bottom	4.2 4.2	0.2	327 355	28.3 28.3	28.3	8.2 8.2	8.2	20.5	20.5	91.5 91.6	91.6	6.4	6.4	12.4 12.6	F	8		90				<0.2	1.6
					Surface	1.0	0.0	231	30.1	30.1	8.0	8.0	11.1	11.1	130.5	130.5	9.3		5.2		7		-				-	-
						1.0 4.4	0.0	246 46	30.1 28.9		8.0 8.2		11.1 15.8		130.4 95.7		9.3 6.8	8.0	5.2 5.2	F	7		-				-	-
SR3	Sunny	Moderate	14:07	8.7	Middle	4.4	0.1	47	28.9	28.9	8.2	8.2	15.8	15.8	95.3	95.5	6.7	-	5.2	8.9	6	6	-	-	822127	807549	-	-
					Bottom	7.7 7.7	0.2	53 57	27.6 27.6	27.6	8.1 8.1	8.1	24.9	24.9	71.1 71.3	71.2	4.9	4.9	16.1 16.1	F	5 5		-				-	-
$\overline{}$					Surface	1.0	0.5	70	30.2	30.2	8.2	8.2	10.4	10.4	126.6	126.7	9.0		5.9		4		-				-	-
						1.0 4.8	0.5	70 76	30.2 30.1		8.2 8.1		10.4 15.0		126.7		9.0	9.1	6.0 6.5	F	5		-				-	-
SR4A	Sunny	Moderate	15:30	9.7	Middle	4.8	0.4	78	30.1	30.1	8.1	8.1	15.1	15.0	130.9	131.1	9.1		6.5	6.5	5	5	-	-	817173	807810	-	-
					Bottom	8.7 8.7	0.3	80 84	26.6 26.5	26.6	7.8 7.8	7.8	27.7	27.8	66.3 68.1	67.2	4.6	4.7	6.9 7.0	F	6		-				-	-
					Surface	1.0	0.1	113	29.9	29.9	8.2	8.2	15.8	15.8	134.3	134.0	9.3		6.3		4		-				-	-
						1.0	0.1	115	29.8		8.2		15.9		133.7		9.3	9.3	6.3	. -	4		-				-	-
SR5A	Sunny	Moderate	15:47	4.1	Middle	-	-	-	-	-	-	-	-	-	-	-	-		-	6.7	-	4	-	-	816579	810698	-	-
ļ					Bottom	3.1 3.1	0.1 0.1	114 125	29.1 29.0	29.1	8.0	8.0	18.1 18.2	18.1	101.3 101.0	101.2	7.0	7.0	7.1 7.2	F	4		-				-	-
					Surface	1.0	0.0	287	29.8	29.8	8.2	8.2	16.0	16.0	132.9	133.0	9.2		7.4		10		-				-	-
						1.0	0.0	314	29.8		8.2	U.L	15.9		133.0	.00.0	9.3	9.3	7.3		9		-				-	-
SR6A	Sunny	Moderate	16:29	4.7	Middle	-	-		-	-	-	-	-	-	-	-	-		-	8.2	-	9	-	-	817940	814720	-	-
ļ					Bottom	3.7 3.7	0.0	269 283	28.8	28.9	8.0	8.0	18.1 17.9	18.0	95.3 95.7	95.5	6.7	6.7	9.0 8.9	ŀ	8		-				-	-
					Surface	1.0	0.0	116	28.7	28.7	8.1	8.1	19.4	19.4	129.5	129.4	5.3		3.6		6		-				-	-
						1.0 7.3	0.0	123 184	28.7		8.1 8.2		19.5 25.1		129.3 94.2		5.3 4.6	5.0	3.6 3.6	F	7 5						-	-
SR7	Sunny	Moderate	16:30	14.5	Middle	7.3	0.1	186	27.3	27.4	8.2	8.2	25.2	25.1	94.1	94.2	4.6		3.6	3.9	6	6	-	-	823623	823748	-	-
					Bottom	13.5 13.5	0.1 0.1	76 77	25.6 25.6	25.6	8.1 8.1	8.1	31.7	31.6	72.2 72.4	72.3	4.3	4.3	4.5 4.5	F	6		-				-	-
					Surface	1.0	-	-	29.6	29.7	8.0	8.0	13.6	13.6	120.9	121.0	8.5		5.4		5		-				-	
ļ					Surface	1.0	-		29.7	23.1	8.0	0.0	13.6	13.0	121.1	121.0	8.5	8.5	5.4	F	5		-				-	-
1								-																				1 - 1
SR8	Sunny	Moderate	14:55	4.4	Middle	3.4	-		29.3	-	8.1	-	14.5	-	113.3	-	8.0		- 5.5	5.4	7	6	-	-	820403	811623		-

DA: Depth-Averaged

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

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

Water Qua	Weather	Sea	Sampling	Water	25 May 21	during Mid-	Current		Water Te	mperature (°C)		pН	Salin	ity (ppt)	DO Saturation	Dissolv		(NTU)	Suspende		Total Alk		Coordinate	Coordinate	Chromiun	m Nickel (µ
Monitoring Station	Condition	Condition	Time	Depth (m)	Sampling Dept	n (m)	Speed (m/s)	Current Direction	Value	Average		Average	Value	Average	(%) Value Average	Oxyge Value	DA Value	DA	(mg.	/L) DA	(ppm Value	n)	HK Grid (Northing)	HK Grid (Easting)	(μg/L) Value D	
					Surface	1.0	0.6	203	27.4	27.4	7.9	7.9	21.7	21.8	70.8	5.0	6.4		10		85				<0.2	0.9
C1	Misty	Calm	12:14	8.0	Middle	1.0 4.0	0.7 0.8	213 191	27.3 26.3	26.3	7.9 7.8	7.8	21.8 26.5	26.6	70.1	3.9	4.4 6.3 8.8	8.0	10 10	9	85 88	87	815618	804257	<0.2	1.0
C1	iviisty	Callii	12.14	6.0		4.0 7.0	0.9	195 214	26.2 25.8		7.8 7.8		26.7 30.5		56.2	3.9	8.1	0.0	9	3	88 89	01	013010	004237	<0.2 <0.2	1.3
					Bottom	7.0	0.6	233	25.8	25.8	7.8	7.8	30.5	30.5	54.9	3.8	9.1		6		89 83				<0.2	1.2
					Surface	1.0	4.3	203	28.9	28.9	8.2	8.2	14.9	14.9	92.9 93.0	6.6	6.4		6		84				<0.2	1.4
C2	Cloudy	Moderate	13:39	11.1	Middle	5.6 5.6	4.3 4.7	196 205	27.8 27.8	27.8	8.1 8.1	8.1	21.5	21.5	74.1 74.2	5.2	9.7	9.9	6	6	86 86	86	825671	806933	<0.2	1.2
					Bottom	10.1 10.1	4.1 4.4	193 202	27.1 27.1	27.1	8.1 8.1	8.1	25.6 25.6	25.6	71.0 71.0	4.9	13.6		6 7		88 89				<0.2	1.3
					Surface	1.0	3.7	75 76	27.6 27.6	27.6	8.2	8.2	23.1	23.1	88.8 88.8	6.2	6.9		10 10		85 85				<0.2	0.9
СЗ	Rainy	Moderate	11:08	12.4	Middle	6.2	3.3	73	27.2	27.2	8.2	8.2	25.3	25.3	84.9	5.9	5.2	6.0	10	9	88	88	822088	817811	<0.2	0.8
					Bottom	6.2 11.4	3.6 3.6	73 72	27.2 26.9	26.9	8.2 8.2	8.2	25.3 26.3	26.3	79.7	5.9 5.5	5.2		10 8		88 90				<0.2	0.9
						11.4 1.0	3.8 0.1	73 300	26.9 26.3		8.2 7.8		26.2		79.8	5.5	5.8 9.5		8		91 84				<0.2	0.8 1.0
					Surface	1.0	0.1	320	26.3	26.3	7.8	7.8	28.2	28.1	56.2 56.3	5.0	5.9 9.6		10		84				<0.2	1.0
IM1	Fine	Calm	12:38	4.4	Middle	-	-	-	-	-	-	-	-	-	-		-	9.8	-	11	-	85	817961	807137	- <0	-
					Bottom	3.4 3.4	0.1	91 99	26.6 26.7	26.7	7.8	7.8	28.3	28.3	56.3 57.5 56.9	3.9	3.9 10.1		11		85 85				<0.2 <0.2	1.1
					Surface	1.0 1.0	0.3	145 148	26.9 26.7	26.8	7.9 7.9	7.9	22.8 22.8	22.8	65.6 64.1 64.9	5.6 5.5	7.3		10 10		85 85				<0.2	1.1
IM2	Fine	Calm	12:45	6.2	Middle	3.1	0.3	133	26.2	26.2	7.8	7.8	27.6 27.6	27.6	50.3 50.4	3.5	9.0	8.4	10	10	89	88	818184	806167	<0.2	1.2
					Bottom	3.1 5.2	0.3 0.1	140 41	26.1 26.0	26.0	7.8	7.8	29.7	29.6	51.0	3.5 3.5	8.9 9.1		10 10		89 90				<0.2 <0.2	1.3
					Surface	5.2 1.0	0.1	44 142	26.0 27.3	27.3	7.8	7.9	29.6	21.2	70.6 70.2	3.6 5.0	9.0		10 13		90 86				<0.2 <0.2	1.3
						1.0 3.2	0.1 0.1	154 143	27.2 26.7		7.9 7.8		21.3 26.1		69.8	5.0	5.4 6.5 7.1		14 14		86 89				<0.2	1.0
IM3	Fine	Calm	12:52	6.4	Middle	3.2	0.1	147	26.7	26.7	7.8	7.8	26.1	26.1	55.4	5.8	7.2	7.6	14	14	89	89	818780	805593	<0.2 <0.2 <0.2	1.2
					Bottom	5.4 5.4	0.1 0.1	102 103	26.8 26.9	26.9	7.8	7.8	26.3 26.2	26.3	55.6 56.4 56.0	3.9	3.9 9.4 9.3		13 13		90 91				<0.2	1.1
					Surface	1.0 1.0	0.2	209 215	28.1 28.1	28.1	7.9 7.9	7.9	16.7	16.7	80.1 80.0 80.1	5.7	6.3		11		86 87				<0.2	1.1
IM4	Fine	Calm	13:13	8.4	Middle	4.2 4.2	0.1 0.1	160 164	27.8 27.8	27.8	7.9 7.9	7.9	20.4	20.5	73.1 72.9 73.0	5.1 5.1	9.4	8.5	13 13	13	89 89	89	819739	804618	<0.2 <0.2	1.1
					Bottom	7.4	0.1	122	27.8	27.8	7.9	7.9	21.1	21.1	72.0	5.0	10.0		15		90				<0.2	1.0
					Surface	7.4 1.0	0.1 1.4	125 217	27.8 28.0	28.0	7.9 7.9	7.9	21.1 17.0	17.0	78.7	5.1	8.2		15 8		90 85				<0.2 <0.2	1.0 0.9
	_					1.0 3.5	1.5 1.1	230 221	28.0 27.8		7.9 7.9		17.0 20.6		78.1	5.6	5.3 8.3	1	7	_	85 89				<0.2	0.9
IM5	Fine	Calm	13:14	7.0	Middle	3.5 6.0	1.1 0.8	234 215	27.8 27.7	27.8	7.9 7.9	7.9	20.8	20.7	70.8 71.1 70.2 70.2	5.0	9.5	9.3	7 5	/	89 90	88	820720	804875	<0.2 <0.2	0.9
					Bottom	6.0	0.8	227	27.7	27.7	7.9	7.9	21.2	21.2	70.3	4.9	10.2		5		90				<0.2	1.0
İ					Surface	1.0	1.2	246 250	28.2 28.2	28.2	7.9 7.9	7.9	18.2	18.3	79.3 78.6 79.0	5.6	5.1		5 5		85 85				<0.2 <0.2	0.8
IM6	Fine	Calm	13:26	6.6	Middle	3.3 3.3	1.0	246 262	27.7 27.6	27.7	7.8	7.8	19.3 19.3	19.3	74.9 74.7	5.3	7.6	7.3	5 5	5	88 88	87	821042	805824	<0.2 <0	0.2 1.1
					Bottom	5.6 5.6	0.8	241	27.6	27.7	7.8	7.8	22.3	22.3	68.3 68.9	40	4.8 9.2 9.3		5		89 89				<0.2	1.1
					Surface	1.0	1.0	252 241	28.4	28.4	7.9	7.9	17.6	17.6	83.2	5.9	6.6		6		86				<0.2	0.9
IM7	F	0.1	40.00			1.0 3.7	1.1	255 246	28.4 28.4		7.9 7.9		17.6 17.6		83.1	5.9 5.8	5.9 6.7	-	5 5	-	86 88		821370		<0.2	0.8
IM7	Fine	Calm	13:39	7.4	Middle	3.7 6.4	1.0 0.9	249 250	28.4 28.4	28.4	7.9 7.9	7.9	17.6 17.6	17.6	82.8	5.8	7.8	7.9	5 5	5	88 90	88	821370	806830	<0.2 <0.2 <0.2	0.2
					Bottom	6.4	0.9	252	28.3	28.4	7.9	7.9	17.6	17.6	84.3	6.0	9.1		5		90				<0.2	0.9
					Surface	1.0 1.0	0.9	25 26	28.6 28.6	28.6	8.2	8.2	16.5 16.5	16.5	90.1 90.1	6.4	7.2		7		85 84				<0.2	1.3
IM8	Cloudy	Moderate	13:02	7.5	Middle	3.8 3.8	1.1	19 19	28.2 28.2	28.2	8.1 8.1	8.1	18.3 18.3	18.3	82.2 82.1 82.2	5.8 5.8	9.1	9.0	10 10	9	86 87	87	821822	808151	<0.2 <0.2	0.2 1.2
					Bottom	6.5 6.5	0.9	11	28.2	28.2	8.1	8.1	18.6	18.6	81.9 81.9	50	5.8 10.6		11		90				<0.2	1.1
DA: Depth-Ave	raged					0.0	1.0	- 11	20.2		j 0.1		10.0		01.9	0.0	10.5				90				<0.∠	

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

Water Qua			ults on		25 May 21 d	during Mid-	Ebb Tid	е																				
Monitoring	Weather	Sea	Sampling	Water			Current Speed	Current	Water Te	mperature (°C)	р	Н	Salini	ity (ppt)		aturation (%)	Dissolved Oxygen	Turbidity(NTU)	Suspende (mg.		Total Al		Coordinate	Coordinate	Chromiu (µg/L)	Mickel ((µg/L)
Station	Condition	Condition	Time	Depth (m)	Sampling Depth	(m)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value DA	Value	DA	Value	DA	Value	DA	HK Grid (Northing)	HK Grid (Easting)		DA Value	DA
					Surface	1.0	2.2	67	28.4	28.4	8.1	8.1	17.5	17.5	85.8	85.8	6.1	7.8		9		84				<0.2	1.1	_
1140	011		40.50	7.0		1.0 3.5	2.4	69 60	28.4 28.3		8.1 8.1		17.5 18.1		85.7 83.4		6.0 5.9 6.0	7.8 8.6		9		84 86		000404		<0.2	1.1	
IM9	Cloudy	Moderate	12:56	7.0	Middle	3.5	2.5	62	28.3	28.3	8.1	8.1	18.1	18.1	83.3	83.4	5.9	8.7	8.6	9	9	86	87	822104	808820	<0.2	0.2	1.1
					Bottom	6.0	2.6	55 55	28.2 28.2	28.2	8.1 8.1	8.1	18.5 18.6	18.5	81.8 81.7	81.8	5.8 5.8	9.4		9 8		90 90				<0.2 <0.2	1.1	
					Surface	1.0	2.0	61 67	28.8 28.8	28.8	8.2 8.2	8.2	16.5 16.5	16.5	91.4 91.3	91.4	6.4	6.9		7		85 89				<0.2 <0.2	1.2	
IM10	Cloudy	Moderate	12:45	7.1	Middle	3.6	2.0	53	28.2	28.2	8.1	8.1	18.5	18.5	81.5	81.6	5.7	8.8	9.0	7	8	87	88	822388	809772	<0.2	1.2	1.2
	,					3.6 6.1	2.2	56 38	28.2 27.9		8.1 8.1		18.5 19.9		81.6 77.2		5.7	8.8 11.3		7 9		87 90				<0.2	1.2	
					Bottom	6.1	2.3	38 56	27.9	27.9	8.1	8.1	19.9	19.9	77.3	77.3	5.4	11.3		9		90				<0.2	1.2	
					Surface	1.0	2.5 2.5	56	28.9 28.9	28.9	8.2	8.2	16.3 16.3	16.3	96.9 96.8	96.9	6.8	6.5 6.5		8		84 84				<0.2	1.2	
IM11	Cloudy	Moderate	12:30	7.3	Middle	3.7 3.7	2.6	49 50	28.2 28.2	28.2	8.1	8.1	18.6 18.6	18.6	82.3 82.3	82.3	5.8	9.5 9.6	10.3	9	9	87 87	87	822037	811441	<0.2	0.2 1.2	1.2
					Bottom	6.3	2.4	35	27.9	27.9	8.1	8.1	20.2	20.2	77.3	77.3	5.4	14.8		10		89				<0.2	1.1	
						6.3 1.0	2.5	38 53	27.9 28.2		8.1 8.1		20.2		77.3 83.0		5.4	14.7 10.6		10 7		90 85				<0.2	1.2	
					Surface	1.0	2.8	55	28.2	28.2	8.1	8.1	18.7	18.7	82.9	83.0	5.8	10.7		6		84				<0.2	1.1	
IM12	Cloudy	Moderate	12:19	9.2	Middle	4.6 4.6	2.7	47 49	27.9 27.9	27.9	8.1 8.1	8.1	20.8	20.8	75.3 75.4	75.4	5.3	11.2 11.0	11.4	14 14	12	87 87	87	821437	812029	<0.2	0.2 1.1	1.1
					Bottom	8.2 8.2	2.7	33 36	27.6 27.6	27.6	8.1	8.1	22.7	22.7	70.8 70.9	70.9	4.9 4.9	12.5 12.6		15 16		90				<0.2	1.2	
					Surface	1.0	-	-	28.4	28.4	8.2	8.2	18.6	18.6	87.7	87.6	6.2	7.6		8		-				-		
SR1A	Cloudy	Moderate	11:57	5.4	Middle	1.0 2.7	-	-	28.3		8.2		18.6		87.4		6.1	7.6	8.8	- 8	10	-		819971	812660	-	-	
SKIA	Cibudy	Woderate	11.57	3.4		2.7 4.4	-		28.1		8.2		20.6	•	84.1		5.9	10.1	0.0	- 11	10	-		019971	812000	-		•
					Bottom	4.4	-		28.1	28.1	8.2	8.2	20.6	20.6	84.2	84.2	5.9	10.0		11		-				-	-	
					Surface	1.0	0.5	83 89	28.1 28.1	28.1	8.2	8.2	20.3	20.3	85.4 85.5	85.5	6.0	8.7 8.7		10 10		85 85				<0.2	1.1	
SR2	Cloudy	Moderate	11:41	3.7	Middle			-	-	-	-	-	-	-	-	-	- 6.0	-	9.7	-	13	-	86	821475	814154	- <(0.2	1.1
					Bottom	2.7	0.2	76	27.8	27.8	8.2	8.2	22.0	22.0	80.9	81.0	5.6 5.6	10.7		16		87				<0.2	1.1	
						2.7 1.0	0.2	76 26	27.8 28.5		8.2		22.0 17.0		81.0 87.7		5.6	10.8 7.7		16 11		87	-			<0.2	1.1	
					Surface	1.0	0.7	27	28.4	28.5	8.1	8.1	17.1	17.1	87.7	87.7	6.2	7.8		11		-				-	-	
SR3	Cloudy	Moderate	13:09	8.4	Middle	4.2 4.2	1.0	18 18	28.2 28.2	28.2	8.1 8.1	8.1	18.5 18.5	18.5	81.6 81.7	81.7	5.8	8.6 8.6	8.8	10 10	9	-	-	822135	807566	-		-
					Bottom	7.4 7.4	0.7	12 13	28.1 28.1	28.1	8.1	8.1	19.0	19.0	79.6 79.6	79.6	5.6 5.6	10.0		6 7		-				-	-	
					Surface	1.0	0.1	250	28.0	28.0	7.9	7.9	19.8	19.8	73.2	73.0	5.1	7.3		8		-				-	-	
SR4A	Mint	Calm	44.50	0.0		1.0 4.5	0.1	254 61	28.0 26.3		7.9 7.8		19.7 28.0	28.0	72.8 54.2	54.3	5.1 5.7 5.4	7.2	0.4	8 10	10	-		817173	807827	-	-	
SR4A	Misty	Cairii	11:53	9.0	Middle	4.5 8.0	0.1	62 70	26.3 26.6	26.3	7.8 7.8	7.8	28.1 28.2		54.4 57.1		5.8	10.0 10.8	9.4	10 11	10	-	-	01/1/3	00/02/	-		
					Bottom	8.0	0.2	76	26.8	26.7	7.8	7.8	28.1	28.1	57.9	57.5	4.0	10.8		11								
					Surface	1.0	0.1	15 15	28.7 28.7	28.7	8.0	8.0	17.4 17.4	17.4	88.9 88.6	88.8	6.2	10.0		9		-				-	-	
SR5A	Misty	Calm	11:36	3.6	Middle	-	-		-	-	-	-	-	-	-	-	6.2	-	10.0	-	10	-		816607	810697	-		
					Bottom	2.6	0.0	95	28.7	28.7	8.0	8.0	17.5	17.5	88.4	88.7	6.2	10.0		11		-				-	-	
						2.6 1.0	0.0	97 100	28.7 28.1		8.0		17.5 19.2		88.9 85.1		6.2	10.0		11 5		-				-	+-+	
					Surface	1.0	0.1	102	27.9	28.0	8.0	8.0	19.3	19.2	84.9	85.0	6.0	9.0		5		-				-	-	
SR6A	Misty	Calm	11:07	4.4	Middle	-	-		-	-	-	-	-	-	-	-	-	-	9.7	-	6	-	-	817966	814750	-		-
					Bottom	3.4 3.4	0.0	1	27.2 27.2	27.2	7.9 7.9	7.9	25.4 25.4	25.4	74.4 74.7	74.6	5.1 5.2	10.4		6		-				-	-	
					Surface	1.0	3.0	122	27.6	27.6	8.2	8.2	23.7	23.7	92.0	92.1	6.4	5.0		6		-				-		_
007	0		40.00	47.0		1.0 8.7	3.0	127 123	27.6 27.0		8.2 8.2		23.7 25.9		92.1 81.9		6.4 5.6	5.0		6 8		-		000007		-	-	
SR7	Cloudy	Moderate	10:20	17.3	Middle	8.7	3.1	127	27.0	27.0	8.2	8.2	25.9	25.9	81.9	81.9	5.6	5.5	6.1	8	8	-	-	823627	823764	-	· =	-
					Bottom	16.3 16.3	3.1 3.4	120 126	26.1 26.1	26.1	8.1	8.1	29.4 29.4	29.4	74.1 74.2	74.2	5.1 5.1	7.8		9 8		-				-	-	
					Surface	1.0		-	28.8 28.8	28.8	8.2	8.2	17.1 17.2	17.2	95.3 95.1	95.2	6.7	7.3		8		-	1			-	-	
SR8	Cloudy	Moderate	12:09	5.2	Middle	-	-	-	-	-			-		-		6.7	-	8.9	-	10	-	-	820369	811643	-	_	
					Bottom	4.2	-	-	29.2	29.2	8.2	82	18.3	19.7	94.0	94.0	6.5	10.5		13						-	-	
DA: Depth-Aver	nand .				Bottom	4.2	-	-	29.2	23.2	8.2	8.2	18.2	18.2	94.0	54.U	6.5	10.4		12		-				- 1		

