

Civil Engineering and Development Department 4/F, Civil Engineering and Development Building Port Works Division

101 Princess Margaret Road

Ho Man Tin Kowloon Your reference:

Our reference:

HKCEDD15/50/108155

Date:

9 August 2022

Attention: Mr Daniel K Y Leung

BY EMAIL & POST (email: dkyleung@cedd.gov.hk)

Dear Sirs

Agreement No.: PI 3/2020

Independent Environmental Checker for Lei Yue Mun Waterfront Enhancement Project Verification of Monthly Environmental Monitoring and Audit Report (July 2022)

We refer to emails of 8 and 9 August 2022 from Acuity Sustainability Consulting Limited attaching a Monthly Environmental Monitoring and Audit Report (July 2022).

We have no comments and hereby verify the captioned report in accordance with Clause 3.4 of the Environmental Permit no. EP-564/2018 and Section 13.4 of the Environmental Monitoring and Audit Manual.

Should you have any queries, please do not hesitate to contact the undersigned or our Mr Edric Lau at 2618 2831.

Yours faithfully

ANEWR CONSULTING LIMITED

James Choi

Independent Environmental Checker

CPSJ/LCCR/LTKE/lsmt

cc ArchSD – Mr Ken Cheung (email: cheunkk3@archsd.gov.hk)

Acuity – Mr Kevin Li (email: kli@acuityhk.com) Acuity – Mr Kelvin Lau (email: klau@acuityhk.com)

Email: info@anewr.com Web: www.anewr.com









Contract No. PI 2/2020

Environmental Monitoring Works for Lei Yue Mun Waterfront Enhancement Project

Monthly EM&A Report (July 2022)

Document No.

ASCL	/	200168151	/	EMA072022	/	0
Publisher		Project Code		Sequential No.		Revision Index

	Prepared by:	Checked by:	Certified by:
Name	Kelvin LAU	Wingo SO	Kevin LI
Position	Environmental Team	Environmental Team	Environmental Team
Position	Member	Member	Leader
Signature	4	Wings	. \
Date:	9 August 2022	9 August 2022	9 August 2022

Contract No. PI 2/2020 Environmental Monitoring Works for Lei Yue Mun Waterfront Enhancement Project 15th Monthly EM&A Report (July 2022)





REVISION HISTORY

Rev.	DESCRIPTION OF MODIFICATION	DATE
	1	

Contract No. PI 2/2020 Environmental Monitoring Works for Lei Yue Mun Waterfront Enhancement Project 15th Monthly EM&A Report (July 2022)





CONTENTS

Exe	cutive Summa	ary	
1.	Basic Project	Information	1
2.	Noise		7
3.	Water Qualit	y	12
4.	Ecological		19
5.	Waste		23
6.	Summary of	Monitoring Exceedance, Complaints, Notification of Summons and Prosecutions	26
7.	EM&A Site In	nspection	27
8.	Future Key Is	ssues	29
9.	Conclusions	and Recommendations	31
Αp	pendix A	Master Programme	
Αŗ	pendix B	Summary of Implementation Status of Environmental Mitigation	
Αŗ	pendix C	Impact Monitoring Schedule of this and next Reporting Period	
Αŗ	pendix D	Event/Action Plan for Noise Exceedance	
Αp	pendix E	Noise Monitoring Equipment Calibration Certificate	
Αŗ	pendix F	Noise Monitoring Results	
Αp	pendix G	Event/Action Plan for Water Quality Exceedance	
Αp	pendix H	Water Quality Monitoring Equipment Calibration Certificate	
Αŗ	pendix I	Water Quality Monitoring Results	
Αp	pendix J	Complaint Log	





EXECUTIVE SUMMARY

INTRODUCTION

- A1. The Project, Lei Yue Mun Waterfront Enhancement Project, is a Designated Project under the Environmental Impact Assessment Ordinance (Cap. 499) (EIAO) and is currently governed by an Environmental Permit (EP No. EP-564/2018) for the construction and operation of the Project.
- A2. The Civil Engineering and Development Department (CEDD) commissioned Acuity Sustainability Consulting Limited (ASCL) 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 EM&A Manual (the Manual).
- A3. In accordance with the Manual for the Project, the results and findings of all EM&A work required in this Manual shall be reported in the monthly EM&A reports prepared by the ET and endorsed by the Independent Environmental Checker (IEC).
- A4. This is the 15th Monthly EM&A Report for the Project which summarizes the key findings of the EM&A programme during the reporting period from 1 July to 31 July 2022.