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

Water Qua					25 May 21	during Mid-	Current	ae	I		1	-11		** · (t)	DO Saturation	Dissolved	T 410	(A.ITL.I)	Suspende	d Solids	Total All	kalinity	0	0	Chromiun	m Lyen are
Monitoring Station	Weather	Sea	Sampling	Water	Sampling De	pth (m)	Speed	Current Direction	Water Te	mperature (°C)		pH	Salir	ity (ppt)	(%)	Oxygen	Turbiaity		(mg/	L)	(ppi	m) '	Coordinate HK Grid	Coordinate HK Grid	(µg/L)	Nickei (µg
Station	Condition	Condition	Time	Depth (m)			(m/s)		Value	Average		Average	Value	Average	Value Average	Value D		DA	Value	DA	Value	DA	(Northing)	(Easting)	Value D	
					Surface	1.0	0.3	46 46	28.0 27.9	28.0	7.9 7.9	7.9	19.1	19.1	78.1 77.7	5.5	7.7		4		89 89				<0.2	1.1
C1	Fine	Calm	18:02	8.0	Middle	4.0	0.2	34	27.0	27.0	7.8	7.8	24.4	24.4	61.7	4.3	8.5	8.8	5	6	92	91	815601	804231	<0.2	1.0
						4.0 7.0	0.2	36 45	26.9 26.6		7.8 7.8		24.5 26.3		b1.b	4.3 3.8	8.4		5 9		92 93				<0.2	1.0
					Bottom	7.0 1.0	0.2 3.3	45 34	26.5 28.8	26.6	7.8	7.8	26.6	26.5	54.5 54.5 54.4	3.8 3.	10.4		8		93 84	_			<0.2	1.3
					Surface	1.0	3.6	34	28.8	28.8	8.1	8.1	12.9 12.9	12.9	84.4	6.1	6.1		5		83				<0.2	1.4
C2	Cloudy	Moderate	17:10	11.6	Middle	5.8 5.8	3.6	28 30	27.8 27.8	27.8	8.1 8.1	8.1	20.5	20.4	70.7 70.7	5.0	8.2 8.5	8.4	5 4	5	86 86	86	825676	806941	<0.2	0.2 1.7 1.
					Bottom	10.6	3.8	33	27.3	27.3	8.1	8.1	23.5	23.5	67.0	4.7	10.6		4		88	,			<0.2	1.6
					Surface	10.6	3.9	33 142	27.3 28.6	20.0	8.1		23.5 18.9	40.0	100.5	4.7 4. 7.0	4.2		7		88 85	\rightarrow			<0.2	1.6
						1.0 5.8	3.5 3.2	142 144	28.6 27.4	28.6	8.3 8.1	8.3	19.0 23.6	18.9	100.5 100.4 74.2	7.0 5.2 6.	1 4.3		7		85 88	:			<0.2	1.3
C3	Cloudy	Moderate	19:17	11.5	Middle	5.8	3.3	156	27.4	27.4	8.1	8.1	23.6	23.6	74.3	5.2	6.1	6.6	6	6	88	88	822118	817816	<0.2	1.3
					Bottom	10.5 10.5	3.3	136 138	27.0 27.0	27.0	8.2	8.2	25.6 25.6	25.6	75.0 75.4 75.2	5.2 5.3	9.3		5 6		90 90				<0.2	1.3
					Surface	1.0	0.1	354	27.0	27.0	7.9	7.9	24.7	24.7	65.1	4.5	7.2		6		85	Ħ			<0.2	1.2
IM1	Fine	Calm	17:43	4.6	Middle	1.0	0.1	326	27.0		7.9		24.7		65.2	4.5	7.3	8.1	6	_	86	88	817950	807138	<0.2 - <0	0.2
IIVI	rille	Callii	17.43	4.0		3.6	0.1	- 28	26.3		7.8		28.4		52.9	3.6	, 9.0	0.1	5	5	- 91	00	817930	007130	<0.2	1.2
					Bottom	3.6	0.1	29	26.3	26.3	7.8	7.8	28.3	28.3	53.6	3.7	9.0		4		91				<0.2	1.3
					Surface	1.0	0.1	325 340	27.2 27.0	27.1	7.8	7.8	24.0	24.1	65.0 64.4 64.7	4.5	8.9		5		85 85				<0.2	1.4
IM2	Fine	Calm	17:36	6.4	Middle	3.2 3.2	0.1 0.1	357 338	26.5 26.5	26.5	7.8 7.8	7.8	26.2 26.2	26.2	53.0 52.8	4.4	9.5 9.5	9.4	5	6	89 90	88	818173	806159	<0.2	0.2 1.0 1.
					Bottom	5.4	0.2	42	26.2	26.2	7.8	7.8	28.8	28.7	53.4	4.3	9.8		6		90				<0.2	1.1
			l			5.4 1.0	0.2	44 312	26.2 27.5		7.8 7.9		28.6		54.2	4.3 4. 4.9	9.7		7		91 88	\rightarrow			<0.2	1.1
					Surface	1.0 3.4	0.1	317 344	27.6 26.5	27.6	7.9 7.8	7.9	21.7 27.0	21.9	69.7	4.9 4.5	5.4		6		88 90	:			<0.2	1.0
IM3	Fine	Calm	17:28	6.8	Middle	3.4	0.1	316	26.5	26.5	7.8	7.8	27.1	27.1	50.2	4.5	7.0	7.1	6	6	90	90	818781	805570	<0.2	1.1
					Bottom	5.8 5.8	0.1	37 39	26.0 26.0	26.0	7.7	7.7	29.6	29.5	48.5 48.7 48.6	4.3 4.3	8.9		6		91 91				<0.2	1.1
					Surface	1.0	0.1	337	28.5 28.4	28.5	7.9 7.9	7.9	17.4 17.4	17.4	82.4 82.2 82.3	5.8	6.2		5		91				<0.2 <0.2	1.2
IM4	Fine	Calm	17:19	8.0	Middle	1.0 4.0	0.1	342 4	27.4	27.3	7.9	7.9	20.4	20.4	71.6	5.1	8.2	Ω 1	5 8	7	87 89	90	819742	804605	<0.2	1.2
1101-4	Tille	Odilli	17.13	0.0		4.0 7.0	0.1	4 31	27.1 26.5		7.9 7.8		20.4		70.5	5.0 3.9	8.2 9.9	0.1	8	,	90 91	30	013742	004003	<0.2	1.3
					Bottom	7.0	0.2	31	26.5	26.5	7.8	7.8	27.3	27.3	58.3	4.0	9.8		9		91				<0.2	1.2
					Surface	1.0	0.1	302 305	28.2 28.2	28.2	7.9	7.9	18.6 18.6	18.6	78.4 78.3	5.5 5.5 5.5	5.5		7		86 87				<0.2	1.1
IM5	Fine	Calm	17:12	7.4	Middle	3.7	0.1 0.1	290 300	28.2 28.2	28.2	7.9 7.9	7.9	18.6 18.6	18.6	78.1 78.1	5.5 5.5	8.1 8.1	8.2	6	6	90 90	89	820732	804871	<0.2	0.2 1.2 1.
					Bottom	6.4	0.0	132	28.2	28.2	7.9	7.9	18.5	18.5	78.7	5.5	11.1		4		91				<0.2	1.1
						6.4 1.0	0.0	138 193	28.2 28.4		7.9		18.5 17.8		78.7	5.5	11.0 5.6		4 5		91 86	=			<0.2	1.2
					Surface	1.0 3.5	0.1 0.1	207 213	28.4 28.4	28.4	7.9 7.9	7.9	17.8 17.8	17.8	83.9	5.9 5.9	E 7		5		86 89				<0.2	1.0
IM6	Fine	Calm	17:07	7.0	Middle	3.5	0.1	213	28.4	28.4	7.9	7.9	17.8	17.8	83.7	5.9	7.5	7.6	5	5	89	88	821038	805842	<0.2	1.1
					Bottom	6.0	0.1	236 238	28.3 28.3	28.3	7.9	7.9	17.8	17.7	83.8 84.0 83.9	5.9 5.9	9.7		5		90 90				<0.2	1.0 0.9
					Surface	1.0	0.2	221	28.4	28.4	7.9	7.9	16.0	16.1	89.7	6.4	8.0		6		86				<0.2	0.9
IM7	Fine	Colon	47.04	0.0	Middle	1.0 4.0	0.2	239 243	28.4 28.2	20.2	7.9 7.9		16.1 18.2	40.0	89.4 81.1 81.1	6.4 5.7 6.	9.1	0.0	6 5	-	86 89		821367	000054	<0.2	0.9
IM7	Fine	Calm	17:01	8.0	Middle	4.0 7.0	0.1 0.1	264 80	28.2 28.3	28.2	7.9 7.9	7.9	18.2 18.1	18.2	81.1	5.7 5.9	9.1	9.2	5 4	5	89 91	89	821367	806854	<0.2 <0.2	1.0
					Bottom	7.0	0.1	80	28.3	28.3	7.9	7.9	18.0	18.0	83.6	5.9	10.4		4		91				<0.2	1.0
					Surface	1.0	2.4	8	29.1 29.1	29.1	8.2	8.2	15.2 15.2	15.2	96.2 96.1 96.2	6.8	4.9		5		85 84				<0.2	1.5
IM8	Cloudy	Moderate	17:31	7.7	Middle	3.9	2.5	9	28.5	28.5	8.1	8.1	17.6	17.6	84.6	6.0	6.4	6.4	5	5	87	87	821826	808142	<0.2	1.4
					Bottom	3.9 6.7	2.6 2.4	9 12	28.5 28.3	28.3	8.1 8.1	8.1	18.2	18.2	84.3 82.9 82.9	5.9 5.8 5.0	6.4 7.8		5 5		86 89				<0.2	1.5
DA: Depth-Ave					Dottom	6.7	2.5	12	28.3	20.0	8.1	0.1	18.2	10.2	82.9	5.8	8.0		5		90				<0.2	1.6

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

Water Qua			ults on		25 May 21 c	during Mid-	Flood T	ide																			
Monitoring	Weather	Sea	Sampling	Water	0	()	Current Speed	Current	Water Te	mperature (°C)	P	Н	Salini	ity (ppt)		aturation (%)	Dissolved Oxygen	Turbidity(NTU)	Suspende (mg		Total Al		Coordinate HK Grid	Coordinate	Chromiu (µg/L)	ım Nickel (μο
Station	Condition	Condition	Time	Depth (m)	Sampling Depth	(m)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value DA	Value	DA	Value	DA	Value	DA	(Northing)	HK Grid (Easting)	Value D	DA Value D
					Surface	1.0	2.5	225	29.1	29.1	8.2	8.2	15.3	15.3	98.4	98.4	6.9	5.1		6		85				<0.2	1.5
IM9	Cloudy	Moderate	17:37	7.2	Middle	1.0 3.6	2.7	231 231	29.1 28.8	28.8	8.2 8.2	8.2	15.3 16.9	16.9	98.3 88.2	90.3	6.9 6.2 6.6	5.2 6.6	7.0	5 5	5	84 86	87	822071	808801	<0.2	1.5 0.2 1.5 1
livis	Cibudy	Woderate	17:37	1.2		3.6 6.2	2.4	239 246	28.8 28.4		8.2 8.2		16.8 18.4		92.4 86.3		6.5	6.5 9.4	7.0	5 4	5	87 89	01	622071	000001	<0.2	1.4
					Bottom	6.2	2.2	260	28.4	28.4	8.2	8.2	18.4	18.4	87.3	86.8	6.1	9.4		4		89				<0.2	1.3
					Surface	1.0	2.6	25 26	28.9 28.9	28.9	8.2	8.2	16.0 16.0	16.0	93.1 93.0	93.1	6.6	5.9 5.9		5 5		84 84				<0.2	1.3
IM10	Cloudy	Moderate	17:44	7.3	Middle	3.7	2.3	31	28.3	28.3	8.1	8.1	18.5 18.5	18.5	82.9 82.8	82.9	5.8 5.8 6.2	7.9 7.9	7.1	5	5	87 87	87	822383	809792	-O 2	0.2 1.2 1
					Bottom	3.7 6.3	2.4 2.6	31 23	28.3 28.3	28.3	8.1 8.1	8.1	18.7	18.7	82.4	82.5	5.8	7.4		6		89				<0.2	1.2
						6.3	2.8	24 49	28.3 28.6		8.1		18.7 17.4		82.5 89.0		5.8	7.3 6.6		6		89 84				<0.2	1.4
					Surface	1.0	2.9	52	28.6	28.6	8.2	8.2	17.5	17.4	89.0	89.0	6.3	6.7		6		84				<0.2	1.2
IM11	Cloudy	Moderate	17:54	7.9	Middle	4.0	2.5 2.7	42 42	28.3 28.3	28.3	8.1 8.1	8.1	18.5 18.5	18.5	81.3 81.3	81.3	5.7	8.3 8.3	8.7	5 5	5	87 87	87	822033	811475	<0.2	0.2 1.1 1
					Bottom	6.9 6.9	2.8 2.9	39 42	28.2 28.2	28.2	8.1 8.1	8.1	18.7 18.7	18.7	79.5 79.6	79.6	5.6 5.6	11.3 11.2		5 5		90 90				<0.2 <0.2	1.2
					Surface	1.0	2.9	46	28.6	28.6	8.2	8.2	17.1	17.1	90.0	90.1	6.3	6.2		5		84				<0.2	1.4
						1.0 4.6	3.2 2.8	47 40	28.6 28.3		8.2 8.1		17.1 18.1		90.1 82.0		6.4 5.8 6.1	6.2 7.9		5 6	_	85 87				<0.2 <0.2	1.2
IM12	Cloudy	Moderate	18:01	9.1	Middle	4.6	2.8	40	28.3	28.3	8.1	8.1	18.1	18.1	81.9	82.0	5.8	8.0	8.1	6	6	88	87	821457	812039	<0.2	0.2 1.3 1
					Bottom	8.1 8.1	2.8 3.0	32 34	28.2 28.2	28.2	8.1	8.1	18.7 18.7	18.7	80.2 80.2	80.2	5.6 5.6 5.6	10.2		6		90 90				<0.2	1.3
					Surface	1.0	-	-	28.7 28.7	28.7	8.2	8.2	17.6 17.6	17.6	98.9 98.8	98.9	6.9	6.8		8		-				-	-
SR1A	Cloudy	Calm	18:35	4.9	Middle	2.5	-	-	-		-	-	-	-	-	-	6.9	-	7.7	-	7	-		819976	812655	-	
	,				Bottom	2.5 3.9	-	-	28.6	28.6	8.2	8.2	18.0	18.0	96.2	96.2	6.8	8.6		- 6		-				-	-
						3.9 1.0	0.4	321	28.6 28.6		8.2		18.0 18.7		96.2 99.4		6.8	8.6 7.9		6 7		- 86				<0.2	1.3
					Surface	1.0	0.4	321	28.6	28.6	8.2	8.2	18.7	18.7	99.1	99.3	6.9	8.0		7		86				<0.2	1.3
SR2	Cloudy	Moderate	18:53	4.3	Middle	- :	-		-	-	-	-	-	-	-	-	- "	-	8.7	-	8	-	88	821440	814167	- <	0.2 - 1
					Bottom	3.3 3.3	0.2	321 326	28.5 28.5	28.5	8.2	8.2	18.8 18.8	18.8	97.2 97.3	97.3	6.8 6.8 6.8	9.4 9.4		9		89 89				<0.2	1.3
					Surface	1.0	2.2	237	28.8	28.8	8.2	8.2	15.3	15.4	91.3	91.2	6.5	6.8		4		-				-	- 1.3
						1.0 4.5	2.4	246 240	28.8 28.4		8.2 8.1		15.4 17.6		91.1 84.2		6.5 5.9 6.2	7.0 9.1		4		-				-	-
SR3	Cloudy	Moderate	17:26	9.0	Middle	4.5	2.3	262	28.4	28.4	8.1	8.1	17.6 18.7	17.6	84.2	84.2	5.9	9.2 12.8	9.6	5	5	-	-	822159	807556	-	-
					Bottom	8.0 8.0	2.2 2.4	225 226	28.3 28.3	28.3	8.1 8.1	8.1	18.7	18.7	82.5 82.6	82.6	5.8 5.8	12.8		5 5		-				-	
					Surface	1.0	0.1	243 258	28.4 28.4	28.4	7.9	7.9	19.1 19.1	19.1	81.7 81.6	81.7	5.7	7.5 7.4		5		-				-	-
SR4A	Fine	Calm	18:24	9.0	Middle	4.5	0.0	110	28.4	28.4	7.9	7.9	19.1	19.1	81.4	81.4	5.7	8.1	8.3	5	5	-		817190	807802	-	
					Bottom	4.5 8.0	0.0	110 86	28.4 28.3	28.4	7.9 7.9	7.9	19.1 19.2	19.2	81.3 81.1	81.2	5.7 5.7 5.7	8.2 9.2		4 5		-				-	
						8.0 1.0	0.1	91 243	28.4 28.6		7.9 8.0		19.2 18.3		81.2 92.4		5.7 5.7 6.5	9.2 7.6		6		-				-	
					Surface	1.0	0.1	264	28.6	28.6	8.0	8.0	18.4	18.3	92.1	92.3	6.4	7.6		4		-				-	-
SR5A	Fine	Calm	18:46	3.6	Middle	-	-	-	-	-	-	-	-	-	-	-	H	-	8.7	-	4	-	-	816578	810674	-	- -
					Bottom	2.6 2.6	0.1 0.1	277 283	28.6 28.6	28.6	8.0	8.0	18.4 18.3	18.3	92.2 92.3	92.3	6.5 6.5	9.9		4		-				-	-
					Surface	1.0	0.1	231	28.7	28.7	8.1	8.1	18.4	18.4	105.7	105.8	7.4	7.0		6		-				-	\pm
	_					1.0	0.1	235	28.7	20.7	8.1	0.1	18.4	10.1	105.8	100.0	7.4 7.4	7.0		7	_	-				-	-
SR6A	Fine	Calm	19:18	4.0	Middle		-	-	-	-	-	-		-		-	-	-	7.9	-	7	-	-	817939	814749	-	•
					Bottom	3.0	0.0	243 258	28.4 28.4	28.4	7.9	7.9	21.6	21.4	83.5 85.5	84.5	5.8 5.9	8.8 8.7		7		-				-	-
					Surface	1.0 1.0	1.1	96 98	27.3 27.3	27.3	8.2	8.2	24.5 24.5	24.5	80.1 80.0	80.1	5.5	5.6 5.6		7		-				-	H
SR7	Cloudy	Moderate	19:58	15.6	Middle	7.8	1.2	94	26.8	26.8	8.1	8.1	26.6	26.6	75.6	75.6	5.2	8.1	8.2	8	8	-		823619	823732	-	. 🗀
	,			***		7.8 14.6	1.2	94 101	26.8 26.0		8.1 8.1		26.6 29.6		75.6 73.1		5.2	8.1 11.0		9 10	-	-				-	-
<u></u>					Bottom	14.6 1.0	1.4	105	26.0 29.2	26.0	8.1	8.1	29.6 17.6	29.6	73.2	73.2	5.0	10.8		9		-				-	
					Surface	1.0	-		29.2	29.2	8.2	8.2	17.6	17.6	98.0 98.0	98.0	6.8 6.8 6.8	10.5		9		-				-	-
SR8	Cloudy	Moderate	18:08	4.8	Middle	-	-	-	-	-	\vdash	-	- 1	-	- 1	-	- 0.0	-	11.2	-	11	-	-	820409	811628	-	
					Bottom	3.8	-	-	29.1	29.1	8.2	8.2	17.4	17.4	98.0	98.1	6.8	11.9		13		-				-	-
DA: Depth-Aver	nand					3.8	-	-	29.1		8.2	_	17.4		98.1		6.8	11.7		13		L				-	