SUMMARY OF MAIN WORKS UNDERTAKEN & KEY MITIGATION MEASURES IMPLEMENTED

A5. Key activities carried out in this reporting period for the Project included the followings:

Works Description Location Contract No. CV/2020/09 • Rock excavation near sea-side of landing LET YUE MUN • Trim down excessive casing & H-section along pipe pile at Landing • Excavation for construction of panel wall and capping beam • Construction for vertical seawall at landing • Installation of 610mm Dia. casing at LET YUE MA breakwater area • Cement grout to the completed socketed pile at breakwater • Conduct pile load test at breakwater Contract No. SS I521 • Installation of Aluminum panel • Excavation for left side of Rest Garden Balustrade Concrete Kerb • Formwork & Rebar fixing for left side of Rest Garden Balustrade Concrete Kerb





Works Description	Location
Construct the left side of Rest Garden	
Balustrade Concrete Kerb	
 Finishing works at planter 1-3 and kerb 	
 Installation of drainage mat and cell 	
Import Mix Soil	
Formwork & Rebar for on grade slab nearby	
planter 2	
Backfill the existing soil	
Construct the UG CI pipe surround	
Floor finishing work	

- A6. The major environmental impacts brought by the above construction works include:
 - Construction dust and noise generation from excavation and construction works
 - Waste generation from construction activities
 - Impact on water quality from marine construction works and inland construction works
- A7. The key environmental mitigation measures implemented for the Project in this reporting period associated with the above construction works include:
 - Dust suppression by regular wetting and water spraying for construction works
 - Reduction of noise from equipment and machinery on-site
 - Sorting and storage of general refuse and construction waste
 - The dredging rate shall not exceed 100 m³ per hour with a maximum working period of 12 hours per day throughout the construction phase and operation phase.
 - Silt curtains should be deployed enclosing the dredging operation. Regular inspection on the silt curtain on the silt curtain condition by the contractor should be carried out.





SUMMARY OF EXCEEDANCE & INVESTIGATION & FOLLOW-UP

- A8. No noise-related exceedance was recorded in the reporting period.
- A9. No water quality monitoring exceedance was recorded in the reporting period.
- A10.Weekly site inspections of the construction work by ET were carried out on 7, 14, 21 and 28 July 2022 to audit the mitigation measures implementation status. Observations were recorded in the site inspection checklists and provided to the contractors together with the appropriate follow-up actions where necessary.

COMPLAINT HANDLING AND PROSECUTION

- A11. No project-related environmental complaint was received during the reporting period.
- A12. Neither notifications of summons nor prosecution was received for the Project.

REPORTING CHANGE

A13. There was no change to be reported that may affect the on-going EM&A programme.





SUMMARY OF UPCOMING KEY ISSUES AND KEY MITIGATION MEASURES

A14. Key activities anticipated in the next reporting period for the Project will include the followings:

Works Description	Location
Contract No. CV/2020/09	
Rock excavation near sea-side of landing	Landing Facility
Trim down excessive casing & H-section along pipe pile at	Landing Facility
Landing	
Excavation for construction of panel wall and capping beam	Landing Facility
Bulk excavation level down the temporary platform at Landing	Landing Facility
Construction for vertical seawall at landing	Landing Facility
Cement grout to the completed socketed pile at breakwater	Breakwater Area
Modification of current temporary platform at breakwater	Breakwater Area
Contract No. SS J521	
Installation of Aluminum panel	Viewing platform
Excavation for left side of Rest Garden Balustrade Concrete	Rest Garden Balustrade Concrete
Kerb	Kerb
Formwork & Rebar fixing for left side of Rest Garden Balustrade	
Concrete Kerb	
Construct the left side of Rest Garden Balustrade Concrete Kerb	
Formwork & Rebar for on grade slab nearby planter 2	Planter 2
Backfill the existing soil	Site
Floor finishing work nearby play area	
Planting schedule at outside boundary Rest Garden	





A15. The major environmental impacts brought by the above construction works will include:

- Construction dust and noise generation from excavation and construction works
- Waste generation from construction activities
- Impact on water quality from marine construction works and inland construction works

A16. The key environmental mitigation measures for the Project in the coming reporting period associated with the above construction works will include:

- Dust suppression by regular wetting and water spraying for construction works
- Reduction of noise from equipment and machinery on-site
- Sorting and storage of general refuse and construction waste
- The dredging rate shall not exceed 100 m³ per hour with a maximum working period of 12 hours per day throughout the construction phase and operation phase.
- Silt curtains should be deployed enclosing the dredging operation. Regular inspection on the silt curtain on the silt curtain condition by the contractor should be carried out.





1. BASIC PROJECT INFORMATION

1.1. BACKGROUND

Civil Engineering and Development Department (CEDD) has contracted Concentric - Hong Kong River Joint Venture (CHKRJV) to carry out the Construction of Lei Yue Mun Public Landing Facility under **Contract No. CV/2020/09**; and Architectural Services Department (ArchSD) has contracted Milestone Builder Engineering Limited to carry out the development of a waterfront promenade and related improvement works under **Contract No. SS J521** for the Lei Yue Mun Waterfront Enhancement Project (the Project).

Acuity Sustainability Consulting Limited (ASCL) is commissioned by CEDD to undertake the Environmental Team (ET) services as required and/or implied, both explicitly and implicitly, in the Environmental Permit (EP), Environmental Impact Assessment Report (EIA Report) (Register No. AEIAR-219/2018) and Environmental Monitoring and Audit Manual (EM&A Manual) for the Project; and to carry out the Environmental Monitoring and Audit (EM&A) programme in fulfillment of the EIA Report's EM&A requirements under **Contract No. PI 2/2020**.

Pursuant to the Environmental Impact Assessment Ordinance (EIAO), the Director of Environmental Protection granted the Environmental Permit (No. EP-564/2018) to CEDD for the Project.

1.2. THE REPORTING SCOPE

This is the 15th Monthly EM&A Report for the Project which summarizes the key findings of the EM&A programme during the reporting period from 1 July to 31 July 2022.