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

during Mid-Ebb Tide Water Quality Monitoring Results on 27 May 21 Suspended Solids | Total Alkalinity | Coordinate | Coordinate DO Saturation Dissolved Chromium Salinity (ppt) Turbidity(NTU) Nickel (µg/L) Sampling Water Water Temperature (°C) Monitoring Current Speed Oxvaen (ma/L) (ppm) Sampling Depth (m) HK Grid HK Grid Station Direction Condition Time Value Average Value Average Value Average Value DA Value DA Value DA Value DA (Northing) (Easting) Value DA Value DA Condition Depth (m) (m/s) Average Value 0.7 28.9 210 19.4 72.7 0.7 217 28.9 8.0 19.4 11.2 44 0.8 199 27.4 7.9 24.5 58.8 4.1 11.9 90 <0.2 1.9 C1 13:02 7.9 24.5 58.9 Fine Calm 8.8 Middle 815643 804245 <0.2 4.4 0.8 215 27.4 79 24.4 58.9 41 11.8 4 90 <0.2 1.8 7.8 0.6 221 26.5 7 9 30.2 61.9 4.2 12.5 4 91 <0.2 1.5 7.9 30.0 63.5 26.6 7.8 0.6 232 26.8 7.8 29.8 65.0 44 12.5 3 92 <0.2 1.3 170 13 1.0 3.2 28.0 7.8 21.4 65.3 4.5 10.6 84 < 0.2 1.1 Surface 7.8 21.4 65.2 1.0 3.3 173 27.9 7.8 21.5 65.1 4.5 11.0 13 85 <0.2 6.2 3.2 172 177 27.5 7.9 64.2 4.5 10.9 10.9 14 13 87 88 <0.2 C2 Sunny Moderate 11:48 12.4 Middle 7.9 22.5 64.0 13 825696 806936 <0.2 6.2 27.5 <0.2 1.0 3.3 7.9 22.5 11.4 3.2 168 27.3 12.9 14 7.9 25.4 64.9 4.5 89 < 0.2 1.2 Bottom 27.3 7.9 25.3 65.0 173 4.5 114 3.2 27.3 7 9 25.3 65.1 12 9 13 89 11 <0.2 1.1 217 28.1 13 86 8.2 < 0.2 1.1 7.9 Surface 28.1 7.9 23.5 69.4 1.0 235 7.9 8.2 8.5 12 <0.2 1.0 1.2 28.1 23.5 69.3 4.8 86 27.3 27.2 13 12 89 90 0.7 220 221 4.5 <0.2 1.1 7.9 65.4 C3 Sunny Moderate 14:51 12.0 Middle 7.9 25.6 65.1 12 822119 817821 <0.2 6.0 0.7 8.6 7.9 17.3 12 11.0 0.7 254 26.9 7.9 4.2 90 <0.2 1.1 26.7 60.6 7.9 60.7 Bottom 26.9 26.7 4.2 11.0 0.7 274 26.9 7.9 26.8 60.7 16.6 11 91 <0.2 1.1 28.1 9.8 89 <0.2 7.9 66.8 4.6 Surface 28.2 7.9 21.4 66.7 1.0 0.1 230 28.2 7.9 21.2 66.6 4.6 9.8 5 89 <0.2 1.4 12:41 807116 IM1 Fine Calm 5.4 Middle 817949 <0.2 4.4 0.1 135 27.1 7.8 26.3 26.2 67.8 4.7 10.7 8 92 <0.2 2.6 27 1 7.8 26.2 70.1 49 Rottom 4.4 0.1 139 27.2 7.8 72.4 5.0 10.6 91 0.1 227 7.9 89 <0.2 2.2 Surface 27.6 7.9 22.5 56.4 1.0 0.1 229 27.5 7.4 89 <0.2 2.0 90 90 91 0.1 173 27.0 8.7 5 <0.2 1.7 54.8 818181 806178 IM2 Fine Calm 12:33 7.0 Middle 7.9 26.5 <0.2 3.5 0.1 189 27.1 8.6 <0.2 6.0 0.3 116 26.6 7.9 28.8 4.2 10.5 5 <0.2 2.2 Bottom 7.8 28.8 62.9 4.3 6.0 0.3 125 26.7 7.8 28.8 64.6 44 10.4 4 91 <0.2 2.1 7.9 11 12 1.0 0.1 218 29.1 18.7 66.8 8.5 89 <0.2 1.4 Surface 7.9 18.8 65.3 1.0 0.1 229 29.1 18.8 63.8 5.2 8.5 89 < 0.2 1.5 3.7 0.1 176 27.7 7.9 24.1 5.0 9.2 11 90 <0.2 1.3 IM3 12:25 7.4 Middle 24.0 58.4 818775 805599 10 10 90 91 3.7 0.2 184 27.7 9.1 <0.2 129 7.8 7.8 <0.2 1.4 6.4 0.4 26.6 28.3 41 9.6 28.3 61.5 4.2 9.5 10 28.2 43 91 <0.2 14 6.4 0.5 134 26.7 63.0 12 12 1.0 1.0 201 27.7 7.9 23.1 61.1 5.2 8.3 87 <0.2 2.2 Surface 27.7 7.9 23.1 61.1 27.7 79 8.3 88 2.3 1.0 1.1 215 < 0.2 4.3 198 27.2 5.0 10.0 9 10 89 89 <0.2 2.4 1.0 7.9 25.1 55.4 IM4 Fine Calm 12:15 8.6 Middle 7.9 25.1 55.4 819711 804604 <0.2 2.3 10.1 205 27.2 7.9 4.3 1.1 12.1 12.0 7.6 0.6 162 173 26.7 7.8 7.8 28.3 28.2 4.0 91 91 <0.2 2.3 7.8 59.2 Rottom 26.8 28.2 41 0.6 26.8 8 <0.2 2.3 215 1.0 0.7 27.9 7.9 7.9 87 1.6 22.6 61.2 5.2 8.2 3 <0.2 Surface 27.9 7.9 22.6 61.0 1.6 1.0 0.7 227 27.9 22.6 60.8 8.2 88 <0.2 4.2 0.6 210 27.3 11.0 5 89 <0.2 1.6 7.9 5.0 24.0 54.4 IM5 Fine 12:07 27.2 7.9 24.1 54.2 820717 804887 Calm 8.4 Middle 4.2 218 7.9 10.9 6 89 <0.2 1.6 0.7 27.1 4.3 11.8 26.9 27.2 91 91 <0.2 7.4 0.5 181 7.8 7.8 27.5 27.2 60.4 66.0 4.1 4.5 1.4 7.8 27.3 63.2 5 6 27 N Rottom 0.6 190 11.7 <0.2 1.0 0.4 258 28.4 7.9 20.7 65.4 65.4 8.2 87 <0.2 2.6 Surface 28.4 7.9 20.7 65.4 28.4 7.9 8.1 10 87 <0.2 0.4 264 4.0 0.4 224 27.3 7.9 55.0 54.9 9.7 10 88 <0.2 2.0 55.0 IM6 Fine 11:58 8.0 Middle 27.3 7.9 24.5 821045 805818 <0.2 Calm 2.1 4.0 232 27.3 7.9 24.5 9.6 88 <0.2 2.0 0.4 7.0 0.4 193 27.0 26.3 3.7 10.4 90 <0.2 1.6 27.0 7.9 26.3 53.5 3.7 Bottom 7.9 10.3 27.0 1.0 0.1 263 28.4 7.9 4.7 7.4 85 <0.2 1.2 Surface 28.4 7.9 20.7 67.0 1.0 0.2 276 28.4 7.9 20.8 66.4 4.6 7.3 6 85 <0.2 1.3 4.5 0.1 27.7 7.9 4.3 8.5 87 <0.2 1.4 208 IM7 Fine Calm 11:50 9.0 Middle 27.7 7.9 22.5 62.0 821343 806857 <0.2 4.5 0.1 27.7 7.9 62.1 13 8.5 6 87 <0.2 1.4 8.0 0.1 185 27.7 7.8 64.4 4.5 9.7 6 92 <0.2 2.0 27.7 7.8 22.6 65.7 8.0 0.1 196 27.7 7.8 22.6 66.0 46 9.7 92 < 0.2 2.0 1.0 19 177 28.2 7.8 20.7 69.2 4.8 9.6 10 85 < 0.2 1.0 7.8 69.2 Surface 20.8 1.0 2.0 193 28.1 7.8 20.9 69.1 4.8 10.0 9 85 <0.2 1.0 4.7 10 42 19 173 27.5 7.8 21.8 63.6 4.5 11.6 87 87 <0.2 1.0 IM8 Moderate 12:15 8.4 Middle 27.5 7.8 21.9 63.8 821807 808130 <0.2 Sunny 4.2 2.0 186 27.4 7.8 21.9 64.0 4.5 11.5 < 0.2 7.4 2.4 176 27.4 7.8 24.4 65.1 4.5 15.9 12 90 < 0.2 1.1 7.8 Bottom 27.4 24.4 65.4 4.5 7.4 188 27.4

DA: Depth-Averaged

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

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

during Mid-Ebb Tide Water Quality Monitoring Results on 27 May 21 Suspended Solids | Total Alkalinity | Coordinate | Coordinate DO Saturation Dissolved Chromium Salinity (ppt) Turbidity(NTU) Nickel (µg/L) Sampling Water Water Temperature (°C) Monitoring Current Speed Oxvaen (ma/L) (ppm) Sampling Depth (m) HK Grid HK Grid Station Direction Value DA Time Value Value DA Value DA Value DA DA (Easting) Value DA Condition Condition Depth (m) (m/s) Average Value Average Value Average Value Average Value (Northing) 1.9 162 28.0 Surface 21.0 65.5 1.9 177 28.0 10.5 4 0 19 162 27.5 7.8 22.7 60.5 15.0 12 88 <0.2 12:21 60.4 IM9 Sunny Moderate 7.9 Middle 27.5 7.8 22.7 13 822079 808825 <0.2 4.0 2.0 175 27.4 7.8 22.7 60.3 5.0 15.0 13 88 <0.2 1.0 6.9 1.9 167 27.2 7.8 24.4 60.6 4.2 15.6 13 89 <0.2 11 27.2 7.8 24.4 60.9 Bottom 6.9 2.0 178 27.2 7.8 24.4 61.2 42 15.3 13 89 <0.2 11 1.0 2.5 153 28.4 7.8 20.6 4.9 8.5 12 85 < 0.2 1.0 Surface 7.8 20.6 70.3 1.0 2.7 163 28.4 7.8 20.6 70.1 4.9 8.6 13 85 <0.2 1.2 3.7 2.8 154 167 28.1 7.8 4.7 9.2 12 13 87 88 <0.2 IM10 Sunny Moderate 12:28 7.4 Middle 7.8 20.9 67.7 13 822365 809815 3.7 9.3 1.0 2.9 28.0 7.8 20.9 <0.2 27.7 10.3 6.4 2.2 160 7.8 22.8 67.5 4.7 14 89 < 0.2 Bottom 27.7 7.8 22.8 67.8 4.7 6.4 2.3 161 27.7 79 47 10.9 13 89 11 22.8 68 N <0.2 2.2 151 28.4 14 1.2 8.6 86 < 0.2 7.8 Surface 28.4 7.8 20.5 70.1 1.0 159 1.1 2.3 28.4 7.8 20.5 70.0 4.9 8.7 13 86 < 0.2 14 13 89 89 2.6 28.4 28.3 9.0 <0.2 1.0 4.1 153 153 7.8 69.5 4.8 IM11 Sunny Moderate 12:36 8.2 Middle 28.4 7.8 20.6 69.6 12 822073 811467 <0.2 8.7 4.1 7.8 20.6 167 7.2 2.4 27.7 7.8 4.6 11.1 10 90 <0.2 1.0 22.7 66.5 7.8 66.8 Bottom 27.8 22.7 4.6 7.2 2.4 169 27.8 7.8 22.7 67.1 11.3 9 91 <0.2 1.1 11.0 10 85 <0.2 7.8 21.6 Surface 27.9 7.8 21.7 64.2 1.0 2.4 204 27.8 11.1 85 <0.2 4.4 191 7.8 5.0 12.8 11 88 <0.2 1.1 2.1 27.5 22.5 63.0 821460 IM12 Sunny Moderate 12:43 8.8 Middle 27.5 7.8 22.5 63.0 812069 < 0.2 4.4 2.2 27.5 12.8 10 88 91 <0.2 194 206 27.5 7.8 13.2 10 <0.2 27.6 7.8 65.0 45 Rottom 24.6 7.8 2.4 209 27.6 7.8 24.6 4.6 14.0 <0.2 28.5 7.8 Surface 28.4 7.8 21.9 75.0 1.0 28.3 7.9 SR1A Sunny Moderate 13:02 5.0 Middle 819975 812659 2.5 4 0 28.0 7.9 22.6 4.9 14.5 8 Bottom 28.0 7.9 22.5 70.9 4.9 4 0 28.0 79 49 13.7 9 7.8 24 24 1.0 0.6 70 28.2 67.8 47 13.8 84 <0.2 11 Surface 28.2 7.8 21.2 67.6 1.0 0.6 74 28.1 67.4 4.7 13.8 85 < 0.2 1.0 SR2 Sunny Moderate 14:31 4.2 Middle 821447 814173 0.3 67 27 9 7.8 7.8 21.9 17.8 24 <0.2 1.0 32 88 21.9 67.5 4.7 67.5 47 17 9 27.9 23 32 0.3 70 88 r0 2 1.0 2.6 27 9 7.8 21.1 65.2 45 9.6 10 Surface 27.9 7.8 21.2 65.0 7.8 10.1 11 1.0 27 27 9 12.8 12 13 4.6 2.4 27.6 7.8 22.0 62.8 4.4 SR3 Sunny Moderate 12:08 9.2 Middle 7.8 22.0 62.8 822168 807583 13.4 7.8 4.6 2.4 27.6 8.2 2.6 27.3 7.8 7.8 24.9 64.4 4.4 12.6 12.3 14 15 Bottom 27.4 7.8 24 9 64.7 4.5 2.6 27.4 7.9 1.0 0.2 268 28.5 19.6 65.2 5.1 8.0 3 Surface 28.5 7.9 19.6 64.9 7.9 1.0 0.2 288 28.5 19.6 64.6 7.9 4 4.8 0.1 269 27.6 9.2 4 7.9 5.0 24.2 59.3 SR4A Fine 13:27 27.7 7.9 24.0 59.4 817198 807821 Calm 9.6 Middle 4.8 7.9 59.4 9.1 4 0.1 279 27.7 8.6 0.0 27.3 27.4 7.8 7.8 25.6 25.5 64.2 66.8 4.4 10.9 262 7.8 65.5 45 4 27.3 25.5 Rottom 0.0 266 4.6 10.8 1.0 0.2 290 29.2 7.9 81.4 81.1 11.5 19.8 5.6 29.2 7.9 19.8 81.3 Surface 317 7.9 11.6 4 1.0 0.2 29.2 SR5A 13:46 3.8 Middle 816599 810711 Fine Calm 2.8 0.1 278 29.1 5.6 12.3 29.1 7.9 19.9 82.4 5.7 Bottom 7.9 0.1 280 29.1 1.0 0.1 13 29.2 7.9 8.8 Surface 29.2 7.9 19.9 79.2 1.0 0.1 13 29.1 7.9 19.9 79.0 5.4 8.7 5 SR6A Fine Calm 14:17 3.8 Middle 817980 814729 2.8 0.0 325 28.8 7.9 76.4 10.1 4 7.9 20.2 77.1 2.8 0.0 344 28.9 7.0 77.7 10.1 5 22.9 1.0 0.6 126 27.9 79 67.2 99 13 7.9 22.9 67.2 Surface 1.0 0.6 131 27.9 79 22 9 67.1 5.0 10.0 12 8.2 0.5 148 27.8 79 23.3 65.9 10.7 9 SR7 Moderate 15:13 16.4 Middle 27.8 7.9 23.3 65.9 823633 823732 Sunny 10 8.2 0.6 160 27.7 7.9 23.3 65.8 5.0 10.8 15.4 0.3 158 27.6 7.9 23.9 65.6 4.5 11.5 8 Bottom 27.6 7.9 23.9 65.8 15.4 0.3 173 27.6 7.9 4.6 11.6 1.0 28.8 7.9 22.1 75.8 12.0 12 Surface 28.7 7.9 22.1 75.6 11 11.5 1.0 28.5 7.9 22.2 75.4 5.2 -12:53 820405 SR8 Sunny Moderate 4.8 Middle 12 811607 --12 3.8 28.1 15.1 7.9 22.4 70.6 4.9 28.2 7.9 22.4 70.8 4.9

DA: Depth-Averaged

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

Water Quality Monitoring Results on during Mid-Flood Tide 27 May 21 Suspended Solids | Total Alkalinity | Coordinate | Coordinate DO Saturation Dissolved Chromium Salinity (ppt) Turbidity(NTU) Nickel (µg/L) Sampling Water Water Temperature (°C) Monitoring Current Speed Oxvaen (ma/L) (ppm) Sampling Depth (m) HK Grid HK Grid Station Direction Condition Time Value Average Value Average Value Average Value DA Value DA Value DA Value DA (Northing) (Easting) Value DA Value DA Condition Depth (m) (m/s) Average Value 0.6 28.0 4.4 1.6 Surface 28.0 7.9 18.5 61.3 0.6 33 28.0 7.9 18.5 60.0 4.2 8.7 <0.2 1.6 35 26.3 9.7 89 1.6 <0.2 C1 7.9 29.4 52.6 Fine 07:09 92 Middle 26.3 815605 804238 Calm <0 2 16 6 89 <0.2 1.6 0.7 37 26.3 7.9 29.4 9.7 8.2 0.4 29 25.9 7.9 31.7 56.0 3.8 10.6 9 90 <0.2 1.7 7.9 31.7 3.9 25.9 56.8 Bottom 7.9 3.9 10.5 < 0.2 1.5 0.4 26.0 90 8.2 30 326 28.2 16.6 14 1.3 86 < 0.2 Surface 28.2 7.8 18.6 70.6 16.6 16.2 28.2 28.0 7.8 15 16 87 <0.2 0.2 346 1.4 0.2 284 88 7.8 4.8 1.1 19.5 68.4 C2 Sunny Moderate 08:10 12.4 Middle 28.0 7.8 19.4 68.4 88 825692 806965 <0.2 1.2 284 7.8 15.7 15 89 <0.2 6.2 0.2 28.0 19.4 68.3 4.8 11.4 0.1 165 27.9 7.9 4.8 17.2 15 90 <0.2 1.2 21.1 69.2 27.9 7.9 21.1 69.5 Bottom 4.9 11.4 165 7.9 17.2 16 90 <0.2 1.2 0.1 27.9 2.9 244 27.7 4.5 <0.2 23.1 69.7 Surface 27.7 7.9 23.1 3.1 258 27.7 7.9 23.1 69.6 4.8 4.5 4 85 <0.2 1.2 88 89 6.3 3.2 243 7.9 29.7 29.7 58.1 58.1 4.0 11.0 4 <0.2 0.9 26.2 C3 06:02 7.9 58.1 822106 817817 Sunny Moderate 12.6 Middle 26.2 29.7 <0.2 3.4 256 26.2 11.2 4 11.6 3.7 243 26.2 29.8 15.2 90 <0.2 0.9 26.2 7.9 29.8 58.4 Bottom 4.0 11.6 3.7 247 26.2 7.9 29.8 58.4 4.0 15.4 91 <0.2 0.9 1.0 1.6 28.3 7.9 74.2 73.5 10.3 86 <0.2 2.0 Surface 28.3 7.9 18.5 73.9 18.5 1.0 1.7 28.2 7.9 5.2 10.4 7 86 <0.2 1.9 07:30 IM1 Fine Calm 5.2 Middle 817926 807114 <0.2 42 1.5 359 28.1 7.8 20.1 73.0 10.8 87 <0.2 1.8 Bottom 28.1 7.8 20.1 75.3 5.3 42 1.6 330 28.1 7.8 20.1 77.5 5.4 10.8 3 87 <0.2 1.8 346 87 1.0 0.1 28.3 7.9 17.7 8.3 < 0.2 1.8 Surface 7.9 17.8 72.2 1.0 0.1 318 28.3 7.9 17.8 71.6 5.1 8.3 5 87 <0.2 1.8 3.6 0.1 353 27.8 7.9 21.8 63.9 4.4 9.5 5 89 <0.2 1.7 IM2 Fine Calm 07:38 7.2 Middle 7.9 21.8 64.0 818148 806163 3.6 0.1 325 27.8 7.9 21.8 64.1 4.5 9.5 6 10 89 <0.2 1.6 11.5 6.2 0.2 37 27.8 79 22 0 64 1 45 91 <0.2 1.6 7.9 22.0 64.2 37 4.5 15 6.2 0.2 27.8 79 22.0 11.5 q 91 <0.2 64.3 1.0 0.1 326 28.2 79 19.0 67.8 4.8 6.9 85 <0.2 17 Surface 28.2 7.9 19.0 67.4 1.0 340 7.9 4.7 85 1.7 0.1 28.2 18.9 66.9 6.9 4 <0.2 335 27.7 8.5 9 87 1.9 3.7 0.1 7.9 22.6 61.8 4.3 <0.2 IM3 Fine Calm 07:46 7.4 Middle 27.7 7.9 22.6 61.8 818769 805589 <0.2 27.7 27.7 8.5 10.7 3.7 308 14 88 91 <0.2 1.8 0.1 7.9 4 5 6.4 0.1 7.9 22.9 61.8 4.3 7.9 Rottom 27.7 22.9 62.0 4.3 6.4 14 27.7 7.9 4.3 10.6 91 1.7 0.1 62.1 8 <0.2 22.9 354 1.0 1.5 0.1 28.2 7.9 19.3 67.6 4.7 8.9 3 86 <0.2 Surface 28.1 7.9 18.9 66.9 0.1 354 28.0 8.8 4 87 <0.2 9.5 89 <0.2 1.6 4.3 4.3 3 0.1 27.5 7.9 23.4 IM4 Fine Calm 07:57 8.6 Middle 27.5 7.9 23.4 61.7 819703 804603 <0.2 4.3 0.1 27.5 7.9 9.4 89 91 <0.2 23.4 11.1 <0.2 0.2 27.2 7.8 27.3 7.8 66.7 25.5 46 Bottom 7.6 0.2 22 27.3 11.0 92 <0.2 1.7 87 1.0 0.2 263 28.2 7.9 7.7 3 <0.2 2.1 19.2 65.7 4.6 Surface 28.1 7.9 19.2 65.1 1.0 266 28.1 7.9 7.7 87 <0.2 2.1 0.2 4.0 4.4 9.6 3 88 88 <0.2 2.0 27.7 IM5 Fine 08:04 8.0 Middle 27.7 7.8 22.4 62.7 820724 804882 Calm < 0.2 2.2 4.0 0.1 273 27.7 9.5 <0.2 0.0 27.6 7.8 7.8 23.2 4.5 10.6 90 91 <0.2 2.4 27.6 7.8 23.2 66.7 Bottom 7.0 0.0 187 27.7 10.5 <0.2 1.0 0.1 224 28.7 7.9 17.6 5.4 10.2 87 <0.2 1.5 Surface 7.9 17.6 76.0 1.0 0.1 241 28.7 79 17.6 10.1 7 88 <0.2 1.6 3.0 0.1 208 28.4 7.9 18.4 5.1 11.0 5 88 <0.2 1.8 Fine Calm 08:14 7.8 Middle 7.9 18.4 72.2 821053 805813 1.7 3.9 0.1 210 28.4 7.9 18.4 71.9 5.0 11.0 4 89 <0.2