1.3. PROJECT ORGANIZATION

The Project Organization structure for Construction Phase is presented in **Figure 1.1**. The key personnel's' contacts are presented in **Table 1.1** and **Table 1.2**.





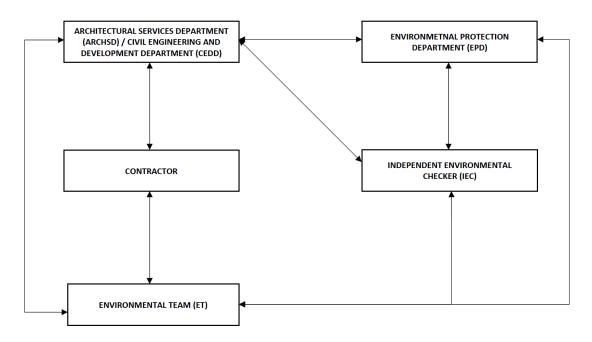


Figure 1.1 Project Organization Chart

Table 1.1 Key Personnel's' Contact for the Construction of a Public Landing Facility and Improvement Works to Existing Lookout Points and Viewing Platform

<u> </u>				
Party	Position	Name	Phone	
Civil Engineering and Development Department	Engineer	Ms. Lam Sau Lai, Katy	2762 5044	
ANewR	Independent Environmental Checker	Mr. Choi Pui Sum, James	2618 2831	
Acuity Sustainability Consulting Limited	Environmental Team	Mr. Li Wai Ming, Kevin	2698 6833	
Concentric - Hong Kong River Joint Venture	Contractor	Mr. T S Lam	9655 5486	

Table 1.2 Key Personnel's' Contact for the Development of a Waterfront Promenade and Related Improvement Works

Party	Position	Name	Phone
Architectural Services Department	Project Manager	Mr. Ken Chan	2867 3850
ANewR	Independent Environmental Checker	Mr. Choi Pui Sum, James	2618 2831
Acuity Sustainability Consulting Limited	Environmental Team	Mr. Li Wai Ming, Kevin	2698 6833
Milestone Builder Engineering Ltd.	Environmental Officer	Ms. Mandy Fung	6506 0375





1.4. SUMMARY OF CONSTRUCTION WORKS

Details of the major construction activities undertaken in this reporting period are shown as below. The construction programme is presented in **Appendix A**.

Key activities carried out in this reporting period for the Project included the followings:

Location	
Landing Facility	
Landing Facility	
Landing Facility	
Vertical Seawall	
Breakwater Area	
Breakwater Area	
Breakwater Area	
\(\text{i}\) \(\text{i}\) \(\text{i}\)	
Viewing platform	
Rest Garden Balustrade Concrete	
Kerb	
Planter 1, 2, 3	
Meter Room	
Weter Room	
Site	
Jite	





1.5. SUMMARY OF ENVIRONMENTAL STATUS

A summary of the valid permits, licences, and/or notifications on environmental protection for this Project is presented in **Table 1.3**.

Table 1.3 Summary of the Status of Valid Environmental Licence, Notification and Permit

Permit/ Licenses/ Notification	Reference	Validity Period
Contract No. CV/2020/09		
Environmental Permit	EP-564/2018	Throughout the Contract
Notification of Construction Works under	Ref. No.: 463353	Throughout the Contract
the Air Pollution Control (Construction		
Dust) Regulation (Form NA)		
Chemical Waste Producer Registration	5213-298-C3752-02	Throughout the Contract
Billing Account for Disposal of	7039364	Throughout the Contract
Construction Waste		
Discharge Licence under	WT00040594-2022	Valid to 30 Jun 2027
Water Pollution Control Ordinance		
Contract No. SS J521		_
Environmental Permit	EP-564/2018	Throughout the Contract
Notification of Construction Works under	Ref. No.: 467619	Throughout the Contract
the Air Pollution Control (Construction		
Dust) Regulation (Form NA)		
Chemical Waste Producer Registration	5312-298-M2939-02	Throughout the Contract
Billing Account for Disposal of	7039353	Throughout the Contract
Construction Waste		
Discharge Licence under	WT00039075-2021	Valid to 30 Sep 2026
Water Pollution Control Ordinance		





The status for all environmental aspects is presented in **Table 1.4**.

Table 1.4 Summary of Status for Key Environmental Aspects under the EM&A Manual

Parameters	Status		
Water Quality			
Baseline Monitoring under EM&A Manual	The baseline monitoring result has been reported in Baseline Monitoring Report and submitted to EPD under EP Condition 3.3 on 25 May 2021		
Impact Monitoring	The impact water quality monitoring of the Project commenced on 14 September 2021		
Noise			
Baseline Monitoring	The baseline monitoring result has been reported in Baseline Monitoring Report and submitted to EPD under EP Condition 3.3 on 25 May 2021		
Noise Management Plan	The Noise Management Plan was submitted by the Contractor on 4 May 2021 and approved on 10 May 2021		
Impact Monitoring	On-going		
Ecology			
Conceptual Landscape Layout Plan	The Conceptual Landscape Layout Plan will be submitted no later than three months prior to the commencement of detailed design of the landscape and architectural works of the Project under EP Condition 2.10		
Coral Baseline Survey Report	The Coral Baseline Survey Report was submitted to EPD under EP Condition 2.14 on 12 May 2021 and approved by EPD on 18 May 2021		
Coral Translocation Plan	The Coral Translocation Plan was submitted to EPD under EP Condition 2.16 on 28 April 2021 and commented received on 27 September 2021. Updated Coral Translocation Plan was submitted to EPD on 22 December 2021 and approved on 7 January 2022.		
Coral Review Report	The Coral Review Report will be submitted no later than three months before the commencement of each maintenance dredging under EP Condition 2.20		
Waste Management			
Mitigation Measures in Waste Monitoring Plan	On-going		
Environmental Audit			
Site Inspection covering Measures of Air Quality, Noise Impact, Water Quality, Waste, Ecological Quality, Fisheries, Landscape and Visual	On-going		

Other than the EM&A work by ET, environmental briefings, trainings and regular environmental management meetings were conducted, in order to enhance environmental awareness and closely monitor the environmental performance of the contractors.

Contract No. PI 2/2020 Environmental Monitoring Works for Lei Yue Mun Waterfront Enhancement Project 15th Monthly EM&A Report (July 2022)





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





2. Noise

2.1. MONITORING REQUIREMENTS

To ensure no adverse noise impact, noise monitoring is recommended to be carried out within 300m radius from the nearby noise sensitive receivers (NSRs), during construction phase. The NSRs selected as monitoring station are (i) NM1 – Village house in Lei Yue Mun Hoi Pong Road Central, (ii) NM2-A – No.79B, Lei Yue Mun Hoi Pong Road East, (iii) NM3 – Jockey Club Lei Yue Mun Plus and (iv) NM4 – No. 21C, Lei Yue Mun Hoi Pong Road East respectively.

In accordance with the EM&A Manual, baseline noise level at the noise monitoring stations were established as presented in the Baseline Monitoring Report. Impact noise monitoring was conducted once per week in the form of 30-minutes measurements Leq, L10 and L90 levels recorded at each monitoring station between 0700 and 1900 on normal weekdays.

Noise monitoring were carried out at the monitoring locations sited at LYM in the reporting month. The results are presented in **Appendix F.**

Construction noise level were measured in terms of the A-weighted equivalent continuous sound pressure level (LAeq). Leq $_{30 min}$ was used as the monitoring parameter for the time period between 0700 and 1900 on normal weekdays. **Table 2.1** summarizes the monitoring parameters, frequency and duration of the impact noise monitoring.

Table 2.1 Noise Monitoring Parameters, Time, Frequency and Duration

Time	Duration	Interval	Parameters
Daytime: 0700-1900	Day time: 0700-1900 (during normal weekdays)	$\begin{array}{c} \text{Continuously in} \\ L_{\text{eq 5min}}/L_{\text{eq 30min}} \text{(average} \\ \text{of 6 consecutive } L_{\text{eq 5min}} \text{)} \end{array}$	$\begin{array}{c} L_{eq~30min} \\ L_{10~30min} ~\&~ L_{90~30min} \end{array}$

2.2. Monitoring Locations

The monitoring locations should normally be made at a point 1m from the exterior of the NSRs building façade and be at a position 1.2m above the ground. A correction of +3dB(A) should be made to the free-field measurements.

According to the environmental findings detailed in the EIA report and Baseline Monitoring Report, the designated locations for the construction noise monitoring are listed in **Table 2.2** below.





Table 2.2 Noise Monitoring Locations

Station	Noise Monitoring Stations	Monitoring Location	Position
NM1	Village house in Lei Yue Mun Hoi Pong Road Central	Pedestrian Road on Ground Floor	1 m from facade
NM2	No.81, Lei Yue Mun Hoi Pong Road East	Pedestrian Road on Ground Floor	1 m from facade
NM3	Jockey Club Lei Yue Mun Plus	Fenced Road on Ground Floor	1 m from facade
NM4	No. 21C, Lei Yue Mun Hoi Pong Road East	Fenced Road on Ground Floor	1 m from facade

The original construction noise monitoring station NM2 was selected at the façade of No. 81 of Lei Yue Mun Hoi Pong Road East. However, the residents of the premises at No. 81 of Lei Yue Mun Hoi Pong Road East do not allow the setting up of the construction noise monitoring station NM2. No. 79B, Lei Yue Mun Hoi Pong Road East, was proposed as the alternative noise monitoring location for set up of construction noise monitoring station named as NM2-A.

A Proposal for Alternative Noise Monitoring Station, which was certified by the ET Leader and verified by the IEC, has been prepared to conclude that the alternative construction noise monitoring station NM2-A could conform to relevant requirements as set out in the EM&A Manual, namely:

- locate close to the major site activities which are likely to have noise impacts;
- locate close to the most affected existing NSRs; and
- take into account the possibility of minimizing disturbance to occupants at the NSRs during monitoring.

The Proposal for Alternative Noise Monitoring Station NM2-A has been approved by EPD on 16 April 2021.

The latest locations for the construction noise monitoring are listed in **Table 2.3**.