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DA: Depth-Averaged

IM7

IM8

Fine

Sunny

Calm

Moderate

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

08:24

07:44

9.0

8.5

6.8

6.8

1.0

1.0

4.5

4.5

8.0

8.0

1.0

1.0

4.3

4.3

7.5

Surface

Middle

Bottom

Surface

Middle

Rottom

0.1

0.1

0.2

0.2

0.1

0.1

0.1

0.1

0.3

0.3

0.2

0.3

0.2

234

252

242

259 227

247

62

65

56

59

61

61

58

27.9

28.0

28.3

28.2

28.0

28.0

27.8

27.9

28.3

28.3

28.0

27.9

27.6

Water Quality Monitoring Results on during Mid-Flood Tide 27 May 21 Suspended Solids | Total Alkalinity | Coordinate | Coordinate DO Saturation Dissolved Chromium Salinity (ppt) Turbidity(NTU) Nickel (µg/L) Sampling Water Water Temperature (°C) Monitoring Speed Current Oxvaen (ma/L) (ppm) Sampling Depth (m) HK Grid HK Grid Station Direction Value DA Time Value Average Value DA Value DA Value DA Value DA (Northing) (Easting) Value DA Condition Condition Depth (m) (m/s) Value Average Value Average Value Average 28.1 0.3 Surface 19.9 65.6 34 28.1 4.6 12.4 13 3.6 0.2 40 28.0 7.8 20.4 64 9 4.5 12.3 11 88 <0.2 1.1 07:39 65.0 808793 IM9 Sunny Moderate 7.2 Middle 7.8 20.4 822088 <0.2 3.6 0.2 41 28.0 7.8 20.4 65.1 4.6 12.6 10 89 <0.2 11 6.2 0.2 46 28.1 79 20.5 69.5 4.9 12.9 9 89 <0.2 11 7.9 20.5 69.8 Bottom 6.2 0.2 47 28.1 7.9 20.5 70.1 49 12.1 10 90 <0.2 1.0 1.0 0.6 299 28.2 7.9 19.4 69.6 4.9 8.7 19 85 < 0.2 0.9 Surface 7.9 19.4 69.6 1.0 0.6 308 28.2 7.9 19.5 69.5 4.9 8.8 20 86 <0.2 1.0 3.8 0.5 306 27.9 7.9 69.1 4.8 9.9 19 20 89 89 <0.2 0.9 IM10 Sunny Moderate 07:30 7.6 Middle 7.9 21.4 69.1 822387 809797 27.9 9.9 <0.2 3.8 0.5 306 7.9 4.8 27.9 11.3 12 6.6 0.4 311 7.9 22.0 68.9 4.8 90 < 0.2 Bottom 27.9 7.9 22.0 69.1 6.6 0.4 334 27.8 7 9 22 1 69.3 4.8 12.0 13 90 1.0 <0.2 203 27.9 13 85 0.9 9.5 < 0.2 7.9 Surface 27.9 7.9 22.0 68.2 1.0 222 4.7 13 0.9 2.0 27.9 7.9 22.0 68.1 9.8 85 <0.2 11.3 14 15 88 88 0.8 2.1 203 217 27.3 27.2 4.7 <0.2 4.3 7.9 67.4 IM11 Cloudy Moderate 07:19 8.6 Middle 7.9 22.3 67.3 15 822063 811479 <0.2 0.9 4.3 11.1 7.9 16 7.6 2.1 202 26.6 7.9 4.3 12.4 89 <0.2 1.0 28.1 62.6 7.9 62.8 Bottom 26.6 28.1 4.3 7.6 2.3 210 26.6 7.9 28.1 62.9 12.6 16 90 <0.2 1.0 14.2 12 84 <0.2 23.8 Surface 27.5 7.9 23.8 64.2 1.0 3.1 168 27.5 23.9 14.1 12 84 <0.2 1.0 4.9 164 7.9 4.5 12.9 10 88 <0.2 1.0 2.9 27.3 24.2 63.1 07:12 821452 812066 IM12 Cloudy Moderate 9.8 Middle 27.3 7.9 24.3 63.0 < 0.2 4.9 13.0 88 89 <0.2 3.0 169 27.2 3.3 26.9 7.9 26.3 4.3 14.5 6 <0.2 26.9 7.9 62.2 43 Rottom 26.3 8.8 3.6 176 26.9 7.9 26.3 4.3 15.0 <0.2 28.1 7.9 7.9 9.4 6 21.0 Surface 28.1 7.9 21.1 69.7 1.0 28.0 4.8 10.0 SR1A Cloudy Moderate 06:40 5.1 Middle 819978 812665 2.6 41 28.0 7.9 21.4 69.3 4.8 11.9 6 Bottom 28.0 7.9 21.4 71.1 5.0 41 27.9 79 21.4 12.0 7.9 20.4 1.0 1.1 66 28.1 7.0 84 <0.2 1.0 Surface 7.9 20.4 71.2 1.0 1.1 66 28.1 71.1 5.0 7.6 7 85 < 0.2 0.9 SR2 Sunny Moderate 06:22 4.6 Middle 821457 814159 0.9 0.9 84 27.8 7.9 7.9 88 <0.2 0.9 3.6 22.0 99 6 22.0 66.5 4.6 66.5 4.6 27.8 99 3.6 1.0 86 88 r0 2 0.9 1.0 0.3 46 28.1 7.8 194 70.1 49 11.8 Surface 28.1 7.8 19.4 70.1 7.8 11 9 6 1.0 0.3 46 28 1 65 14.0 7 4.5 0.4 28.0 7.8 19.8 68.6 4.8 SR3 Sunny Moderate 07:50 8.9 Middle 7.8 19.9 68.6 822132 807580 7.8 14.0 6 71 68.6 4.5 0.4 27.9 7.9 0.8 78 27.9 7.8 7.8 20.4 4.9 4.9 12.5 12.8 5 7.8 Bottom 27.9 20.4 69.5 49 0.8 85 27.9 6 74 7.9 7.9 5.7 1.0 0.8 28.1 18.7 73.9 5.2 6 Surface 28.1 7.9 18.7 73.8 18.7 5.6 1.0 0.8 80 28.1 73.6 5.0 0.7 73 6.7 5 28.1 7.9 4.9 -19.7 69.8 SR4A Fine 06:42 7.9 19.7 69.5 817210 807812 Calm 9.9 Middle 28.1 5.0 7.9 6.6 6 0.7 28.1 8.9 0.6 56 27.8 7.8 7.8 22.2 4.7 4.8 8.7 7.8 22.3 69.1 27 9 Rottom 0.6 1.0 0.1 82 28.5 7.9 21.2 7.6 6 28.5 7.9 21.2 73.4 Surface 0.1 83 28.5 7.9 7.6 1.0 SR5A Fine 06:20 4.6 Middle 816601 810710 Calm 3.6 0.1 75 28.4 21.4 5.2 8.2 28.4 7.8 21.3 76.4 5.3 Bottom 7.8 0.1 82 28.4 1.0 0.0 263 28.4 7.9 9.5 Surface 28.4 7.9 20.3 73.2 1.0 0.0 282 28.4 7.9 20.3 73.1 5.1 9.5 4 SR6A Fine Calm 05:52 4.4 Middle 817972 814734 3.4 0.0 286 28.4 7.9 20.4 10.3 7.9 20.4 74.7 5.2 3.4 0.0 287 28.3 7.0 20.4 10.2 4 1.0 0.6 145 27.0 79 26.2 63.3 49 5.4 4 26.2 63.2 Surface 1.0 0.6 151 27.0 79 26.2 63.0 5.0 5.6 4 8.2 0.8 132 26.5 7 9 28.0 60.3 5.0 6.9 4 SR7 Moderate 05:25 16.4 Middle 7.9 28.0 60.2 823642 823731 Sunny 3 8.2 0.8 133 26.5 7.9 28.0 5.2 7.1 15.4 1.2 134 25.8 7.9 30.8 59.2 4.1 11.1 3 Bottom 7.9 30.8 59.3 15.4 1.2 142 25.8 7.9 30.8 4.1 11.0 1.0 27.7 7.9 23.1 65.0 4.5 14.1 Surface 27.7 7.9 23.1 65.0 1.0 27.7 7.9 23.1 65.0 4.5 14.0 6 -811619 07:03 820404 SR8 Cloudy Moderate 4.3 Middle --3.3 27.5 7.9 7.9 13.9 7 23.8 65.1 4.5 27.5 7.9 23.8 65.5 4.6

DA: Depth-Averaged

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

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

during Mid-Ebb Tide Water Quality Monitoring Results on 29 May 21 DO Saturation Dissolved Suspended Solids Total Alkalinit Water Temperature (°C) Salinity (ppt) Turbidity(NTU) Coordinate Coordinate Nickel (µg/L) Sampling Water Monitoring Speed Current Oxvaen (ma/L) Sampling Depth (m) HK Grid HK Grid Direction Value DA Condition Condition Time (m/s) Value Average Value Average Value Average Value Average Value DA Value DA Value DA DA Value DA Depth (m) Value (Northing) (Easting) 28.9 0.4 217 19.2 1.0 0.4 228 28.9 19.2 91.0 6.3 5.1 89 <0.2 4.3 0.6 197 27.0 8.2 27.7 60.0 41 14 N 7 90 1.5 C1 14:32 27.6 804224 Fine Rough 8.6 Middle 27.1 8.2 60.1 90 815619 <0.2 4.3 0.6 198 27.1 8.2 27.6 60.1 41 13.0 6 90 1.4 7.6 0.4 220 26.5 8.2 28.9 58.6 4.0 14 7 7 91 <0.2 2.4 8.2 28.9 58.7 Bottom 26.5 7.6 0.4 233 26.5 8.2 28.9 58.7 4 0 14.2 7 91 <0.2 2.3 13 1.0 0.2 135 28.7 7.9 19.9 73.0 5.1 8.3 88 <0.2 1.3 Surface 7.9 19.9 73.0 <0.2 0.2 135 28.7 7.9 19.9 72.9 5.1 8.4 14 88 1.2 6.5 0.5 154 28.5 7.9 20.8 67.6 4.7 9.1 12 91 91 <0.2 1.3 C2 Moderate 13:25 13.0 Middle 7.9 20.8 67.1 13 825688 806933 1.3 6.5 159 28.4 0.5 7.9 20.8 66.6 4.6 12.0 0.5 144 27.2 10.8 13 7.9 27.3 65.5 4.5 93 < 0.2 7.9 Bottom 27.3 27.2 67.0 4.6 12 12.0 0.5 150 27.4 79 27.2 68.4 47 10.5 <0.2 12 94 286 28.4 0.4 <0.2 1.0 8.0 23.8 73.6 5.0 Surface 28.4 8.0 23.8 73.5 <0.2 1.0 293 7.3 87 1.1 0.4 28.4 8.0 23.8 73.3 5.0 9 8.3 8.1 <0.2 0.2 88 88 0.9 27.6 27.4 25.2 25.3 4.6 9 5.4 257 8.0 66.8 C3 Fine Calm 15:26 10.8 Middle 27.5 8.0 25.3 66.6 89 822115 817784 <0.2 1.0 5.4 260 8.0 4.6 <0.2 9.8 0.1 120 26.8 8.0 4.7 9.9 8 93 0.9 29.7 69.9 8.0 4.8 Bottom 26.8 29.7 70.1 9.8 0.1 127 26.8 8.0 29.7 70.3 4.8 9.6 7 93 <0.2 1.0 134 29.1 5.3 2.1 87.6 <0.2 8.2 19.0 6.1 Surface 29.1 8.2 19.0 87.5 1.0 0.1 146 29.1 8.2 87.3 6.0 5.5 6 88 <0.2 2.0 14:13 817960 807133 IM1 Fine Rough 5.6 Middle 90 <0.2 1.7 4.6 0.1 311 26.9 8.2 27.2 60.8 4.2 12.6 <0.2 1.4 26.9 8.2 27.2 61.0 4.2 Rottom 4.6 0.1 315 26.9 8.2 61.1 4.2 12.3 1.3 1.0 0.1 200 28.9 4.8 8 88 <0.2 2.2 8.2 19.1 Surface 28.9 8.2 19.1 84.8 1.0 0.1 218 28.9 8.2 19.1 5.9 4.8 89 3.6 0.2 145 27.1 10.2 6 90 <0.2 <0.2 <0.2 2.2 2.2 1.7 8.2 26.4 3.9 818163 IM2 Fine Rough 14:06 7.2 Middle 27.1 8.2 26.6 57.5 <0.2 3.6 158 27.1 4.0 10.8 90 90 0.2 6.2 0.1 128 26.8 8.2 28.0 60.9 4.2 12.0 6 Bottom 26.8 8.2 28.0 61.1 <0.2 6.2 0.1 129 26.8 8.2 61.3 42 11.6 5 90 1.6 5.0 7 <0.2 2.4 1.0 0.1 220 29.1 8.2 18.5 92.0 6.4 89 Surface 29.1 8.2 18.5 91.9 1.0 0.1 238 29.1 8.2 18.5 91.8 6.4 89 89 90 91 <0.2 <0.2 <0.2 <0.2 1.5 3.8 0.2 158 27.2 8.2 23.2 65.2 4.6 14.6 7 IM3 Rough 13:59 7.6 Middle 23.1 65.2 818790 805596 2.0 172 120 6 3.8 0.2 27.2 4.6 14.0 6 7 2.1 6.6 0.4 26.9 8.2 27.5 3.9 4.0 12.8 57.5 8.2 27.5 57.7 127 12.2 6.6 0.5 26.9 91 1.0 0.7 196 27.4 8.1 23.7 69.8 4.8 12.6 2 87 <0.2 <0.2 2.0 Surface 27.4 8.1 23.7 69.8 10 0.7 8.1 23.7 69.8 13.9 87 1.0 205 27 4 3.9 0.7 187 27.1 65.2 65.2 14.0 6 <0.2 2.4 8.1 26.0 4.4 88 IM4 13:50 7.8 Middle 27.1 26.0 65.2 89 819735 804602 <0.2 2.2 Rough 89 4.4 13.5 0.7 187 27.1 8.1 26.0 3.9 175 176 8 7 <0.2 6.8 0.2 27.1 8.1 8.1 26.6 26.5 56.2 56.4 3.9 13.4 13.3 90 2.2 Bottom 27.2 8.1 26.6 56.3 39 91 6.8 0.2 27.2 14 <0.2 <0.2 <0.2 <0.2 0.6 217 27.5 10.7 87 1.3 1.0 8.1 24.1 69.4 4.8 Surface 27.5 8.1 24.1 69.4 27.5 8.1 24.1 69.4 4.8 10.6 14 88 1.2 1.0 0.6 235 3.9 0.7 223 27.1 13.8 14 88 1.3 26.1 65.8 4.5 8.2 IM5 13:42 7.7 27.1 8.2 26.1 65.8 13 820720 804846 Fine Rough Middle 89 3.9 8.2 26.1 65.8 4.5 14.3 13 89 1.4 0.8 238 27.1 <0.2 12 11 2.0 6.7 0.6 211 27.1 27.1 8.2 8.2 26.6 26.6 56.2 56.2 3.9 14.2 90 8.2 56.2 3.9 27.1 26.6 Rottom 0.6 225 14.2 <0.2 1.0 0.5 258 28.6 8.2 19.7 19.7 73.0 10.0 15 86 2.1 8.2 5.1 28.6 19.7 73.0 Surface 1.0 283 28.5 8.2 72.9 5.1 10.2 87 <0.2 2.1 0.5 6 4.1 0.3 234 27.7 4.6 13.6 4 88 1.6 8.2 66.3 IM6 Fine 13:34 8.2 Middle 27.7 8.2 21.5 66.3 821050 805829 Rough < 0.2 4.1 242 27.7 8.2 21.5 66.3 4.6 13.5 14 88 <0.2 1.4 0.4 7.2 0.3 182 27.5 8.2 25.3 60.0 4.1 14.8 13 <0.2 2.2 27.5 8.2 25.3 60.1 Bottom 4.1 15.8 0.3 192 27.5 <0.2 <0.2 <0.2 <0.2 1.0 0.2 305 28.7 8.2 19.1 74.2 9.4 6 86 1.3 Surface 28.7 8.2 19.1 74.2 1.0 0.2 320 28.7 8.2 19.2 74.2 5.2 9.7 5 87 4.2 0.1 215 28.2 4.4 15.3 6 87 1.3 IM7 Fine Rough 13:26 8.3 Middle 28.2 8.2 21.1 63.0 821334 806848 <0.2 87 1.3 4.2 0.1 221 28.2 8.2 21.2 63.0 4.4 15.1 5 <0.2 7.3 0.2 164 28.2 8.2 21.4 62.9 4.4 12.1 5 91 2.1 8.2 21.4 63.1 7.3 0.2 166 28.2 8.2 21.4 63.2 11 12.0 5 91 <0.2 2.2 1.0 1.0 42 28.8 7 9 20.1 77.2 5.3 7.4 11 87 <0.2 1.1 7.9 Surface 20.1 77.0 <0.2 1.0 11 42 28.8 79 20.1 76.8 5.3 7.6 12 86 1.0 11 11 42 0.9 49 28.4 79 21.4 71.4 49 8.8 89 90 <0.2 1.2 IM8 Fine Calm 13:51 8.4 Middle 7.9 21.4 71.4 90 821820 808151 <0.2 4.2 1.0 53 28.4 7.9 21.4 71.3 4.9 8.8 7.4 0.7 43 27.9 7.9 23.7 69.3 4.8 9.0 11 93 <0.2 1.3 7.9 Bottom 27.9 23.7 70.2 4.9 7.4 27.9

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during Mid-Ebb Tide Water Quality Monitoring Results on 29 May 21 DO Saturation Dissolved Suspended Solids Total Alkalinit Salinity (ppt) Turbidity(NTU) Coordinate Coordinate Nickel (µg/L) Sampling Water Water Temperature (°C) Monitoring Current Speed Oxvaen (ma/L) (maga) Sampling Depth (m) HK Grid HK Grid Station Direction Time Value Value Average Value Average Value Average Value DA Value DA Value DA DA Value DA Value DA Condition Condition Depth (m) (m/s) Average Value (Northing) (Easting) 1.4 28.8 Surface 20.2 78.9 1.0 1.4 61 28.8 78.8 5.4 6.1 11 87 4.0 1.2 57 28.8 7.9 20.3 77.2 5.3 7.6 12 89 <0.2 1.0 IM9 77.2 808796 Fine Calm 13:57 8.0 Middle 28.8 7.9 20.3 11 90 822111 <0.2 4.0 1.3 59 28.8 7.9 20.3 77 1 5.3 7.3 11 91 <0.2 1.1 7.0 1.6 54 28.4 7 9 21.7 78.9 5.4 8.7 11 92 <0.2 1.2 7.9 22.0 79.8 Bottom 28.5 7.0 1.7 55 28.6 7 9 22.3 80.7 5.5 8.9 12 92 <0.2 1.4 1.0 1.4 80 29.0 18.9 79.4 5.5 7.0 13 86 <0.2 1.4 Surface 29.0 7.9 18.9 79.1 <0.2 1.5 81 29.0 7.9 18.9 78.8 5.5 7.0 12 87 1.4 4.4 1.7 74 28.6 7.9 20.3 75.3 8.4 12 11 91 91 <0.2 1.2 IM10 Calm 14:04 8.8 Middle 7.9 20.3 75.2 12 822405 809814 1.3 4.4 28.6 1.7 80 7.9 20.4 75.1 5.2 8.9 7.8 2.0 62 28.6 7.9 20.6 76.5 5.3 9.2 10 92 < 0.2 Bottom 28.6 7.9 20.6 76.9 5.3 11 7.8 2.0 66 28.6 79 77.3 5.3 99 12 20.6 92 <0.2 1.5 29.3 12 80 8.9 < 0.2 1.2 8.0 83.6 5.8 Surface 29.2 8.0 18.0 82.9 1.0 11 87 < 0.2 1.1 1.5 80 29.2 8.0 18.1 82.1 5.7 8.7 10 9 <0.2 1.1 28.7 9.1 90 91 4.6 20.2 77.1 5.3 IM11 Fine Calm 14:14 9.2 Middle 28.6 7.9 20.2 77.0 10 90 822037 811449 <0.2 1.2 4.6 1.6 28.6 5.3 9.1 75 7.9 20.2 76.9 <0.2 8.2 1.8 61 28.5 7.9 10.1 9 92 1.2 78.9 5.5 7.9 21.0 79.6 Bottom 28.5 21.0 5.5 8.2 1.9 62 28.5 7.9 21.0 5.5 10.0 10 91 <0.2 1.2 80.3 0.5 29.0 14 <0.2 8.0 79.8 5.5 Surface 29.0 8.0 19.7 79.5 1.0 0.5 100 29.0 8.0 79.2 5.5 7.0 13 86 <0.2 1.1 5.0 116 5.0 8.1 12 87 <0.2 1.0 0.4 28.6 7.9 21.2 72.6 14:20 812050 IM12 Fine Calm 10.0 Middle 28.5 7.9 21.2 72.4 12 88 821460 1.0 < 0.2 5.0 8.8 12 0.4 122 28.5 0.2 28.3 7.9 9.9 11 <0.2 1.0 22.2 73.8 5.1 7.9 73.8 5.1 Rottom 28.3 22.2 9.0 0.3 95 28.3 7.9 73.8 5.1 9.2 11 29.1 8.0 5.5 9.3 10 20.9 81.0 Surface 29.1 8.0 20.9 81.0 1.0 29.1 5.5 9.3 10 2.1 SR1A Fine Calm 14:52 4.2 Middle 819982 812655 2.1 3.2 28.7 8.0 90.9 6.3 9.1 10 Bottom 28.7 8.0 21.3 90.9 6.3 3.2 28.7 8.0 90.9 6.3 9.0 10 1.0 17 52 29.4 8.0 85.7 6.0 7.2 13 90 <0.2 1.2 Surface 29.4 8.0 17.4 85.6 1.0 1.8 56 29.4 8.0 17.4 85.4 5.9 7.0 12 90 < 0.2 1.2 SR2 15:07 5.0 Middle 821455 814183 1.2 17 14 92 4.0 44 28.6 83 <0.2 11 5.6 21.1 8.0 83.3 5.7 44 21 1 8.0 15 4 0 1.8 28.6 92 12 1.0 0.0 246 28.9 8.0 20.1 79.7 5.5 7.5 11 Surface 28.9 8.0 20.1 79.5 5.5 8.0 20.1 79.3 7.6 12 1.0 0.0 254 28.9 4.9 194 21.7 8.1 12 13 0.1 28.3 7.9 71.4 4.9 SR3 Calm 13:44 9.8 Middle 7.9 21.7 71.5 12 822131 807576 8.2 0.1 4.9 4.9 208 28.4 13 12 8.8 0.1 258 28.2 7.9 7.9 22.3 71.5 4.9 5.0 9.0 9.1 Bottom 28.2 7.9 22.3 71.8 5.0 8.8 0.1 273 28.2 256 28.9 1.0 0.2 8.1 19.7 78.2 5.4 8.0 8 Surface 28.9 8.1 19.7 78.1 8.1 19.7 77.9 1.0 0.2 271 28.9 5.4 8.2 7 4.5 0.1 259 27.2 14.3 6 8.1 23.3 62.7 4.4 SR4A 14:53 23.3 62.6 817210 807827 Fine Rough 8.9 Middle 27.2 8.1 4.5 8.1 23.2 62.5 4.4 14.8 4 0.1 281 27.1 12 7.9 0.1 75 26.9 26.9 27.3 27.3 3.9 4.0 12.6 12.2 8.1 8.1 27.3 57.6 4.0 Rottom 26.9 0.1 76 17 1.0 0.1 15 29.1 19.6 19.6 19.6 82.0 12.9 8.1 5.7 8.1 82.0 Surface 29.1 1.0 0.1 16 29.1 8.1 5.7 12.9 18 SR5A 15:12 4.2 Middle 14 816585 810710 Fine Moderate 3.2 0.1 50 29.1 19.6 82.4 10.9 10 29.1 8.1 19.6 82.5 Bottom 8.1 19.6 10 51 29.1 1.0 0.1 83 29.0 7.8 5 Surface 29.0 8.1 20.5 76.7 1.0 0.1 86 28.9 8.1 20.6 76.7 5.3 7.9 10 SR6A Fine Moderate 15:36 4.5 Middle 817944 814736 3.5 0.0 54 28.6 8.1 4.9 9.6 20 28.7 8.1 21.3 71.7 4.9 3.5 0.0 57 28.7 8 1 71.8 10 9.6 10 1.0 1.0 118 28.7 8.0 21.7 75.3 7.5 10 Surface 8.0 21.7 75.3 1.0 1.0 129 28.6 8.0 21.7 75.2 5.2 7.5 11 9.0 0.7 126 28.3 8.0 23.3 74.8 5.1 8.0 13 12 SR7 Fine Calm 15:51 18.0 Middle 8.0 23.2 74.9 12 823619 823739 9.0 0.7 130 28.3 8.0 23.2 74.9 5.1 8.0 17.0 0.3 184 28.5 8.0 23.0 82.1 5.6 9.6 13 Bottom 28.5 8.0 22.8 83.5 17.0 0.3 199 28.6 8.0 22.6 84.9 5.8 9.6 12 1.0 29.7 7.9 21.4 82.3 5.6 10.0 13 Surface 29.6 7.9 21.4 82.4 1.0 29.6 7.9 21.4 82.4 5.6 10.0 9 820376 811642 SR8 Fine Calm 14:29 5.4 Middle 11 12 4.4 29.4 11.5 8.0 21.4 86.3 5.9 29.5 8.0 21.4 87.8 6.0

DA: Depth-Averaged

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

Water Quality Monitoring Results on during Mid-Flood Tide 29 May 21 DO Saturation Dissolved Suspended Solids Total Alkalinit Water Temperature (°C) Salinity (ppt) Turbidity(NTU) Coordinate Coordinate Nickel (µg/L) Sampling Water Monitoring Current Speed Oxvaen (ma/L) Sampling Depth (m) HK Grid HK Grid Direction Value DA Time Value Average Value Average Value Average Value Average Value DA Value DA Value DA DA Value DA Condition Condition Depth (m) (m/s) Value (Northing) (Easting) 0.7 28.2 74.6 1.2 Surface 28.2 8.1 18.5 74.5 1.0 0.8 32 28.1 8.1 18.4 74.4 5.3 9.9 86 <0.2 1.3 4.2 0.6 25 27.3 10.1 <0.2 1.3 C1 8 1 25.4 57.8 804224 08:37 84 Middle 27.3 87 815621 13 Fine Moderate -n 2 57.8 4.0 87 1.2 4.2 0.6 26 27.2 8.1 25.5 10.8 4 7.4 0.4 47 27.0 8.1 26.8 59.0 4.1 11.4 3 89 <0.2 1.3 8.1 27.0 26.8 59.1 41 Rottom 8.1 26.9 59.2 4.1 11.9 <0.2 7.4 0.4 50 27.0 4 89 1.4 1.0 8.0 14.5 5.8 Surface 29.1 8.0 14.5 80.8 7.5 <0.2 <0.2 <0.2 1.8 8.0 14.5 80.4 5.7 86 1.3 1.0 1.4 55 28.6 1.3 6 89 7.9 19.7 71.6 5.0 C2 Fine Calm 09:32 13.4 Middle 28.6 7.9 19.7 71.7 89 825667 806967 <0.2 1.3 1.5 7.9 19.7 71.7 5.0 8.6 7 89 6.7 55 28.6 20.4 76.7 12.4 1.5 56 28.6 7.9 9.1 6 91 <0.2 1.2 21.1 5.3 7.9 77.7 Bottom 28.6 12.4 1.7 58 28.7 7.9 78.7 9.5 92 <0.2 1.3 0.3 241 28.7 6.3 83 <0.2 1.4 8.0 5.0 28.7 8.0 19.6 72.3 Surface 1.0 0.3 246 28.7 8.0 19.6 72.2 5.0 6.1 83 <0.2 1.4 <0.2 6.1 0.4 7.3 7.7 5 86 86 1.5 252 276 28.3 8.0 22.2 67.8 67.3 C3 07:25 822117 817798 Fine Calm 12.2 Middle 28.2 8.0 22.2 67.6 86 1.4 < 0.2 0.4 28.2 4.6 11.2 0.4 266 27.2 8.0 27.8 67.4 4.6 8.5 <0.2 27.3 8.0 27.7 68.6 4.7 Bottom 11.2 0.4 282 27.3 8.0 27.6 69.8 47 8.8 88 1.2 1.0 0.1 331 28.5 19.7 19.7 19.7 76.2 76.1 5.1 <0.2 1.3 Surface 28.5 8.1 76.2 1.0 353 28.4 8.1 5.3 5.4 12 87 <0.2 1.2 0.1 817933 IM1 Fine Moderate 08:54 5.6 Middle <0.2 4.6 0.1 245 27.7 8.1 23.9 62.7 43 8.0 8 85 <0.2 1.2 Bottom 27.7 8.1 23.9 62.8 4.3 4.6 0.1 259 27.7 8.1 23.9 62.9 43 8.0 8 86 <0.2 1.2 1.0 0.5 28.5 8.1 18.1 78.6 5.5 5.2 8 85 <0.2 1.2 Surface 28.5 8.1 18.0 78.6 <0.2 <0.2 <0.2 <0.2 1.0 0.6 12 28.5 8.1 18.0 78.5 5.5 5.2 9 86 1.4 7.0 7.7 3.7 0.4 353 28.5 8.1 19.6 70.2 4.9 10 87 1.4 IM2 Moderate 09:02 7.4 Middle 8.1 19.6 70.2 818142 806187 1.3 3.7 0.4 325 28.5 8.1 19.6 70.1 4.9 9 88 1.3 q 89 6.4 0.2 288 28.0 8.1 20.1 68.3 4.8 13.4 12 8.1 20.2 67.7 303 13.7 10 6.4 0.2 28.0 8.1 20.3 67.0 47 <0.2 1.1 89 0.6 359 28.5 8.1 18.5 74.6 5.2 5.5 q 86 <0.2 1.6 Surface 8.1 18.5 74.6 1.0 330 1.6 0.7 28.5 8.1 18.5 74.6 5.2 5.6 8 85 <0.2 <0.2 <0.2 0.6 4.7 8.8 9 1.2 4.1 343 28.3 8.1 20.6 67.4 86 IM3 Fine Moderate 09:09 8.1 Middle 28.3 8.1 20.6 67.4 87 818783 805593 <0.2 4.1 9.8 8 1.4 0.6 316 28.2 8.1 20.6 4.7 86 89 0.3 279 27.6 8.1 24.1 61.2 4.2 Bottom 27.6 8.1 24.1 61.3 4.2 7.1 0.3 281 27.6 24.1 61.3 4.2 10.0 8 <0.2 1.4 8.1 89 1.0 1.1 28.4 5.5 85 <0.2 1.2 8.1 18.9 72.9 5.1 8 Surface 28.4 8.1 18.9 72.8 1.2 28.4 5.8 9 85 1.2 <0.2 <0.2 <0.2 4.3 347 10.1 88 1.2 4.5 8 1.0 28.1 8.1 20.9 65.0 IM4 Fine 09:19 8.5 Middle 28.1 8.1 20.9 64.8 88 819726 804605 <0.2 1.2 Moderate 4.3 1.0 359 28.0 8.1 4.5 10.0 9 87 20.9 345 13.8 5 1.1 0.6 8.1 23.8 62.5 4.3 8.1 27.7 23.8 62.6 43 Rottom 7.5 0.6 346 27.7 13.1 <0.2 1.2 28.4 1.0 1.3 10 18.2 5.4 86 <0.2 1.4 8.1 76.2 5.4 5 Surface 28.4 8.1 76.1 18.2 1.0 1.4 10 28.4 5.3 5.5 86 <0.2 1.5 4.0 4.8 15.8 9 87 <0.2 1.4 28.2 8.1 20.3 68.8 IM5 Fine Moderate 09:24 8.0 Middle 28.2 8.1 20.3 68.7 87 820730 804874 < 0.2 4.0 1.2 28.2 15.5 10 <0.2 28.1 8.1 8.1 21.1 67.4 67.5 4.7 14.0 9 89 28.1 8.1 21.1 67.5 Bottom 7.0 0.8 16 28.1 14.7 89 1.1 1.0 0.2 264 29.0 8.1 16.6 79.4 3.8 10 86 <0.2 1.5 Surface 8.1 16.6 79.4 1.0 0.2 287 29.0 8.1 16.7 79.3 5.6 4.1 9 86 <0.2 1.7 4.2 0.1 12 28.0 8.1 18.6 5.1 10.8 9 87 Fine Moderate 09:32 8.4 Middle 28.0 8.1 18.6 72.5 821038 805835 4.2 0.1 13 27.9 8.1 18.6 72.3 5.1 10.6 8 87 <0.2 4.1 1.9 7.4 0.1 309 27.5 8.0 24.6 58.9 10.2 7 89 74 0.1 335 27.5 8.0 10.8 8 90 1.0 0.2 227 28.9 8.1 17.3 74.0 47 6 87 <0.2 1.3 Surface 17.3 73.9 <0.2 <0.2 <0.2 230 147 8.1 5.2 47 1 4 1.0 0.2 28.8 17.4 73.8 87 6 7 88 4.3 0.2 28.3 8.9 1.4 8.1 19.7 69.8 4.9 IM7 Moderate 09:40 8.6 Middle 28.3 19.8 69.6 821339 806818 88 1.3 4.3 0.2 161 28.3 8.1 19.8 69.4 4.8 8.2 <0.2 7.6 0.1 130 28.1 8.1 21.6 65.5 4.5 8.8 7 90 1.3 Bottom 28.1 8.1 21.7 65.5 45 7.6 0.2 139 28.1 8.1 21.8 65.4 4.5 8.6 < 0.2 1.3 1.0 0.4 71 28.9 7.9 18.1 74.1 5.2 6.4 5 86 <0.2 1.2 Surface 28.9 7.9 18.0 74.1 7.9 17.9 86 74.1 1.3 1.0 0.4 77 28.9 6.2 6 4.4 0.3 28.7 7.6 6 91 <0.2 1.2 60 7.9 19.2 74.4 5.2 7.9 19.2 74.6 821818 808141 IM8 Fine Calm 09:05 8.8 Middle 28.7 90 <0.2 1.3 7.9 19.2 7 74.8 7.9 91 4.4 64 28.7 5.2 0.3

7.9 7.9

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DA: Depth-Averaged

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

7.8

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54

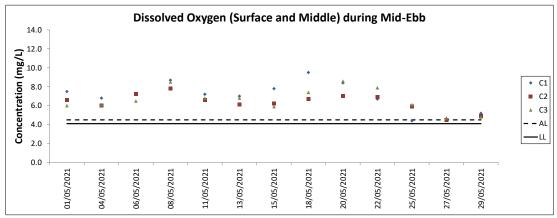
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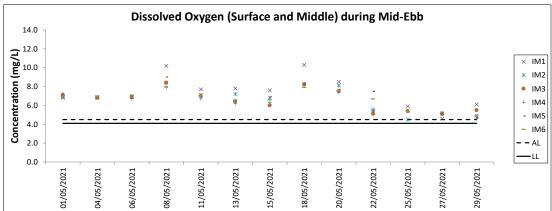
during Mid-Flood Tide Water Quality Monitoring Results on 29 May 21 DO Saturation Dissolved Suspended Solids Total Alkalinit Salinity (ppt) Turbidity(NTU) Coordinate Coordinate Nickel (µg/L) Sampling Water Water Temperature (°C) Monitoring Speed Current Oxvaen (ma/L) Sampling Depth (m) HK Grid HK Grid Station Direction Condition Time Value Average Value Average Value Average Value Average Value DA Value DA Value DA DA Value DA Value DA Condition Depth (m) (m/s) Value (Northing) (Easting) 28.9 1.9 1.4 19.1 72.6 1.0 54 28.9 19.1 72.3 5.0 6.1 1.4 41 1.5 50 28.8 7.9 19.5 71.7 5.0 7.2 6 89 <0.2 1.4 IM9 08:57 19.5 71.7 808790 Fine Calm 8.2 Middle 28.8 7.9 89 822077 <0.2 4.1 1.6 51 28.8 7.9 19.5 71 7 5.0 7.2 6 91 <0.2 1.4 7.2 1.8 46 28.8 7 9 19.7 72.5 5.0 8.8 8 90 <0.2 1.2 7.9 19.7 73.1 Bottom 28.8 7.2 1.9 46 28.8 7 9 19.7 73.7 5.1 8.8 8 91 <0.2 1.2 1.0 2.8 28.8 19.0 5.0 6.3 83 <0.2 1.4 Surface 28.8 7.9 19.1 71.9 <0.2 2.9 25 28.7 7.9 19.1 71.1 5.0 6.8 7 83 1.5 4.5 2.7 29 28.3 7.9 22.3 68.6 4.7 7.5 7.0 8 7 87 88 <0.2 1.4 IM10 Calm 08:49 9.0 Middle 7.9 22.3 68.6 822398 809796 4.5 29 28.2 2.9 7.9 22.4 68.5 4.7 28.2 8.2 12 8.0 2.4 34 7.9 23.4 70.7 4.8 90 < 0.2 1.0 Bottom 28.2 7.9 23.4 71.7 4.9 11 8.0 2.5 35 28.2 79 23.3 72 7 5.0 8.0 11 90 <0.2 1.3 349 28.7 84 <0.2 1.4 8.0 4.9 Surface 28.7 8.0 19.0 70.9 1.0 321 7.3 84 <0.2 1.3 1.4 28.7 8.0 19.0 70.7 4.9 6 8.3 28.2 28.2 86 85 <0.2 1.4 1.0 340 350 4.7 4.7 67.9 IM11 Fine Calm 08:40 9.4 Middle 28.2 7.9 22.2 68.0 85 822060 811472 <0.2 1.0 8.9 7.9 <0.2 8.4 0.9 28.0 7.9 9.6 9 87 1.2 23.6 72.1 5.0 7.9 72.2 Bottom 28.0 23.6 5.0 8.4 0.9 28.0 7.9 23.6 72.3 5.0 9.6 8 86 <0.2 1.3 40 28.6 5.7 <0.2 1.2 73.1 Surface 28.6 7.9 20.5 72.9 1.0 1.5 40 28.6 20.5 72.6 5.0 5.9 84 <0.2 1.3 5.0 1.8 4.7 6.1 6 85 <0.2 1.3 28.2 7.9 22.6 68.4 821470 812031 IM12 Fine Calm 08:32 10.0 Middle 28.2 7.9 22.5 68.3 86 1.3 < 0.2 5.0 1.9 6.8 28.2 2.0 27.9 7.9 24.1 4.8 7.4 13 <0.2 1.2 70.2 7.9 70.9 Rottom 28.0 24.1 49 9.0 2.2 45 28.0 7.9 71.5 4.9 7.6 12 28.9 7.9 19.3 19.5 9.5 75.1 5.2 Surface 28.9 7.9 19.4 75.7 1.0 28.9 5.3 9.6 5 2.1 SR1A Fine Calm 08:07 4.2 Middle 819973 812659 2.1 3.2 28.9 7.9 19.3 5.4 10.1 6 Bottom 28.8 7.9 19.5 80.0 5.6 3.2 28.8 79 19.7 82.2 5.7 10.0 7 1.0 2.0 145 28.7 7.9 19.1 7.2 6 85 <0.2 1.4 Surface 28.6 7.9 19.1 73.3 1.0 2.2 149 28.6 7.9 19.2 73.2 5.1 7.5 5 84 <0.2 1.4 SR2 07:46 5.0 Middle 821472 814163 1.2 4 0 19 149 5.2 5.4 11 1.1 28.3 8.6 86 <0.2 77.0 5.3 22.2 7.9 22.2 78.0 4.0 8.4 10 19 153 28.3 87 1.0 1.0 1.6 48 29.0 8.0 14.9 78.3 5.5 5.4 4 Surface 29.0 7.9 15.5 78.2 5.5 17 7 9 16.1 78 N 5.6 5 1.0 51 29.0 5.0 52 6.3 5 1.6 28.8 7.9 19.1 72.7 72.6 5.1 SR3 Calm 09:11 10.0 Middle 19.1 72.7 822135 807576 1.7 19.1 5.0 6.2 52 28.7 5.0 9.0 2.1 53 28.7 7.9 7.9 20.2 74.4 5.1 5.3 7.8 7.6 5 6 Bottom 28.7 7.9 20.2 75.3 5.2 9.0 2.1 53 28.7 1.0 28.6 0.3 242 8.0 19.0 72.4 5.1 7.4 8 Surface 28.6 8.0 19.0 72.4 28.6 8.0 19.0 72.3 5.1 7.6 1.0 0.3 263 4.4 0.2 245 8.4 6 28.0 8.1 20.9 62.3 4.3 SR4A 08:13 21.5 62.0 817180 807786 Fine Moderate 8.8 Middle 28.0 8.1 4.4 8.1 22.2 4.3 8.7 7 0.2 252 27.9 7.8 0.1 47 27.6 27.6 24.4 60.0 10.0 6 7 8.0 8.0 60.2 4.1 42 27.6 24.4 Rottom 0.1 51 4.2 10.0 1.0 0.2 273 28.8 19.6 19.7 19.6 72.7 72.6 8.8 8.1 5.0 28.8 8.1 72.7 Surface 1.0 0.2 279 28.8 8.1 5.0 9.3 6 SR5A 07:55 4.6 Middle 816595 810716 Fine Moderate 3.6 0.2 283 28.8 19.8 72.3 5.0 11.1 28.8 8.1 19.8 72.3 5.0 Bottom 8.1 19.8 11.3 3.6 0.2 295 28.8 1.0 0.1 288 28.9 17.8 73.9 Surface 28.9 8.1 17.9 73.9 1.0 0.1 295 28.9 8.1 17.9 73.8 5.2 5.7 4 SR6A Cloudy Moderate 07:29 4.1 Middle 817940 814748 3.1 0.1 322 28.8 8.1 18.5 73.1 5.1 6.9 4 28.8 8.1 18.5 73.2 3.1 0.1 328 28.8 8 1 18.5 73.2 5.1 7 1 3 1.0 0.0 116 28.8 8.0 19.8 74 1 6.5 4 74.0 Surface 8.0 19.8 1.0 0.0 119 28.7 8.0 19.8 73.8 5.1 6.5 4 9.0 0.1 184 27.7 8.0 24.1 65.5 5.0 7.2 7.1 7 SR7 Fine Calm 06:55 18.0 Middle 27.7 8.0 24.2 65.3 823637 823739 6 9.0 0.1 192 27.6 8.0 24.3 65.1 5.0 17.0 0.1 76 26.9 8.0 28.8 65.9 4.5 8.0 7 Bottom 27.0 8.0 28.7 67.6 17.0 0.1 76 27.2 8.0 28.5 69.3 4.7 8.2 1.0 28.8 7.9 19.5 73.1 5.1 8.1 9 Surface 28.8 7.9 19.5 73.2 1.0 28.8 7.9 19.5 73.2 5.1 8.3 8 820412 811629 SR8 Fine Calm 08:23 5.4 Middle 10 11 4.4 28.6 7.9 9.3 20.9 77.1 5.3 28.7 7.9 20.9 79.7 5.5

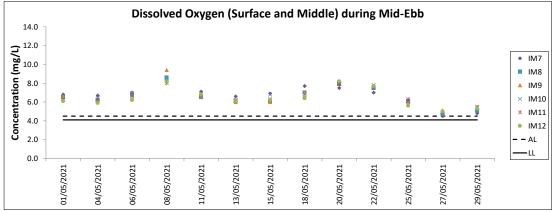
DA: Depth-Averaged

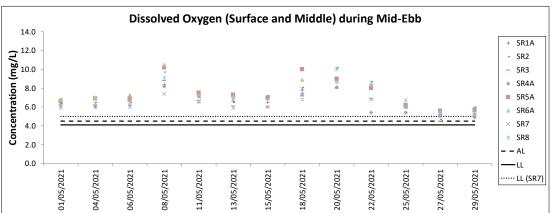
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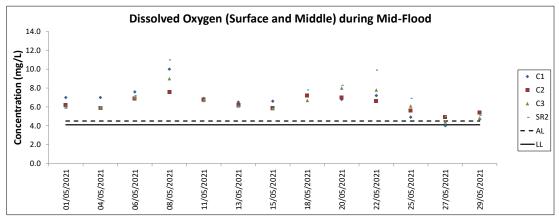
Value exceeding Action Level is underlined: Value exceeding Limit Level is bolded and underlined

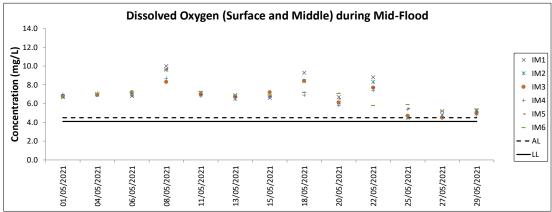


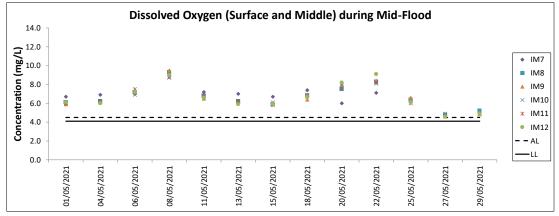


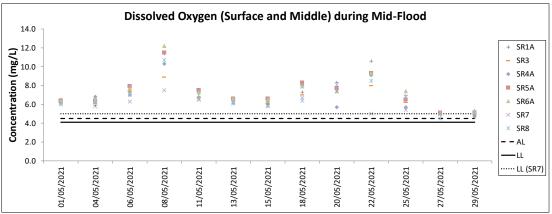


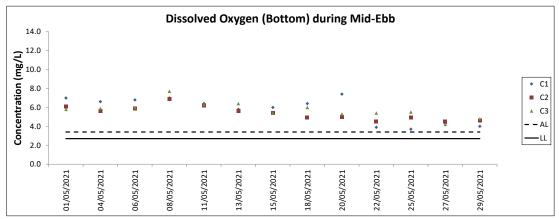


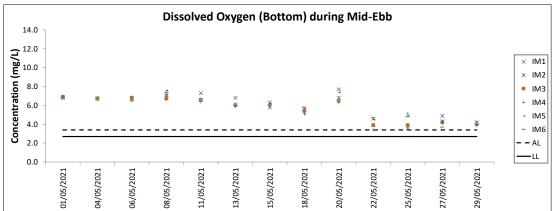


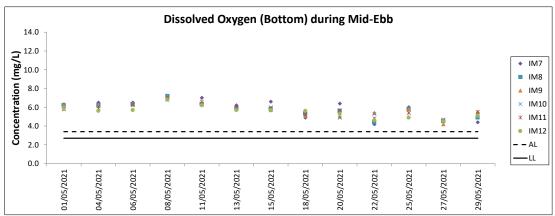


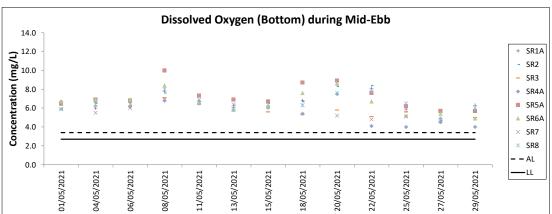


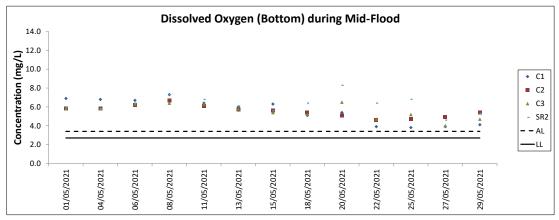


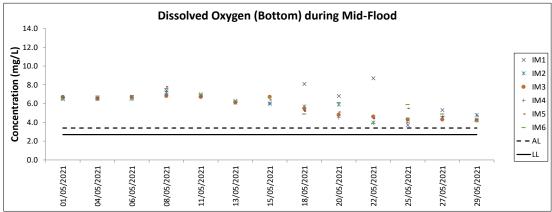


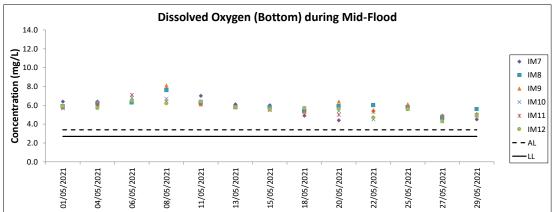


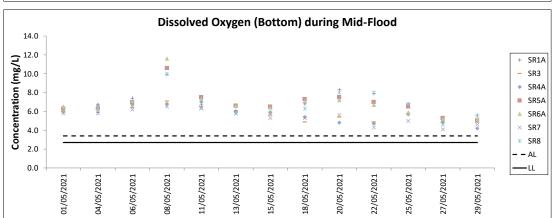


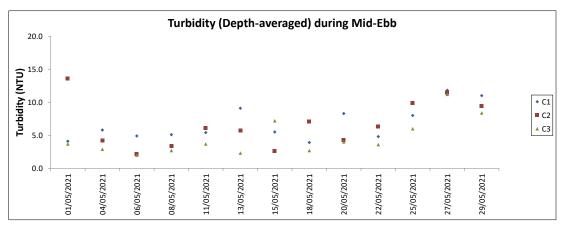


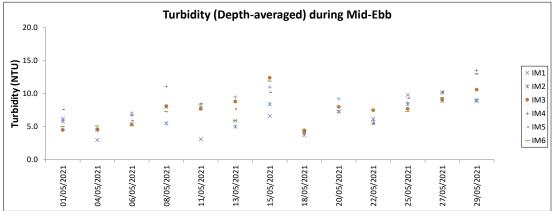


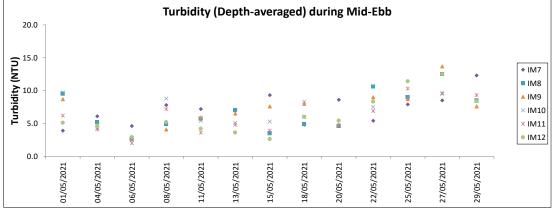


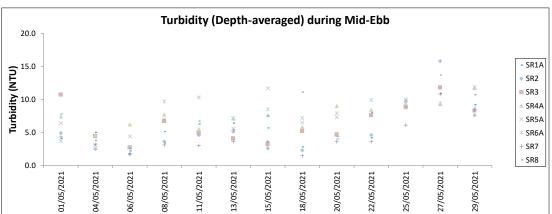




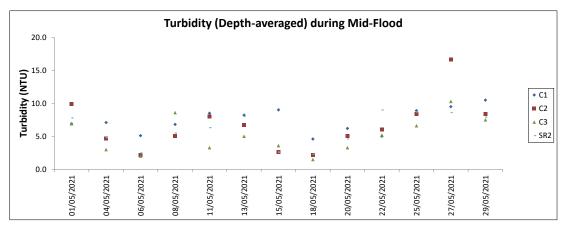


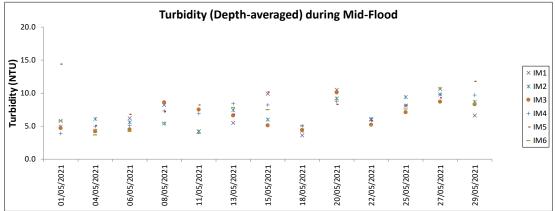


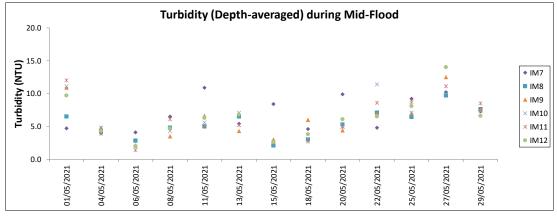


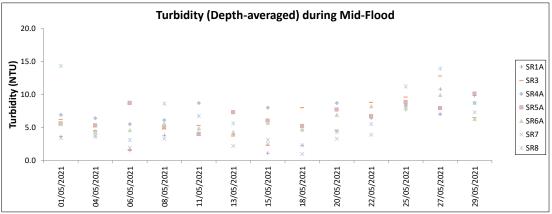


Note: The Action and Limit Level of turbidity can be referred to Table 4.2 of the monthly EM&A report