Table 2.3 Updated Noise Monitoring Stations for Baseline and Impact Monitoring

Station	Noise Sensitive Receiver	Monitoring Location	Position
NM1	Village house in Lei Yue Mun Hoi Pong Road Central	Pedestrian Road on Ground Floor	1 m from facade
NM2-A	No.79B, Lei Yue Mun Hoi Pong Road East	Pedestrian Road on Ground Floor	1 m from facade
NM3	Jockey Club Lei Yue Mun Plus	Fenced Road on Ground Floor	1 m from facade
NM4	No. 21C, Lei Yue Mun Hoi Pong Road East	Fenced Road on Ground Floor	1 m from facade

The location of all original construction noise monitoring stations and the alternative construction noise monitoring station are shown in **Figure 2.1**.





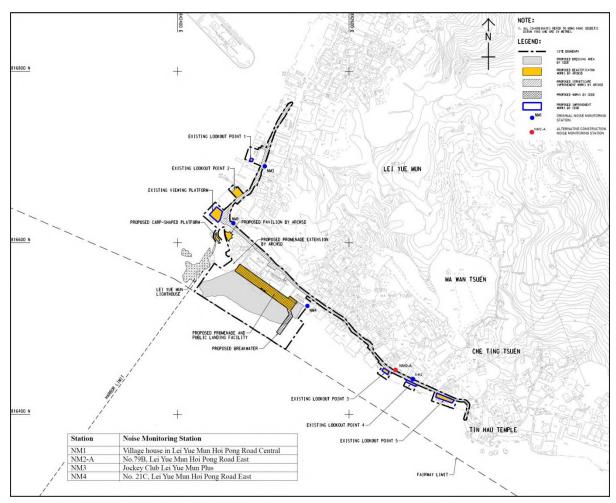


Figure 2.1 Noise Monitoring Locations





2.3. IMPACT MONITORING METHODOLOGY

Integrated sound level meter shall be used for the noise monitoring. The meter shall be in compliance with the International Electrotechnical Commission Publications 651: 1979 (Type 1) and 804: 1985 (Type 1) specifications. Immediately prior to and following each noise measurement the accuracy of the sound level meter shall be checked using an acoustic calibrator generating a known sound pressure level at a known frequency. Measurements may be accepted as valid only if the calibration levels before and after the noise measurements agree to within 1.0 dB(A). Calibration certificates of the instruments used are shown at **Appendix E**.

Noise measurements shall not be made in the presence of fog, rain, wind with a steady speed exceeding 5 m/s or wind with gusts exceeding 10 m/s. The wind speed shall be checked with a portable wind speed meter capable of measuring the wind speed in m/s.

Table 2.4 Impact Noise Monitoring Equipment

Equipment	Make and Model	
Sound Level Meter	Scarlet ST-11D	
Acoustic Calibrator	Pulsar Model 105	

2.4. ACTION AND LIMIT LEVELS

The Action/Limit Levels are in line with the criteria of Practice Note for Professional Persons (ProPECC PN 2/93) "Noise from Construction Activities – Non-statutory Controls" and Technical Memorandum on Environmental Impact Assessment Process issued by HKSAR Environmental Protection Department ["EPD"] under the Environmental Impact Assessment Ordinance, Cap 499, S.16 are presented in **Table 2.5**.

Table 2.5 Action and Limit Levels for Noise per EM&A Manual

Time Period	Action	Limit (dB(A))
	When one documented	75 dB(A) for residential areas;
0700-1900 on normal weekdays	complaint is received from any one of the noise sensitive receivers	70 dB(A) for school; and 65 dB(A) during examination period

Notes: Limits specified in the GW-TM and IND-TM for construction and operation noise, respectively.

If exceedances were found during noise monitoring, the actions in accordance with the Event and Action Plan shall be carried out according to **Appendix D**.





2.5. MONITORING RESULTS AND OBSERVATIONS

Referring to EM&A manual Section 4.6.1.1 construction noise monitoring should be carried out when there are project-related construction activities undertaken within a radius of 300m from the monitoring stations. Noise monitoring were carried out at the monitoring locations sited at LYM in the reporting month. The below **Table 2.6** summarized the results of the monitoring.

Table 2.6 Summary of Noise Monitoring Results in the Reporting Month

Location	Noise in dB(A)
LUCALIUII	L _{eq 30min} Daytime (7:00-19:00 on normal weekdays)
NM1	61.9 - 64.6
NM2-A	59.7 - 63.8
NM3	56.4 - 62.5
NM4	65.9 - 68.0

No noise monitoring exceedance was recorded in the reporting period.





3. WATER QUALITY

3.1. MONITORING REQUIREMENTS

As identified in the EIA Report, suspended sediment is the most critical water quality parameter caused by the dredging works. Marine water quality monitoring should be carried out during the dredging and filling operation to ensure that any unacceptable increase in suspended solids / turbidity and decrease in dissolved oxygen due to the dredging activities could be readily detected and timely action be taken to rectify the situation.

During the dredging (both capital and maintenance) and filling operation of the Project, water quality impact monitoring should be undertaken 3 days per week, at mid-flood and mid-ebb tides, with sampling / measurement at the designated monitoring stations. The locations for impact monitoring should be the same as those for baseline monitoring.

The impact water quality monitoring of the Project commenced on 14 September 2021.

3.2. WATER QUALITY PARAMETERS

The parameters that have been selected for measurement in situ and in the laboratory are those that were either determined in the EIA to be those with the most potential to be affected by the construction works or are a standard check on water quality conditions. Parameters to be measured in the impact monitoring are listed in **Table 3.1**.

Table 3.1 Parameters measured in the marine water quality monitoring

Parameters	Unit	Abbreviation				
In-situ measurements	In-situ measurements					
Dissolved oxygen*	mg/L	DO				
Temperature	∘C	-				
рН	-	-				
Turbidity*	NTU	-				
Salinity	mg/L	-				
Laboratory measurements						
Suspended Solids*	mg/L	SS				

Notes: * Key Parameters shown in EM&A manual Table 5.1.





3.3. MONITORING EQUIPMENT

For water quality monitoring, the following equipment will be used:

Dissolved Oxygen and Temperature Measuring Equipment - The instrument will be a portable, weatherproof dissolved oxygen measuring instrument complete with cable, sensor, comprehensive operation manuals, and will be operable from a DC power source. It will be capable of measuring: dissolved oxygen levels in the range of 0 - 20 mg/L and 0 - 200% saturation; and a temperature of 0 - 45 degrees Celsius. It shall have a membrane electrode with automatic temperature compensation complete with a cable of not less than 35 m in length. Sufficient stocks of spare electrodes and cables shall be available for replacement where necessary (e.g. YSI model 59 DO meter, YSI 5739 probe, YSI 5795A submersible stirrer with reel and cable or an approved similar instrument).

Turbidity Measurement Equipment - The instrument will be a portable, weatherproof turbidity-measuring unit complete with cable, sensor and comprehensive operation manuals. The equipment will be operated from a DC power source, it will have a photoelectric sensor capable of measuring turbidity between 0 - 1000 NTU and will be complete with a cable with at least 35 m in length (for example Hach 2100P or an approved similar instrument).

pH Measurement Instrument - The instrument should consist of a potentiometer, a glass electrode, a reference electrode and a temperature-compensating device. It should be readable to 0.1 pH in a range of 0 to 14. Standard buffer solutions of at least pH 7 and pH 10 should be used for calibration of the instrument before and after use.

Salinity Measurement Instrument - A portable salinometer capable of measuring salinity in the range of 0 - 40 ppt will be provided for measuring salinity of the water at each monitoring location.

Sample Containers and Storage - Water samples for SS should be stored in high density polythene bottles with no preservative added, packed in ice (cooled to 4 °C without being frozen) and delivered to the laboratory and analyzed as soon as possible after collection. Sufficient volume of samples should be collected to achieve the detection limit.

Water Depth Gauge – A portable, battery-operated echo sounder (for example Seafarer 700 or a similar approved instrument) will be used for the determination of water depth at each designated monitoring station. This unit will preferably be affixed to the bottom of the work boat if the same vessel is to be used throughout the monitoring programme. The echo sounder should be suitably calibrated. The ET shall seek approval for their proposed equipment with the client prior to deployment.

Positioning Device – A Global Positioning System (GPS) shall be used during monitoring to allow accurate recording of the position of the monitoring vessel before taking measurements. The Differential GPS, or equivalent instrument, should be suitably calibrated at appropriate checkpoint (e.g. Quarry Bay Survey Nail) to verify that the monitoring station is at the correct position before the water quality monitoring commence.

Contract No. PI 2/2020 Environmental Monitoring Works for Lei Yue Mun Waterfront Enhancement Project 15th Monthly EM&A Report (July 2022)





Water Sampling Equipment - A water sampler, consisting of a PVC or glass cylinder of not less than two litres, which can be effectively sealed with cups at both ends, will be used (e.g. Kahlsico Water Sampler 13SWB203 or an approved similar instrument). The water sampler will have a positive latching system to keep it open and prevent premature closure until released by a messenger when the sampler is at the selected water depth.

Calibration certificate for the water quality monitoring equipment is attached in **Appendix H**.

3.4. SAMPLING / TESTING PROTOCOLS

All in situ monitoring instruments will be checked, calibrated and certified by a laboratory accredited under HOKLAS or any other international accreditation scheme before use, and subsequently recalibrated at monthly intervals throughout the stages of the water quality monitoring. Responses of sensors and electrodes will be checked with certified standard solutions before each use.

On-site calibration of field equipment shall follow the "Guide to On-Site Test Methods for the Analysis of Waters", BS 1427: 2009. Sufficient stocks of spare parts shall be maintained for replacements when necessary. Backup monitoring equipment shall also be made available so that monitoring can proceed uninterrupted even when equipment is under maintenance, calibration etc.

3.5. LABORATORY MEASUREMENT AND ANALYSIS

All laboratory work shall be carried out in a HOKLAS accredited laboratory. Sufficient volume of each water sample shall be collected at the monitoring stations for carrying out the laboratory analyses. Using chain of custody forms, collected water samples will be transferred to an HOKLAS accredited laboratory for immediate processing. The determination work shall start within 24 hours after collection of the water samples. The laboratory measurements shall be provided to the client within 5 working days of the sampling event. Analytical methodology and sample preservation of other parameters will be based on the latest edition of Standard Methods for the Examination of Waste and Wastewater published by APHA, AWWA and WPCF and methods by USEPA, or suitable method in accordance with requirements of HOKLAS or another internationally accredited scheme.