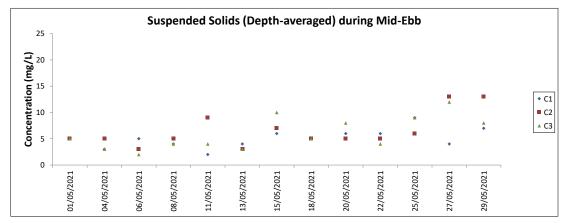


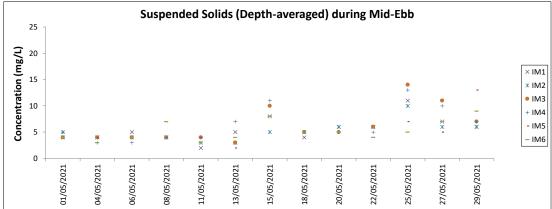


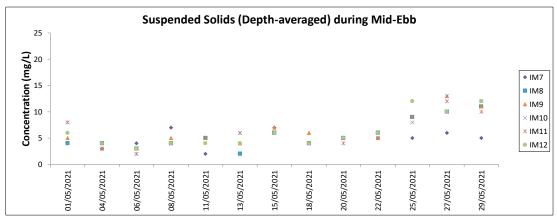


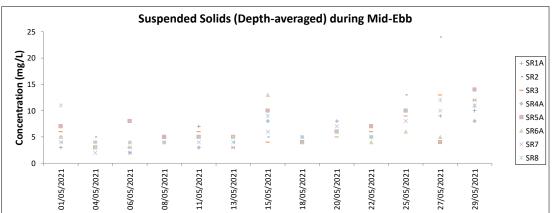


Note: The Action and Limit Level of turbidity can be referred to Table 4.2 of the monthly EM&A report.

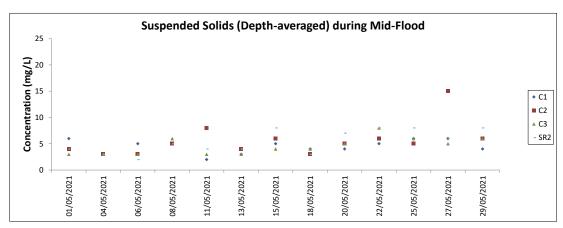


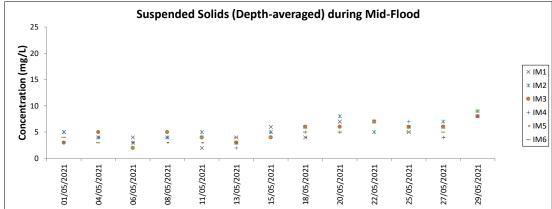


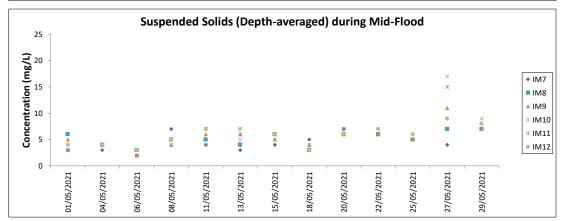


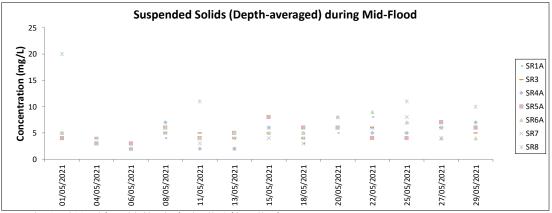


Note: The Action and Limit Level of suspended solids can be referred to Table 4.2 of the monthly EM&A report.

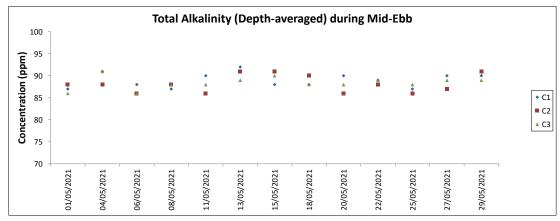


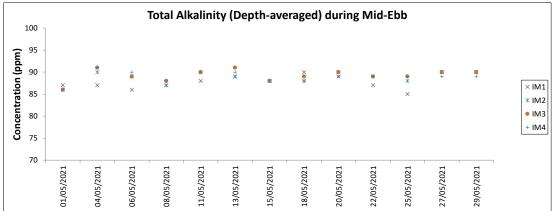


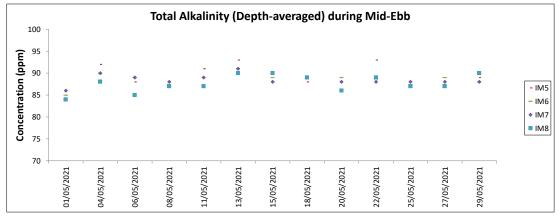


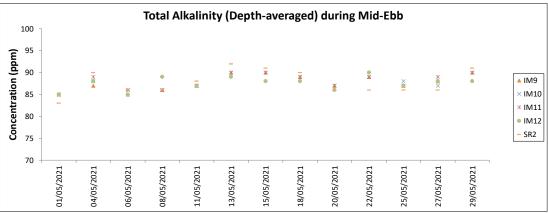


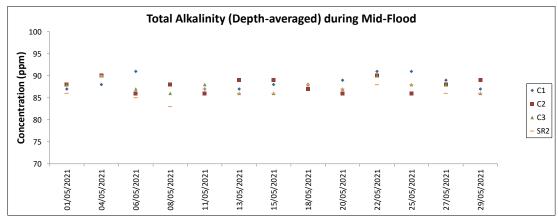
The Action and Limit Level of suspended solids can be referred to Table 4.2 of the monthly EM&A report.

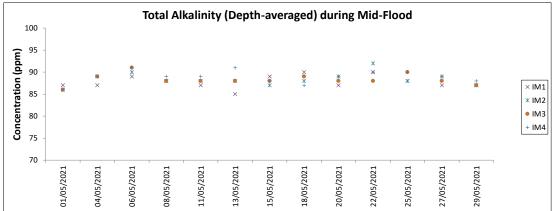


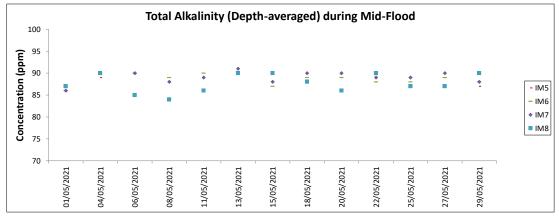


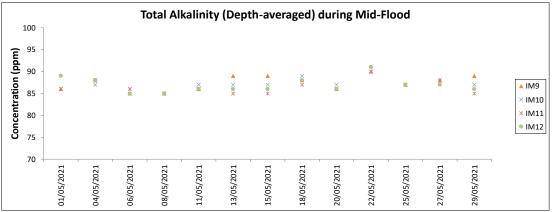


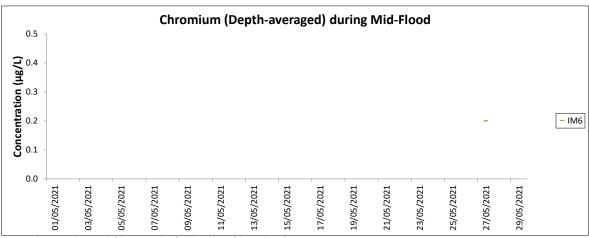






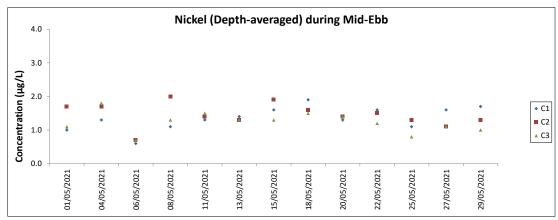


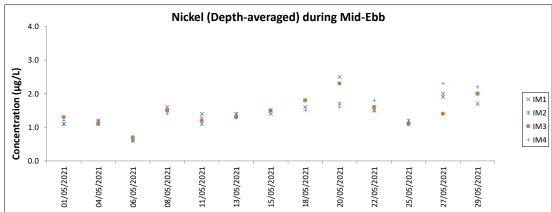


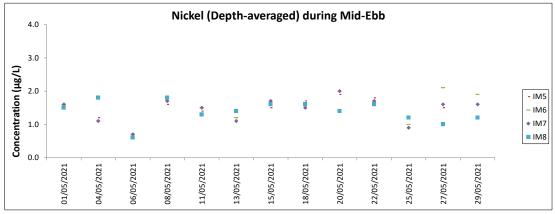


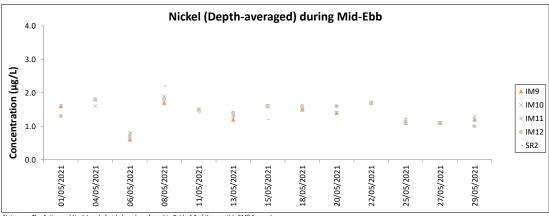
Note: The Action and Limit Level of chromium can be referred to Table 4.2 of the monthly EM&A report.

All other chromium in the reporting period was below the reporting limit 0.2 μg/L.

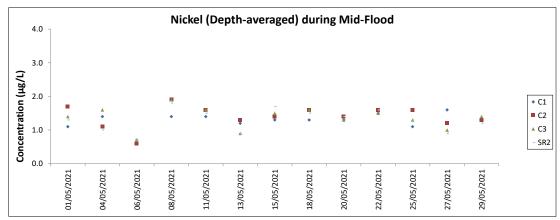


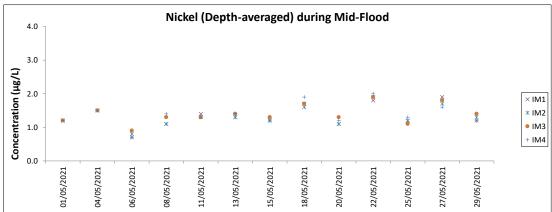


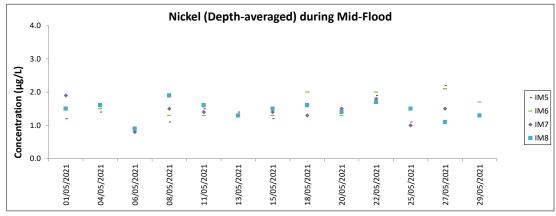


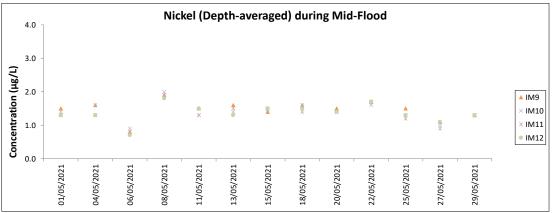


Note: The Action and Limit Level of nickel can be referred to Table 4.2 of the monthly EM&A repor









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

DATE	AREA	BEAU	KM SEARCHED	SEASON	VESSEL	TYPE	P/S
3-Mar-21	NEL	3	37.340	SPRING	32166	3RS ET	Р
3-Mar-21	NEL	3	9.760	SPRING	32166	3RS ET	S
8-Mar-21	NWL	2	1.100	SPRING	32166	3RS ET	Р
8-Mar-21	NWL	3	35.740	SPRING	32166	3RS ET	Р
8-Mar-21	NWL	4	26.780	SPRING	32166	3RS ET	Р
8-Mar-21	NWL	2	2.300	SPRING	32166	3RS ET	S
8-Mar-21	NWL	3	5.000	SPRING	32166	3RS ET	S
8-Mar-21	NWL	4	3.900	SPRING	32166	3RS ET	S
9-Mar-21	AW	3	4.720	SPRING	32166	3RS ET	Р
9-Mar-21	WL	2	9.720	SPRING	32166	3RS ET	Р
9-Mar-21	WL	3	10.360	SPRING	32166	3RS ET	Р
9-Mar-21	WL	2	6.740	SPRING	32166	3RS ET	S
9-Mar-21	WL	3	4.630	SPRING	32166	3RS ET	S
10-Mar-21	NEL	2	1.100	SPRING	32166	3RS ET	Р
10-Mar-21	NEL	3	25.400	SPRING	32166	3RS ET	Р
10-Mar-21	NEL	4	10.430	SPRING	32166	3RS ET	Р
10-Mar-21	NEL	3	7.070	SPRING	32166	3RS ET	S
10-Mar-21	NEL	4	3.100	SPRING	32166	3RS ET	S
12-Mar-21	SWL	1	3.850	SPRING	32166	3RS ET	Р
12-Mar-21	SWL	2	49.702	SPRING	32166	3RS ET	Р
12-Mar-21	SWL	3	0.900	SPRING	32166	3RS ET	Р
12-Mar-21	SWL	2	14.678	SPRING	32166	3RS ET	S
12-Mar-21	SWL	3	1.100	SPRING	32166	3RS ET	S
15-Mar-21	AW	2	1.910	SPRING	32166	3RS ET	Р
15-Mar-21	AW	3	2.740	SPRING	32166	3RS ET	Р
15-Mar-21	WL	2	16.658	SPRING	32166	3RS ET	Р
15-Mar-21	WL	3	3.340	SPRING	32166	3RS ET	Р
15-Mar-21	WL	2	9.742	SPRING	32166	3RS ET	S
16-Mar-21	NWL	2	58.960	SPRING	32166	3RS ET	Р
16-Mar-21	NWL	3	3.860	SPRING	32166	3RS ET	Р
16-Mar-21	NWL	2	8.700	SPRING	32166	3RS ET	S
16-Mar-21	NWL	3	1.900	SPRING	32166	3RS ET	S
17-Mar-21	SWL	2	49.752	SPRING	32166	3RS ET	Р
17-Mar-21	SWL	3	2.340	SPRING	32166	3RS ET	Р
17-Mar-21	SWL	2	15.682	SPRING	32166	3RS ET	S
7-Apr-21	NWL	2	5.840	SPRING	32166	3RS ET	Р
7-Apr-21	NWL	3	45.160	SPRING	32166	3RS ET	Р
7-Apr-21	NWL	4	12.900	SPRING	32166	3RS ET	Р
7-Apr-21	NWL	3	8.800	SPRING	32166	3RS ET	S
7-Apr-21	NWL	4	2.600	SPRING	32166	3RS ET	S
12-Apr-21	AW	2	2.950	SPRING	32166	3RS ET	Р
12-Apr-21	AW	3	1.920	SPRING	32166	3RS ET	Р
12-Apr-21	WL	2	14.085	SPRING	32166	3RS ET	Р
12-Apr-21	WL	3	4.941	SPRING	32166	3RS ET	Р
12-Apr-21	WL	2	7.213	SPRING	32166	3RS ET	S
12-Apr-21	WL	3	2.029	SPRING	32166	3RS ET	S
12-Apr-21	WL	4	0.970	SPRING	32166	3RS ET	S

DATE	AREA	BEAU	KM SEARCHED	SEASON	VESSEL	TYPE	P/S
13-Apr-21	SWL	1	1.810	SPRING	32166	3RS ET	Р
13-Apr-21	SWL	2	43.686	SPRING	32166	3RS ET	Р
13-Apr-21	SWL	3	7.090	SPRING	32166	3RS ET	Р
13-Apr-21	SWL	2	13.349	SPRING	32166	3RS ET	S
13-Apr-21	SWL	3	2.280	SPRING	32166	3RS ET	S
14-Apr-21	NEL	3	37.080	SPRING	32166	3RS ET	Р
14-Apr-21	NEL	3	9.920	SPRING	32166	3RS ET	S
15-Apr-21	NEL	3	29.770	SPRING	32166	3RS ET	Р
15-Apr-21	NEL	4	7.400	SPRING	32166	3RS ET	Р
15-Apr-21	NEL	3	7.730	SPRING	32166	3RS ET	S
15-Apr-21	NEL	4	2.100	SPRING	32166	3RS ET	S
19-Apr-21	NWL	3	24.300	SPRING	32166	3RS ET	Р
19-Apr-21	NWL	4	33.330	SPRING	32166	3RS ET	Р
19-Apr-21	NWL	5	6.370	SPRING	32166	3RS ET	Р
19-Apr-21	NWL	3	5.900	SPRING	32166	3RS ET	S
19-Apr-21	NWL	4	2.900	SPRING	32166	3RS ET	S
19-Apr-21	NWL	5	3.000	SPRING	32166	3RS ET	S
20-Apr-21	AW	3	4.860	SPRING	32166	3RS ET	P
20-Apr-21	WL	2	1.600	SPRING	32166	3RS ET	Р
20-Apr-21	WL	3	18.466	SPRING	32166	3RS ET	Р
20-Apr-21	WL	2	1.100	SPRING	32166	3RS ET	S
20-Apr-21	WL	3	9.774	SPRING	32166	3RS ET	S
21-Apr-21	SWL	3	25.980	SPRING	32166	3RS ET	P
21-Apr-21	SWL	4	13.080	SPRING	32166	3RS ET	Р
21-Apr-21	SWL	5	15.050	SPRING	32166	3RS ET	P
21-Apr-21	SWL	3	8.070	SPRING	32166	3RS ET	S
21-Apr-21	SWL	4	4.740	SPRING	32166	3RS ET	S
21-Apr-21	SWL	5	3.380	SPRING	32166	3RS ET	S
6-May-21	NEL	3	30.130	SPRING	32166	3RS ET	P
6-May-21	NEL	4	7.170	SPRING	32166	3RS ET	Р
6-May-21	NEL	3	10.100	SPRING	32166	3RS ET	S
11-May-21	AW	3	4.870	SPRING	32166	3RS ET	P
11-May-21	WL	3	17.180	SPRING	32166	3RS ET	P
11-May-21	WL	4	3.240	SPRING	32166	3RS ET	P
11-May-21	WL	3	7.890	SPRING	32166	3RS ET	S
11-May-21	WL	4	1.970	SPRING	32166	3RS ET	S
20-May-21	NWL	3	41.600	SPRING	32166	3RS ET	P
20-May-21	NWL	4	22.100	SPRING	32166	3RS ET	Р
20-May-21	NWL	3	6.000	SPRING	32166	3RS ET	S
20-May-21 20-May-21	NWL	4	5.400	SPRING	32166	3RS ET	S
21-May-21	NEL	2	0.669	SPRING	32166	3RS ET	P
21-May-21	NEL	3	36.410	SPRING	32166	3RS ET	P
21-May-21	NEL	2	0.941	SPRING	32166	3RS ET	S
21-May-21 21-May-21	NEL	3	8.580	SPRING	32166	3RS ET	S
25-May-21	SWL	1	4.200	SPRING	32166	3RS ET	P
25-May-21 25-May-21	SWL	2	26.979	SPRING	32166	3RS ET	P
25-May-21	SWL	3	20.210	SPRING	32166	3RS ET	P
25-May-21	SWL	4	1.310	SPRING	32166	3RS ET	P
				SPRING			
25-May-21	SWL	1	3.900	OI KING	32166	3RS ET	S

DATE	AREA	BEAU	KM SEARCHED	SEASON	VESSEL	TYPE	P/S
25-May-21	SWL	2	5.088	SPRING	32166	3RS ET	S
25-May-21	SWL	3	6.580	SPRING	32166	3RS ET	S
26-May-21	SWL	1	1.240	SPRING	32166	3RS ET	Р
26-May-21	SWL	2	18.494	SPRING	32166	3RS ET	Р
26-May-21	SWL	3	27.800	SPRING	32166	3RS ET	Р
26-May-21	SWL	4	6.000	SPRING	32166	3RS ET	Р
26-May-21	SWL	2	3.830	SPRING	32166	3RS ET	S
26-May-21	SWL	3	9.860	SPRING	32166	3RS ET	S
26-May-21	SWL	4	1.330	SPRING	32166	3RS ET	S
27-May-21	NWL	2	8.010	SPRING	32166	3RS ET	Р
27-May-21	NWL	3	37.990	SPRING	32166	3RS ET	Р
27-May-21	NWL	4	18.800	SPRING	32166	3RS ET	Р
27-May-21	NWL	3	8.600	SPRING	32166	3RS ET	S
27-May-21	NWL	4	2.300	SPRING	32166	3RS ET	S
28-May-21	AW	2	4.730	SPRING	32166	3RS ET	Р
28-May-21	WL	2	2.400	SPRING	32166	3RS ET	Р
28-May-21	WL	3	14.857	SPRING	32166	3RS ET	Р
28-May-21	WL	4	2.016	SPRING	32166	3RS ET	Р
28-May-21	WL	3	8.377	SPRING	32166	3RS ET	S
28-May-21	WL	4	1.220	SPRING	32166	3RS ET	S