Detailed testing methods, pre-treatment procedures, instruments use, Quality Assurance / Quality Control (QA/QC) details (such as blank, spike recovery, number of replicate samples per batch, etc.), detection limit and accuracy were submitted to EPD for approval on 3 February 2021 prior to the commencement of monitoring programme. EPD may also request the laboratory to carry out analysis of known standards provided by EPD for quality assurance. The QA / QC shall be in accordance with the requirements of HOKLAS or international accredited scheme. The QA/ QC results shall be reported. The testing methods and related proposal were checked and certified by IEC before submission to EPD for approval.

Parameters for laboratory measurements, their standard methods and their detection limits are presented in **Table 3.2**.





Table 3.2 Laboratory measurements, standard methods and corresponding detection limits of marine water quality monitoring

Parameter	Standard Method	Detection Limit	Accuracy
Suspended Solids (mg/L)	APHA 2540D	1.0*	±17%

Remark *: Albeit the selected HOKLAS accredited laboratories' standard testing method of total suspended solid according to APHA Method 2540D is capable of reporting the results to 1 mg/L, the laboratory advised that results reported between 1 and 2 mg/L shall be considered to be used as reference value and receive no HOKLAS accreditation for this particular range of result.

If exceedances were found during water monitoring, the actions in accordance with the Event and Action Plan shall be carried out according to **Appendix G**.

3.6. MONITORING LOCATIONS

The water quality monitoring locations for baseline are in accordance to the EM&A Manual and detailed in **Table 3.3** below. The water quality monitoring schedule should be submitted to EPD at least 1 week before the first day of the monitoring month.

Table 3.3 Location of Water Quality Monitoring Station

Station	Easting	Northing	Description
C1	842134	816765	Control Station
C2	842946	816172	Control Station
M1	842605	816433	Coral Communities (Impact Monitoring Station)
M2	842329	816615	100m away from the dredging site (Impact Monitoring Station)
M3	842639	816410	Coral Communities (Impact Monitoring Station)
M4	842515	816878	Sam Ka Tsuen Typhoon Shelter (Impact Monitoring Station)





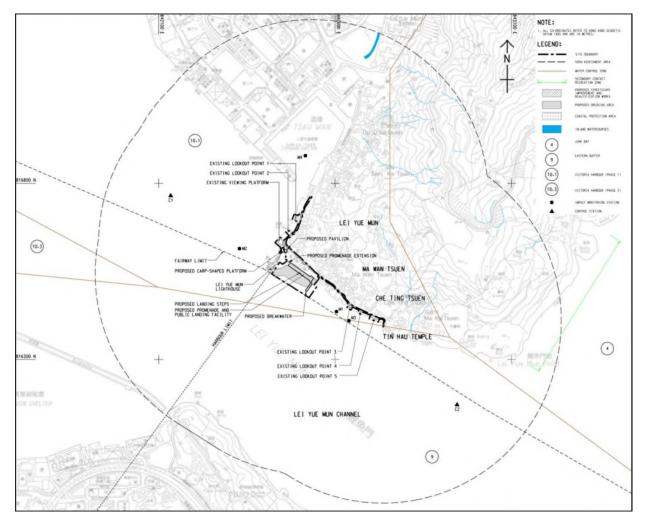


Figure 3.1 Water quality monitoring locations under EM&A Manual

3.7. SAMPLING FREQUENCY

During periods when there are dredging or filling works, impact monitoring should be undertaken at the monitoring stations as shown in **Figure 3.1** and **Table 3.3** three days per week during the construction phase after the commencement of marine construction works and dredging or filling activities. Monitoring at each station would be undertaken at both mid-ebb and mid-flood tides on the same day. The interval between two sets of monitoring would not be less than 36 hours. The monitoring frequency would be increased in the case of exceedances of Action/Limit Levels if considered necessary by ET. Monitoring frequency would be maintained as far as practicable.





3.8. SAMPLING DEPTHS & REPLICATION

For water quality monitoring, each station will be sampled and measurements/ water samples will be taken at three depths, 1 m below the sea surface, mid-depth and 1 m above the seabed. For stations that are less than 3 m in depth, only the mid depth sample shall be taken. For stations that are less than 6 m in depth, only the surface and seabed sample shall be taken. For in situ measurements, duplicate readings shall be made at each water depth at each station. Duplicate water samples shall be collected at each water depth at each station.

3.9. ACTION AND LIMIT LEVELS

Based on the baseline water quality monitoring data and the derivation criteria specified in the Baseline Monitoring Report, the Action/Limit Levels have been derived for the Project and presented in **Table 3.4**.

Table 3.4 Derived Action and Limit Levels for Water Quality Monitoring

Parameters	Action	Limit					
During the Dredging and Filling Operation of the Project							
DO in mg/L	Surface and Middle 7.95 mg L ⁻¹ Bottom 7.91 mg L ⁻¹	Surface and Middle 4 mg L ⁻¹ Bottom 2 mg L ⁻¹					
SS in mg/L (Depthaveraged)	6.73 mg L ⁻¹ or 120% of control station's SS at the same tide of the same day	17.60 mg L-1 or 130% of control station's SS at the same tide of the same day and specific sensitive receiver water quality requirements (e.g. required SS level for concerned seawater intakes)					
Turbidity in NTU (Depth-averaged)	7.42 NTU or 120% of control station's SS at the same tide of the same day compared with corresponding data from control station	7.79 NTU or 130% of control station's SS at the same tide of the same day compared with corresponding data from control station					

Notes:

- i. "Depth-averaged" is calculated by taking the arithmetic means of reading of all three depths.
- ii. For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.
- iii. For Turbidity, SS and Salinity, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.