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

CWD Small Vessel Line-transect Survey

Sighting Data

DATE	STG#	TIME	CWD/FP	GP SZ	AREA	BEAU	PSD	EFFORT	TYPE	DEC LAT	DEC LON	SEASON	BOAT ASSOC.	P/S
8-Mar-21	1	0939	CWD	1	NWL	3	150	ON	3RS ET	22.4023	113.8702	SPRING	NONE	Р
9-Mar-21	1	1145	CWD	4	WL	3	41	ON	3RS ET	22.2052	113.8337	SPRING	NONE	Р
12-Mar-21	1	1051	FP	8	SWL	1	49	ON	3RS ET	22.1885	113.9365	SPRING	NONE	Р
12-Mar-21	2	1105	FP	3	SWL	2	25	ON	3RS ET	22.1730	113.9361	SPRING	NONE	Р
12-Mar-21	3	1114	FP	2	SWL	2	41	ON	3RS ET	22.1572	113.9366	SPRING	NONE	Р
12-Mar-21	4	1145	FP	2	SWL	2	17	ON	3RS ET	22.1934	113.9270	SPRING	NONE	Р
15-Mar-21	1	1010	CWD	1	WL	3	71	ON	3RS ET	22.2908	113.8613	SPRING	NONE	Р
15-Mar-21	2	1146	CWD	7	WL	2	434	ON	3RS ET	22.2074	113.8395	SPRING	NONE	S
15-Mar-21	3	1217	CWD	1	WL	2	404	ON	3RS ET	22.2054	113.8230	SPRING	NONE	Р
16-Mar-21	1	1039	CWD	1	NWL	2	915	ON	3RS ET	22.2800	113.8784	SPRING	NONE	Р
16-Mar-21	2	1105	CWD	2	NWL	2	223	ON	3RS ET	22.3070	113.8753	SPRING	NONE	S
17-Mar-21	1	1038	FP	3	SWL	2	200	ON	3RS ET	22.2012	113.9359	SPRING	NONE	Р
17-Mar-21	2	1046	FP	7	SWL	2	315	ON	3RS ET	22.1876	113.9360	SPRING	NONE	Р
17-Mar-21	3	1054	FP	8	SWL	2	9	ON	3RS ET	22.1763	113.9359	SPRING	NONE	Р
17-Mar-21	4	1107	FP	2	SWL	2	2	ON	3RS ET	22.1491	113.9344	SPRING	NONE	S
17-Mar-21	5	1216	FP	2	SWL	2	58	ON	3RS ET	22.1411	113.9089	SPRING	NONE	S
17-Mar-21	6	1223	FP	4	SWL	2	211	ON	3RS ET	22.1526	113.9079	SPRING	NONE	Р
17-Mar-21	7	1228	FP	2	SWL	2	13	ON	3RS ET	22.1556	113.9019	SPRING	NONE	S
17-Mar-21	8	1319	FP	4	SWL	2	184	ON	3RS ET	22.1728	113.8968	SPRING	NONE	Р
17-Mar-21	9	1327	FP	3	SWL	2	72	ON	3RS ET	22.1582	113.8974	SPRING	NONE	Р
17-Mar-21	10	1340	FP	2	SWL	2	186	ON	3RS ET	22.1579	113.8881	SPRING	NONE	Р
17-Mar-21	11	1420	FP	3	SWL	3	67	ON	3RS ET	22.1856	113.8779	SPRING	NONE	Р
17-Mar-21	12	1431	FP	1	SWL	2	122	ON	3RS ET	22.1630	113.8785	SPRING	NONE	Р
17-Mar-21	13	1451	FP	1	SWL	2	11	ON	3RS ET	22.1891	113.8686	SPRING	NONE	Р
17-Mar-21	14	1524	CWD	1	SWL	2	86	ON	3RS ET	22.1843	113.8486	SPRING	NONE	Р
12-Apr-21	1	1047	CWD	2	WL	2	271	ON	3RS ET	22.2501	113.8423	SPRING	NONE	Р
12-Apr-21	2	1130	CWD	4	WL	2	335	ON	3RS ET	22.2322	113.8306	SPRING	NONE	Р
12-Apr-21	3	1140	CWD	2	WL	2	52	ON	3RS ET	22.2237	113.8375	SPRING	NONE	S
12-Apr-21	4	1206	CWD	7	WL	2	438	ON	3RS ET	22.2143	113.8293	SPRING	NONE	Р
13-Apr-21	1	1050	FP	3	SWL	2	222	ON	3RS ET	22.1852	113.9374	SPRING	NONE	Р
13-Apr-21	2	1055	FP	4	SWL	2	150	ON	3RS ET	22.1759	113.9373	SPRING	NONE	Р
13-Apr-21	3	1100	FP	3	SWL	2	14	ON	3RS ET	22.1700	113.9372	SPRING	NONE	Р

DATE	STG#	TIME	CWD/FP	GP SZ	AREA	BEAU	PSD	EFFORT	TYPE	DEC LAT	DEC LON	SEASON	BOAT ASSOC.	P/S
13-Apr-21	4	1214	FP	1	SWL	2	419	ON	3RS ET	22.1414	113.9163	SPRING	NONE	S
13-Apr-21	5	1349	FP	3	SWL	2	413	ON	3RS ET	22.1900	113.8887	SPRING	NONE	Р
13-Apr-21	6	1450	CWD	3	SWL	3	125	ON	3RS ET	22.1923	113.8691	SPRING	PURSE SEINER	Р
13-Apr-21	7	1536	CWD	3	SWL	3	322	ON	3RS ET	22.1893	113.8491	SPRING	PURSE SEINER	Р
20-Apr-21	1	1204	CWD	2	WL	3	155	ON	3RS ET	22.1910	113.8417	SPRING	PURSE SEINER	S
21-Apr-21	1	1152	FP	4	SWL	5	132	ON	3RS ET	22.1602	113.9181	SPRING	NONE	Р
11-May-21	1	1043	CWD	2	WL	3	74	ON	3RS ET	22.2643	113.8571	SPRING	NONE	S
25-May-21	1	1105	FP	2	SWL	2	16	ON	3RS ET	22.1593	113.9280	SPRING	NONE	Р
25-May-21	2	1109	FP	2	SWL	2	17	ON	3RS ET	22.1634	113.9279	SPRING	NONE	Р
25-May-21	3	1252	CWD	1	SWL	2	256	ON	3RS ET	22.2042	113.8973	SPRING	NONE	Р
25-May-21	4	1438	CWD	6	SWL	3	1	ON	3RS ET	22.1713	113.8681	SPRING	NONE	Р
25-May-21	5	1521	CWD	1	SWL	2	129	ON	3RS ET	22.2000	113.8684	SPRING	NONE	Р
25-May-21	6	1540	CWD	3	SWL	2	71	ON	3RS ET	22.1914	113.8587	SPRING	NONE	Р
25-May-21	7	1610	CWD	3	SWL	2	1	ON	3RS ET	22.1813	113.8594	SPRING	NONE	Р
25-May-21	8	1634	CWD	1	SWL	3	461	ON	3RS ET	22.1832	113.8495	SPRING	NONE	Р
26-May-21	1	1357	CWD	2	SWL	3	199	ON	3RS ET	22.1911	113.8790	SPRING	NONE	Р
26-May-21	2	1437	CWD	3	SWL	3	137	ON	3RS ET	22.1684	113.8685	SPRING	NONE	Р
26-May-21	3	1504	CWD	6	SWL	2	631	ON	3RS ET	22.1958	113.8699	SPRING	NONE	Р
28-May-21	1	1030	CWD	1	WL	3	651	ON	3RS ET	22.2693	113.8574	SPRING	NONE	Р
28-May-21	2	1144	CWD	2	WL	4	240	ON	3RS ET	22.2142	113.8292	SPRING	NONE	Р

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

Notes:

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

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

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

A total of 377.515 km of survey effort was collected under Beaufort Sea State 3 or below with favourable visibility; total no. of 11 on-effort sightings and total number of 29 dolphins from on-effort sightings were collected under such condition. Calculation of the encounter rates in May 2021 are shown as below:

Encounter Rate by Number of Dolphin Sightings (STG) in May 2021

$$STG = \frac{7}{377.515} \times 100 = 2.91$$

Encounter Rate by Number of Dolphins (ANI) in May 2021

$$ANI = \frac{29}{377.515} \times 100 = 7.68$$

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

A total of 1130.012 km of survey effort was collected under Beaufort Sea State 3 or below with favourable visibility; total no. of 26 on-effort sightings and total number of 70 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)

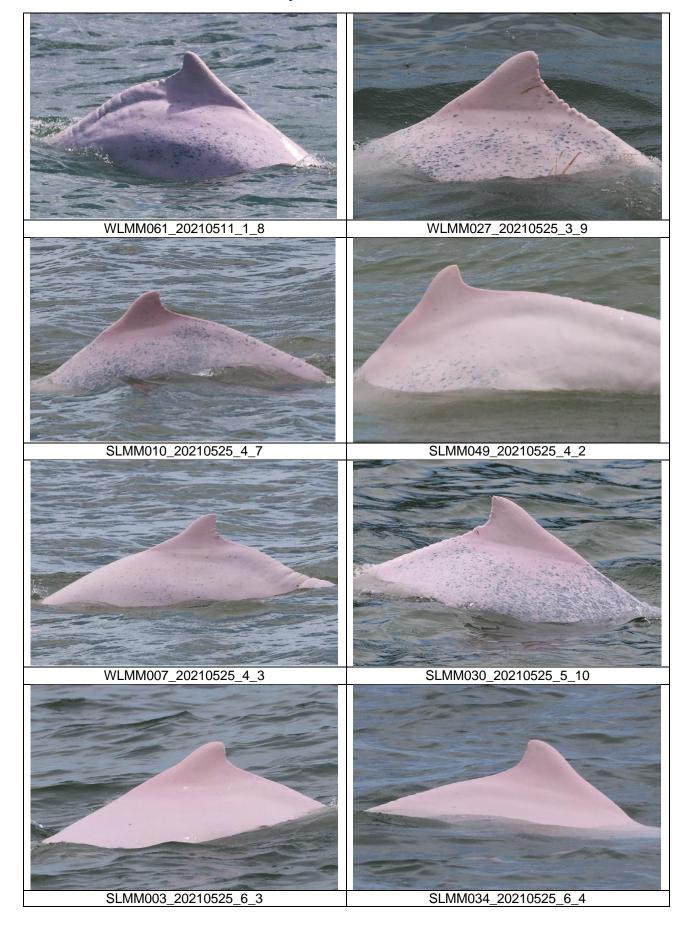
$$STG = \frac{26}{1130.012} \times 100 = 2.30$$

Running Quarterly Encounter Rate by Number of Dolphins (ANI)

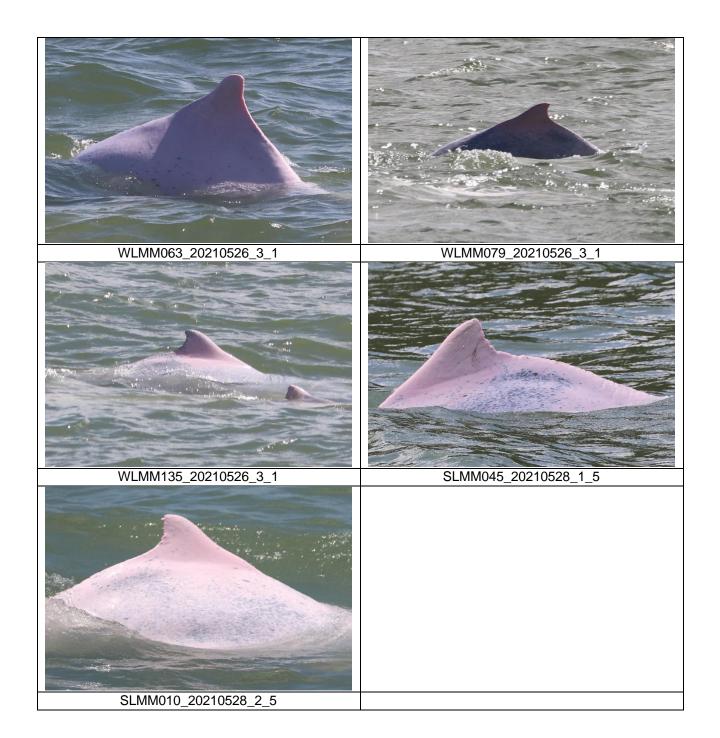
$$ANI = \frac{70}{1130.012} \times 100 = 6.19$$

CWD Small Vessel Line-transect Survey

Photo Identification







CWD Land-based Theodolite Tracking Survey

CWD Groups by Survey Date

Date	Station	Start Time	End Time	Duration	Beaufort Range	Visibility	No. of Focal Follow Dolphin Groups Tracked	Dolphin Group Size Range
13/May/21	Sha Chau	10:44	16:44	6:00	2	1	0	-
25/May/21	Lung Kwu Chau	9:20	15:20	6:00	2	1-4	0	-

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

Appendix D. Calibration Certificates

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



SUB-CONTRACTING REPORT

HK2117719 **WORK ORDER** CONTACT : VANIA CHU

CLIENT : MOTT MACDONALD HONG KONG

LIMITED

ADDRESS : 3/F INTERNATIONAL TRADE TOWER, 348 SUB-BATCH

> DATE RECEIVED : 3-MAY-2021 KWUN TONG ROAD, KWUN TONG, DATE OF ISSUE : 18-MAY-2021

KOWLOON, HONG KONG

: CALIBIRATION/PERFORMANCE CHECK OF **PROJECT** NO. OF SAMPLES: 1

> **CLIENT ORDER DUST METER(S/N: 597337)**

General Comments

Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in ambient condition. The result(s) related only to the item(s) tested.

Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.

Calibration was subcontracted to and analysed by Action United Enviro Services.

Signatories

This document has been signed by those names that appear on this report and are the authorised signatories

Signatories Position

Richard Fung **Managing Director**

This is the Final Report and supersedes any preliminary report with this batch number.

All pages of this report have been checked and approved for release.

: HK2117719 WORK ORDER

SUB-BATCH

: 1 : MOTT MACDONALD HONG KONG LIMITED CLIENT

: CALIBIRATION/PERFORMANCE CHECK OF DUST METER(S/N: 597337) PROJECT



ALS Lab	Client's Sample ID	Sample	Sample Date	External Lab Report No.
ID		Туре		
HK2117719-001	S/N: 597337	Equipments	03-May-2021	S/N: 597337

Equipment Verification Report (TSP)

Equipment Calibrated:

Type: Laser Dust monitor

Manufacturer: Sibata LD-3B

Serial No. 597337

Equipment Ref: Nil

Job Order HK2117719

Standard Equipment:

Standard Equipment: Higher Volume Sampler

Location & Location ID: AUES office (calibration room)

Equipment Ref: HVS 018

Last Calibration Date: 26 April 2021

Equipment Verification Results:

Testing Date: 10&11 May 2021

Hour	Time	Mean Temp °C	Mean Pressure (hPa)	Concentration in µg/m³ (Standard Equipment)	Total Count (Calibrated Equipment)	Count/Minute (Total Count/min)
2hr01min	09:17 ~ 11:18	28.4	1008.8	26	1410	11.6
2hr	11:20 ~ 13:20	28.4	1008.8	21	1513	12.6
2hr01min	13:22 ~ 15:23	28.4	1008.8	27	1481	12.3
2hr01min	09:24 ~ 11:25	29.2	1008.4	28	1615	13.4
2hr01min	11:26 ~ 13:27	29.2	1008.4	30	1772	14.6

30

25

20

15

10

5 0 y = 2.0308x + 0.1065

 $R^2 = 0.9496$

15

20

Linear Regression of Y or X

Slope (K-factor): <u>2.0308 (µg/m3)/CPM</u>

Correlation Coefficient 0.9745

Date of Issue <u>17 May 2021</u>

Remarks:

1. **Strong** Correlation (R>0.8)

2. Factor 2.0308 (µg/m3)/CPM should be applied for TSP monitoring

*If R<0.5, repair or re-verification is required for the equipment

Operator : _____ Fai So ___ Signature : _____ Date : ____ Date : ____ 17 May 2021

QC Reviewer : Ben Tam Signature : Date : 17 May 2021

TSP SAMPLER CALIBRATION CALCULATION SPREADSHEET

Location: Gold King Industrial Building, Kwai Chung Date of Calibration: 26-Apr-21
Location ID: Calibration Room Next Calibration Date: 26-Jul-21

CONDITIONS

Sea Level Pressure (hPa)
Temperature (°C)

1013.7 23.4

Corrected Pressure (mm Hg)
Temperature (K)

760.275 296

CALIBRATION ORIFICE

Make-> TISCH
Model-> 5025A
Calibration Date-> 19-Jan-21

Qstd Slope ->
Qstd Intercept ->
Expiry Date->

2.10574 -0.00985 18-Jan-22

CALIBRATION

Plate	H20 (L)	H2O (R)	H20	Qstd	I	IC	LINEAR
No.	(in)	(in)	(in)	(m3/min)	(chart)	corrected	REGRESSION
18	6.9	6.9	13.8	1.774	56	56.16	Slope = 39.9922
13	5.5	5.5	11.0	1.584	50	50.14	Intercept = -13.7742
10	4.2	4.2	8.4	1.385	42	42.12	Corr. coeff. = 0.9961
8	2.7	2.7	5.4	1.111	32	32.09	
5	1.9	1.9	3.8	0.933	22	22.06	

Calculations:

Qstd = 1/m[Sqrt(H20(Pa/Pstd)(Tstd/Ta))-b]

IC = I[Sqrt(Pa/Pstd)(Tstd/Ta)]

Qstd = standard flow rate

IC = corrected chart respones

I = actual chart response

m = calibrator Qstd slope

b = calibrator Qstd intercept

Ta = actual temperature during calibration (deg K)

Pstd = actual pressure during calibration (mm Hg)

For subsequent calculation of sampler flow:

1/m((I)[Sqrt(298/Tav)(Pav/760)]-b)

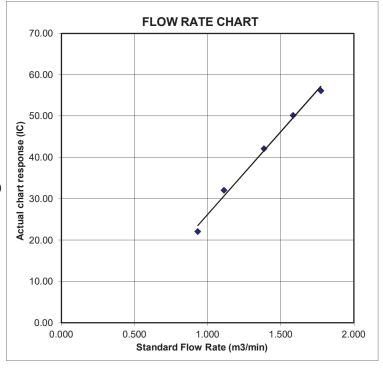
m = sampler slope

b = sampler intercept

I = chart response

Tay = daily average temperature

Pav = daily average pressure





RECALIBRATION DUE DATE:

January 19, 2022

Certificate of Calibration

Calibration Certification Information

Cal. Date: January 19, 2021 Rootsmeter S/N: 438320 Ta: 294 °K

Operator: Jim Tisch Pa: 755.1 mm Hg

Calibration Model #: TE-5025A Calibrator S/N: 1941

Run	Vol. Init (m3)	Vol. Final (m3)	ΔVol. (m3)	ΔTime (min)	ΔP (mm Hg)	ΔH (in H2O)
1	1	2	1	1.4830	3.2	2.00
2	3	4	1	1.0420	6.4	4.00
3	5	6	1	0.9290	8.0	5.00
4	7	8	1	0.8840	8.8	5.50
5	9	10	1	0.7340	12.9	8.00

	Data Tabulation							
Vstd	Qstd	$\sqrt{\Delta H \left(\frac{Pa}{Pstd}\right) \left(\frac{Tstd}{Ta}\right)}$		Qa	√∆H(Ta/Pa)			
(m3)	(x-axis)	(y-axis)	Va	(x-axis)	(y-axis)			
1.0029	0.6762	1.4192	0.9958	0.6715	0.8824			
0.9986	0.9583	2.0071	0.9915	0.9516	1.2479			
0.9965	1.0726	2.2440	0.9894	1.0650	1.3952			
0.9954	1.1260	2.3535	0.9883	1.1180	1.4633			
0.9899	1.3487	2.8385	0.9829	1.3391	1.7648			
	m=	2.10574		m=	1.31858			
QSTD	b=	-0.00985	QA	b=	-0.00612			
	r=	0.99992		r=	0.99992			

Calculations							
Vstd=	ΔVol((Pa-ΔP)/Pa)						
Qstd=	Vstd/∆Time	Qa=	Va/ΔTime				
	For subsequent flow ra	te calculatio	ns:				
Qstd=	$1/m\left(\left(\sqrt{\Delta H\left(\frac{Pa}{Pstd}\right)\left(\frac{Tstd}{Ta}\right)}\right)-b\right)$	Qa=	$1/m\left(\left(\sqrt{\Delta H(Ta/Pa)}\right)-b\right)$				

Standard Conditions								
Tstd: 298.15 °K								
Pstd:	760 m	m Hg						
	Key							
	ΔH: calibrator manometer reading (in H2O)							
	ΔP: rootsmeter manometer reading (mm Hg)							
	Ta: actual absolute temperature (°K)							
	Pa: actual barometric pressure (mm Hg)							
b: intercept								
m: slope								

RECALIBRATION

US EPA recommends annual recalibration per 1998
40 Code of Federal Regulations Part 50 to 51,
Appendix B to Part 50, Reference Method for the
Determination of Suspended Particulate Matter in
the Atmosphere, 9.2.17, page 30



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CALIBRATION REPORT

Test Report No.

BA050103

Date of Issue

: 24 May 2021

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, Hong Kong Attn: Mr. Thomas Wong

PART B - SAMPLE INFORMATION

Description of Samples

Titrette® bottle-top burette, 50mL

Brand Name

BRAND

Model Number

1224B90

Serial Number

1224090

Serial Nulliber

10N64701

Date of Received Date of Calibration May 24, 2021 May 24, 2021

Date of Next Calibration^(a)

Aug 23, 2021

PART C - CALIBRATION REQUESTED

Parameter(b)

Reference Method

Accuracy Test

In-house Method (Gravimetric Method)

~ CONTINUED ON NEXT PAGE ~

Remark(s): -

LEE Chun-ning Desmond Senior Chemist

⁽d) The "Date of Next Calibration" is recommended according to best practice principals as practiced by QPT or quoted from relevant international standards.

⁽b) All chemical and microbiological tests were performed at unit 10-5/F and unit 10-14/F respectively of the company address stated above.

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

CALIBRATION REPORT

Test Report No.

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 $PART D - RESULT^{(c),(d)}$

Water temperature: 24.7°C

Environmental conditions of the calibration:

Relative humidity: 54%

Z-Factor: 1.0030

Nominal volume: 3.0ml

	ĭ .				
Trial	Range: (1-4)	Range: (16-19)	Range: (23-26)	Range: (34-37)	Range: (42-45)
1	2.9954	2.9972	2.9875	3.0062	2.9965
2	2.9976	2.9952	2.9867	3.0042	2.9957
3	2.9951	2.9952	2.9876	3.0042	2.9966
4	2.9948	2.9926	2.9753	3.0016	2.9842
5	2.9908	2.9944	2.9786	3.0034	2.9875
6	2.9842	2.9867	2.9825	2.9957	2.9914
7	2.9875	2.9895	2.9825	2.9985	2.9914
8	2.9877	2.9865	2.9850	2.9955	2.9940
9	2.9854	2.9877	2.9877	2.9967	2.9967
10	2.9851	2.9866	2.9867	2.9956	2.9957
Average (g)	2.9904	2.9912	2.9840	3.0001	2.9930
Standard deviation	0.0050	0.0042	0.0043	0.0000	0.0000
Converted volume (mL)	2.9993	3.0001	2.9930	2.9878	2.9954
Error (%)	-0.0223	0.0044	-0.2346	-0.4054	-0.1530
RSD (%)	0.1669	0.1400	0.1426	0.1336	0.0657

Acceptance Criteria (e)

Accuracy (%Error)	<±1%	<±1%	<±1%	<±1%	< ±1%
Precision (%RSD)	< 1%	< 1%	< 1%	< 1%	< 1%

~ END OF REPORT~

<u>Remark(s): -</u>

⁽c) The results relate only to the tested sample as received

⁽d) The performance of the equipment stated in this report is checked with independent reference material and results compared against a calibrated secondary source.

⁽e) The "acceptance criteria" is applicable for similar equipment used by QPT or quoted from relevant international standards.



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REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Report No.

BA050076

Date of Issue

21 May 2021

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, Hong Kong Attn: Mr. Thomas WONG

PART B - DESCRIPTION

Name of Equipment

YSI ProDSS (Multi-Parameters)

Manufacturer

YSI (a xylem brand)

Serial Number

16H104233

Date of Received

May 20, 2021

Date of Calibration

May 20, 2021

Date of Next Calibration^(a)

Aug 19, 2021

PART C - REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

Parameter

Reference Method

pH at 25°C

APHA 21e 4500-H⁺ B APHA 21e 4500-O G

Dissolved Oxygen Conductivity at 25°C

APHA 21e 2510 B

Salinity

APHA 21e 2520 B APHA 21e 2130 B

Turbidity Temperature

Section 6 of international Accreditation New Zealand Technical

Guide no. 3 Second edition March 2008: Working Thermometer Calibration Procedure.

PART D - CALIBRATION RESULTS(b,c)

(1) pH at 25°C

Target (pH unit)	Displayed Reading(d) (pH Unit)	Tolerance ^(e) (pH Unit)	Results
4.00	4.03	0.03	Satisfactory
7.42	7.44	0.02	Satisfactory
10.01	9.98	-0.03	Satisfactory

Tolerance of pH should be less than ± 0.20 (pH unit)

(2) Temperature

Reading of Ref. thermometer (°C)	Displayed Reading (°C)	Tolerance (°C)	Results
10	10.05	0.05	Satisfactory
25	24.96	-0.04	Satisfactory
50	49.92	-0.08	Satisfactory

Tolerance limit of temperature should be less than ±2.0 (°C)

~ CONTINUED ON NEXT PAGE ~

Remark(s): -

The "Date of Next Calibration" is recommended according to best practice principals as practiced by QPT or quoted form relevant international standards.

(b) 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.

(d) "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..

LEE Chun-ning, Desmond Senior Chemist



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REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Report No.

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Date of Issue

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PART D - CALIBRATION RESULTS (Cont'd)

(3) Dissolved Oxygen

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)	Results
0.01	0.30	0.29	Satisfactory
1.30	1.20	-0.10	Satisfactory
4.34	4.44	0.10	Satisfactory
7.53	7.60	0.07	Satisfactory

Tolerance limit of dissolved oxygen should be less than ±0.50 (mg/L)

(4) Conductivity at 25°C

Conc. of KCl (M)	Expected Reading (µS/cm)	Displayed Reading (μS/cm)	Tolerance (%)	Results
0.001	146.9	152.8	4.02	Satisfactory
0.01	1412	1452	2.83	Satisfactory
0.1	12890	12834	-0.43	Satisfactory
0.5	58670	58016	-1.11	Satisfactory
1.0	111900	110890	-0.90	Satisfactory

Tolerance limit of conductivity should be less than ± 10.0 (%)

(5) Salinity

Expected Reading (g/L)	Displayed Reading (g/L)	Tolerance (%)	Results
10	9.89	-1.10	Satisfactory
20	20.51	2.55	Satisfactory
30	29.87	-0.43	Satisfactory

Tolerance limit of salinity should be less than ±10.0 (%)

(6) Turbidity

Expected Reading (NTU)	Displayed Reading ^(f) (NTU)	Tolerance ^(g) (%)	Results
0	0.11		Satisfactory
10	10.08	0.80	Satisfactory
20	19.33	-3.35	Satisfactory
100	97.88	-2.12	Satisfactory
800	813.47	1.68	Satisfactory

Tolerance limit of turbidity should be less than ± 10.0 (%)

Remark(s): -

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[~] END OF REPORT ~

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^(®) 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.



REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Report No.

BA050075

Date of Issue

21 May 2021

Page No.

1 of 2

PART A - CUSTOMER INFORMATION

Enovative Environmental Service Ltd. Flat 2207, Yu Fun House, Yu Chui Court, Shatin New Territories, Hong Kong Attn: Mr. Thomas WONG

PART B - DESCRIPTION

Name of Equipment

YSI 6920V2 (Multi-Parameters)

Manufacturer

YSI (a xylem brand)

Serial Number

0001CF6C

Date of Received

May 20, 2021

Date of Calibration

May 20, 2021

Date of Next Calibration^(a)

: May 20, 2021 : Aug 19, 2021

PART C - REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

Parameter

Reference Method

pH at 25°C

APHA 21e 4500-H+ B

Dissolved Oxygen Conductivity at 25°C APHA 21e 4500-O G APHA 21e 2510 B

Salinity

APHA 21e 2520 B

Turbidity

APHA 21e 2130 B

Temperature

Section 6 of international Accreditation New Zealand Technical

Guide no. 3 Second edition March 2008: Working Thermometer Calibration Procedure.

PART D - CALIBRATION RESULTS(b,c)

(1) pH at 25°C

Target (pH unit)	Displayed Reading(d) (pH Unit)	Tolerance ^(e) (pH Unit)	Results
4.00	4.05	0.05	Satisfactory
7.42	7.45	0.03	Satisfactory
10.01	10.03	0.02	Satisfactory

Tolerance of pH should be less than ±0.20 (pH unit)

(2) Temperature

Reading of Ref. thermometer (°C)	Displayed Reading (°C)	Tolerance (°C)	Results
10	10.1	0.1	Satisfactory
25	24.9	-0.1	Satisfactory
50	49.8	-0.2	Satisfactory

Tolerance limit of temperature should be less than ±2.0 (°C)

~ CONTINUED ON NEXT PAGE ~

Remark(s): -

- (a) The "Date of Next Calibration" is recommended according to best practice principals as practiced by QPT or quoted form relevant international standards.
- (b) 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.
- (d) "Displayed Reading" denotes the figure shown on item under calibration/checking regardless of equipment precision or significant figures.
- (e) 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..

LEE Chun-ning, Desmond Senior Chemist



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REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

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PART D - CALIBRATION RESULTS (Cont'd)

(3) Dissolved Oxygen

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)	Results
0.01	0.31	0.30	Satisfactory
1.30	1.21	-0.09	Satisfactory
4.34	4.38	0.04	Satisfactory
7.53	7.62	0.09	Satisfactory

Tolerance limit of dissolved oxygen should be less than ± 0.50 (mg/L)

(4) Conductivity at 25°C

Conc. of KCl (M)	Expected Reading (µS/cm)	Displayed Reading (μS/cm)	Tolerance (%)	Results
0.001	146.9	153.0	4.15	Satisfactory
0.01	1412	1387	-1.77	Satisfactory
0.1	12890	12809	-0.63	Satisfactory
0.5	58670	57942	-1.24	Satisfactory
1.0	111900	110923	-0.87	Satisfactory

Tolerance limit of conductivity should be less than ± 10.0 (%)

(5) Salinity

Expected Reading (g/L)	Displayed Reading (g/L)	Tolerance (%)	Results
10	9.8	-2.0	Satisfactory
20	20.4	2.0	Satisfactory
30	29.8	-0.7	Satisfactory

Tolerance limit of salinity should be less than ± 10.0 (%)

(6) Turbidity

Expected Reading (NTU)	Displayed Reading ^(f) (NTU)	Tolerance ^(g) (%)	Results
0	0.1		Satisfactory
10	9.8	-2.0	Satisfactory
20	19.2	-4.0	Satisfactory
100	99.4	-0.6	Satisfactory
800	816.2	2.0	Satisfactory

Tolerance limit of turbidity should be less than ± 10.0 (%)

[~] END OF REPORT ~

[&]quot;Displayed Reading" presents the figures 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.

Appendix E. Status of Environmental Permits and Licences

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

Contract No.	Description	Location	Permit/ Reference No.	Status
3206	Notification of Construction Work	Works area of 3206	409237	Receipt acknowledged by EPD on 25 Oc 2016
	under APCO	Works area of 3206 (Area 11)	447899	Receipt acknowledged by EPD on 8 Aug 2019
	Registration as Chemical Waste	Site office of 3206	WPN 5213-951- Z4035-01	Completion of Registration on 18 Nov 2016
	Producer	Works area of 3206	WPN 5213-951- Z4035-02	Completion of Registration on 18 Nov 2016
		Works Area of 3206 (Area 11)	WPN 5213-951- Z4035-04	Completion of Registration on 4 Sep 2019
	Construction Noise Permit (General Works)	Works Area of 3206	GW-RS0187-21	Valid from 24 Mar 2021 to 15 Sep 2021
		Works Area of 3206 (Area 11)	GW-RS0107-21	Valid from 2 Mar 2021 to 30 Jun 2021
	Bill Account for disposal	Works area of 3206	A/C 7026398	Approval granted from EPD on 16 Nov 2016
(u F (Notification of Construction Work under APCO	Works area of 3301	415821	Receipt acknowledged by EPD on 19 Apr 2017
	Registration as Chemical Waste Producer	Works area of 3301	WPN 5213-951- F2718-02	Completion of Registration on 9 Jun 2017
	Discharge License under WPCO	Works area of 3301	WT00029286- 2017	Valid from 20 Sep 2017 to 30 Sep 2022
	Bill Account for disposal	Works area of 3301	A/C 7027728	Approval granted from EPD on 8 May 2017
	Construction Noise Permit (General	Works area of 3301	GW-RS0118-21	Valid from 24 Feb 2021 to 21 Aug 2021
	Works)	Works area of 3301 (Cable ducting works)	GW-RS0188-21	Valid from 29 Mar 2021 to 28 Sep 2021
3302	Notification of Construction Work	(Special Case) Works area of	440222	Receipt acknowledged by EPD on 10 Dec
	under APCO	3302 Staging area of 3302	2018CES1	2018 Receipt acknowledged by EPD on 21 Dec 2018
		3002	454882	Receipt acknowledged by EPD on 2 Apr 2020
	Registration as Chemical Waste Producer	Works area of 3302	5296-951-C4331- 01	Completion of Registration on 4 Jan 2019

Contract No.	Description	Location	Permit/ Reference No.	Status
	Discharge License under WPCO	Works area of 3302	WT00034539- 2019	Valid from 11 Mar 2020 to 31 Mar 2025
		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 (General	Works area of 3302	GW-RS0988-20	Valid from 7 Jan 2021 to 6 July 2021
	Works)		GW-RS0987-20	Valid from 7 Jan 2020 to 6 July 2021
3303	Notification of Construction Work under APCO	Works area of 3303	445611	Receipt acknowledged by EPD on 27 May 2019
	Registration as Chemical Waste Producer	Works area of 3303	5213-951-S4174- 01	Completion of Registration on 17 Jun 2019
	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 area of	GW-RS0825-20	Valid from 16 Nov 2020 to 15 May 2021
	Works)	3303 (Existing airport)	GW-RS0286-21	Valid from 16 May 2021 to 15 Nov 2021
		Works area of 3303 (Reclamation area)	GW-RS0285-21	Valid from 30 Apr 2021 to 28 Oct 2021
3305	Notification of Construction Work under APCO	Works area of 3305	460857	Receipt acknowledged by EPD on 12 Oct 2020
	Registration as Chemical Waste Producer	Works area of 3305	5213-951-A3024- 01	Completion of Registration on 13 Nov 2020
	Bill Account for disposal	Works area of 3305	A/C 7035360	Approval granted from EPD on 9 Oct 2019
3307	Notification of Construction Work under APCO	Works area of 3307	454964	Receipt acknowledged by EPD on 6 Apr 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-RS0033-21	Valid from 7 Feb 2021 to 6 Aug 2021
3402	Notification of Construction Work under APCO	Works area of 3402	464622	Receipt acknowledged by EPD on 18 Feb 2021
	Bill Account for disposal	Works area of 3402	A/C 7032577	Approval granted from EPD on 27 Nov 2018
	Construction Noise Permit (General Works)	Works area of 3402	GW-RS0129-21	Valid from 20 Mar 2021 to 9 Sep 2021
3403	Notification of Construction Work under APCO	Works area of 3403	450860	Receipt acknowledged by EPD on 11 Nov 2019

Contract No.	Description	Location	Permit/ Reference No.	Status
	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-RS0822-20	Valid from 29 Nov 2020 to 28 May 2021
	vvoiks)		GW-RS0329-21	Valid from 29 May 2021 to 28 Nov 2021
	Construction Noise Permit (Special Case)	Works area of 3403	GW-RS0010-21	Valid from 15 Jan 2021 to 31 May 2021
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	Works area of 3405	GW-RS0013-21	Superseded by GW-RS0339-21
	Permit (General Works)		GW-RS0339-21	Valid from 15 May 2021 to 12 Nov 2021
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 14 Jan 2021
	Bill Account for disposal	Works area of 3408	A/C 7039063	Approval granted from EPD on 2 Dec 2020
	Construction Noise Permit (General Works)	Works area of 3408	GW-RS0224-21	Valid from 11 Apr 2021 to 30 Sep 2021
3503	Notification of Construction Work under APCO	Works area of 3503	459394	Receipt acknowledged by EPD on 28 Aug 2020
		Stockpiling area of 3503	459392	Receipt acknowledged by EPD on 28 Aug 2020
	Registration as Chemical Waste Producer	Works area of 3503	WPN 5113-951- L2845-02	Completion of Registration on 3 Sep 2019
		Stockpiling area of 3503	WPN 5113-951- L2845-04	Completion of Registration on 19 Jun 2020
	Discharge License under WPCO	Works area of 3503	WT00031258- 2018	Valid from 6 Aug 2019 to 30 Jun 2023
			WT00036551- 2020	Valid from 17 Sep 2020 to 30 Sep 2025
			WT00036697- 2020	Valid from 2 Nov 2020 to 30 Nov 2025
	Bill Account for disposal	Works area of 3503	A/C 7029665	Approval granted from EPD on 27 Dec 2017

Contract No.	Description	Location	Permit/ Reference No.	Status
	Construction Noise Permit (General	Works area of 3503	GW-RS0257-21	Valid from 16 Apr 2021 to 12 Oct 2021
	Works)	Stockpiling area of 3503	GW-RS0215-21	Valid from 19 Apr 2021 to 18 Oct 2021
		Works area of 3503 (Special Case)	GW-RS0246-21	Valid from 15 Apr 2021 to 31 May 2021
3508	Notification of Construction Work under APCO	Works area of 3508	459469	Receipt acknowledged by EPD on 4 Sep 2020
	Registration as Chemical Waste Producer	Works area of 3508	WPN-5218-951- G2898-01	Completion of Registration on 28 Sep 2020
	Discharge License under WPCO	Works area of 3508	WT00037209- 2020	Valid from 11 Mar 2021 to 31 Mar 2026
			WT00037523- 2021	Valid from 1 Apr 2021 to 30 Apr 2026
			WT00037225- 2020	Valid from 1 Apr 2021 to 30 Apr 2026
			WT00037549- 2021	Valid from 1 Apr 2021 to 30 Apr 2026
	Bill Account for disposal	Works area of 3508	7038224	Approval granted from EPD on 8 Sep 2020
	Construction Noise Permit (General Works)	Works area of 3508	GW-RS0213-21	Superseded by GW-RS0304-21
			GW-RS0304-21	Valid from 2 May 2021 to 29 Oct 2021
		Works area of 3508 (Area 3, Area J, Area K)	GW-RS0281-21	Valid rom 1 May 2021 to 28 Oct 2021
		Works area of 3508 (Special Case)	GW-RS0884-20	Superseded by GW-RS0414-21
			GW-RS0414-21	Valid from 30 May 2021 to 25 Nov 2021
		Works area of 3508 (Special Case)	GW-RS0175-21	Valid from 1 Apr 2021 to 31 May 2021
		Works area of 3508 (Special Case)	GW-RS0315-21	Valid from 12 May 2021 to 9 Nov 2021
3601	Notification of Construction Work under APCO	Works area of 3601	451762	Receipt acknowledged by EPD on 10 Dec 2019 May
	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
3602	Notification of Construction Work under APCO	Works area of 3602	421278	Receipt acknowledged by EPD on 18 Sep 2017
	Registration as Chemical Waste	Works area of 3602	WPN 5296-951- N2673-01	Completion of Registration on 9 Oct 2017
	Producer	Site office of 3602	WPN 5296-951- N2673-02	Completion of Registration on 11 Dec 2017
	Bill Account for disposal	Works area of 3602	A/C 7028942	Approval granted from EPD on 6 Oct 2017

Contract No.	Description	Location	Permit/ Reference No.	Status
	Construction Noise Permit (General Works)	Works area of 3602	GW-RS0186-21	Valid from 31 Mar 2021 to 30 Sep 2021
3603	Registration as Chemical Waste	Site office of 3603	5296-951-S4069- 01	Completion of Registration on 22 Jan 2018
	Producer	Test Loop Site of 3603	8334-512-S4273- 01	Completion of Registration on 17 Sep 2020
	Bill Account for disposal	Works area of 3603	A/C 7030002	Approval granted from EPD on 1 Feb 2018
	Construction Noise Permit (General	Works area of 3603	GW-RS0190-21	Superseded by GW-RS0367-21
	Works)		GW-RS0367-21	Valid from 24 May 2021 to 23 Nov 2021
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	Works area of	GW-RS0916-20	Superseded by GW-RS0326-21
	Permit (General Works)	3721	GW-RS0326-21	Valid from 15 May 2021 to 12 Nov 2021
3722	Notification of Construction Work under APCO	Works area of 3722A	465843	Receipt acknowledged by EPD on 14 Aug 2020
		Works area of 3722B	465845	Receipt acknowledged by EPD on 14 Aug 2020
		Works area of 3722C	465842	Receipt acknowledged by EPD on 14 Aug 2020
		Works area of 3722D	465846	Receipt acknowledged by EPD on 14 Aug 2020
	Registration as Chemical Waste Producer	Works area of 3722A	WPN 5218-951- T3863-01	Completion of Registration on 18 Mar 2020
		Works area of 3722B	WPN 5218-951- T3864-01	Completion of Registration on 18 Mar 2020
		Works area of 3722C	WPN 5218-951- T3862-01	Completion of Registration on 18 Mar 2020
		Works area of 3722D	WPN 5218-951- T3865-01	Completion of Registration on 18 Mar 2020
	Bill Account for disposal	Works area of 3722A	A/C 7036752	Approval granted from EPD on 11 Mar 2020
		Works area of 3722B	A/C 7036966	Approval granted from EPD on 6 Apr 2020
		Works area of 3722C	A/C 7036967	Approval granted from EPD on 6 Apr 2020
		Works area of 3722D	A/C 7036795	Approval granted from EPD on 20 Mar 2020
	Construction Noise Permit (General Works)	Works area of 3722A, 3722B, 3722C and 3722D	GW-RS0153-21	Valid from 15 Mar 2021 to 14 Sep 2021
3723		3723A	464440	Receipt acknowledged by EPD on 9 Feb 2021

Contract No.	Description	Location	Permit/ Reference No.	Status
	Notification of Construction Work under APCO	3723B	464444	Receipt acknowledged by EPD on 9 Feb 2021
	Registration as Chemical Waste	3723A	WPN 5218-951- Completion of Registration on 9 T3920-01	
	Producer	3723B	WPN 5218-951- T3921-01	Completion of Registration on 9 Feb 2021
	Discharge License under WPCO	Works area of 3723A & 3723B	/	Application submitted on 15 March 2021
	Bill Account for disposal	Works area of 3723A	A/C 7039755 Approval granted from EPD or 2021	
		Works area of 3723B	A/C 7039754	Approval granted from EPD on 24 Fel 2021
	Construction Noise	Works area of	GW-RS0221-21	Superseded by GW-RS0320-21
	Permit (General Works)	3723A & 3723B	GW-RS0320-21	Valid from 13 May 2021 to 11 Nov 2021
3801	Notification of Construction Work	Works area of 3801	418345	Receipt acknowledged by EPD on 26 Jun 2017
	under APCO		430372	Receipt acknowledged by EPD on 2 Feb 2018
			435652	Receipt acknowledged by EPD on 16 Ju 2018
			451991	Receipt acknowledged by EPD on 18 De 2019
		Stockpiling area of 3801	450940	Receipt acknowledged by EPD on 13 No 2019
	Registration as Chemical Waste Producer	Works area of 3801	WPN 5296-951- C1169-53	Completion of Registration on 14 Aug 201
	Discharge License under WPCO	Works and stockpiling area of 3801	WT00029535- 2017	Valid from 24 Nov 2017 to 30 Nov 2022
		Stockpiling area of 3801	WT00037354- 2021	Valid from 8 Mar 2021 to 31 Mar 2026
	Bill Account for disposal	Works area of 3801	A/C 7028254	Approval granted from EPD on 3 Jul 2017
	Construction Noise Permit (General Works)	Works area of 3801	GW-RS0245-21	Valid from 28 Apr 2021 to 27 Oct 2021
3802	Notification of Construction Work under APCO	Works area of 3802	458122	Receipt acknowledged by EPD on 14 Ju 2020
	Registration as Chemical Waste Producer	Works area of 3802	WPN 5218-951- G2895-01	Completion of Registration on 28 Aug 2020
	Bill Account for disposal	Works area of 3802	A/C 7037575	Approval granted from EPD on 15 Jul 2020
	Construction Noise	Works area of 3802	GW-RS0225-21	Superseded by GW-RS0404-21
	Permit (General Works)		GW-RS0404-21	Valid from 31 May 2021 to 30 Nov 2021
3901A	Notification of Construction Work under APCO	Works area of 3901A	466883	Receipt acknowledged by EPD on 26 Ap 2021
	Specified Process	Works area of 3901A	L-3-261(1)	Valid from 14 Sep 2020 to 13 Sep 2024

Contract No.	Description	Location	Permit/ Reference No.	Status
	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/C7037889	Approval granted from EPD on 20 Jul 2020
	Construction Noise Permit (General Works)	Works area of 3901A	GW-RS0095-21	Valid from 19 Feb 2021 to 17 Jul 2021
3901B	Notification of Construction Work under APCO	Works area of 3901B	466885	Receipt acknowledged by EPD on 26 Apr 2021
	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-RS0146-21	Valid from 14 Mar 2021 to 10 Sep 2021

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

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

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

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

Statistics for Complaints, Notifications of Summons and Prosecutions

Reporting Period	Cumulative Statistics			
	Complaints	Notifications of Summons	Prosecutions	
This reporting period	1	0	0	
From 28 December 2015 to end of the reporting period	36	1	1	