3.10. MONITORING PROGRAMME

The ET of the Project had conducted the baseline water monitoring between 15 April 2021 to 11 May 2021 at all six designated monitoring stations (i.e. C1, C2, M1, M2, M3 and M4). The monitoring results was presented in Baseline Water Quality Monitoring Report separately.





The commencement of marine construction activities for the Project is expected to be commenced in mid-September 2021 and the impact water quality monitoring of the Project commenced on 14 September 2021.

3.11. MONITORING RESULTS AND OBSERVATIONS

The impact water quality monitoring was conducted at all six monitoring stations (i.e. C1, C2, M1, M2, M3 and M4). The monitoring results are summarized in **Table 3.5**. Details of water quality monitoring results are presented in **Appendix I**.

Table 3.5 Summary of Water Quality Monitoring Results in the Reporting Month

Location		Parameters							
		Dissolved Oxygen (mg/L)		Turbidity		Suspended Solids			
		S&M ⁽ⁱ⁾		B ⁽ⁱ⁾		(NTU)		(mg/L)	
		Mid-Flood	Mid-Ebb	Mid-Flood	Mid-Ebb	Mid-Flood	Mid-Ebb	Mid-Flood	Mid-Ebb
	Avg.	8.58	8.83	8.60	8.82	3.66	4.24	3	3
C1(ii)	Min.	8.05	8.44	8.06	8.43	3.03	3.41	3	3
	Max.	9.39	9.31	9.36	9.29	4.79	5.47	5	5
	Avg.	8.90	8.81	8.91	8.83	4.14	3.72	4	4
C2(ii)	Min.	7.99	8.22	8.02	8.30	3.38	2.96	3	3
	Max.	9.42	9.32	9.49	9.26	5.47	4.75	10	9
	Avg.	8.64	8.65	8.63	8.67	2.96	3.30	3	3
M1(ii)	Min.	8.09	8.03	8.09	8.04	2.11	2.36	3	3
	Max.	9.13	9.33	9.22	9.31	4.20	4.13	5	5
	Avg.	8.71	8.69	8.72	8.69	3.15	3.44	3	3
M2(ii)	Min.	8.19	8.03	8.15	8.06	2.38	2.39	3	3
	Max.	9.16	9.31	9.11	9.34	4.74	4.35	4	6
	Avg.	8.60	8.62	8.60	8.63	3.25	3.04	3	3
M3(ii)	Min.	8.10	8.00	8.07	7.90	2.44	2.14	3	3
	Max.	9.35	9.39	9.45	9.44	4.21	4.14	5	4
	Avg.	8.63	8.87	8.68	8.86	3.05	3.18	3	3
M4(ii)	Min.	8.00	8.23	8.02	8.26	2.49	2.12	3	3
	Max.	9.23	9.33	9.26	9.35	3.74	4.04	4	5

Notes:

No water quality monitoring exceedance was recorded in the reporting period.

i. "S&M": Surface and Middle, "B": Bottom.

ii. Water quality monitoring on 2 July 2022 was cancelled due to inclement weather.





4. ECOLOGICAL

4.1. INTRODUCTION

Background

Lei Yue Mun (LYM) is one of the most popular tourist attractions in Hong Kong, for its pleasant seaside ambience and excellent seafood. LYM was included in the Tourism Commission (TC)'s Tourism District Enhancement Programme to enrich Hong Kong's appeal to visitors. In 2003, initial minor improvements were completed along the LYM waterfront, and further improvement of facilities along the LYM waterfront was planned.

The Project, Lei Yue Mun Waterfront Enhancement Project is a Designated Project under the Environmental Impact Assessment Ordinance (EIAO). An EIA Report under Agreement No. CE 54/2015 (EP) (Report No.: AEIAR-219/2018) for the Project was approved under EIAO on 26 October 2018 in accordance with the EIA Study Brief (No. ESB-287/2015) and the Technical Memorandum on Environmental Impact Assessment Process (EIAO-TM). The corresponding Environmental Permit was issued (EP no.: EP-564/2018) by the Director of Environmental Protection (DEP) on 10 December 2018.

The works to be executed under Contract No. CV/2020/09 Construction of Lei Yue Mun Public Landing Facility (hereinafter called "the Contract") mainly comprise the construction of a public landing facility, a breakwater, and structural improvement works to an existing viewing platform and a lookout point. Dredging and excavation works for berthing of vessels at the new public landing facility will be involved, which might directly affect the hard coral colonies. Thus, a coral baseline survey that involves a detail coral mapping survey shall be conducted to ascertain the location, sizes, species and health status of the corals with reference to the extent of marine ecological survey indicated at Figure 9.1 of the EIA Report under the Contract.

Coral mapping surveys were conducted in March 2021, forty-four (44) octocoral colonies recorded on movable boulders shall be translocated to a coral recipient site Fat Tong Chau (FTC), Junk Bay.

Coral translocation was conducted on 20 and 21 May 2021, a total of forty-seven (47) octocoral colonies attached to movable boulders were translocated to the coral recipient site FTC, Junk Bay.

A Post-translocation Coral Survey was conducted on 21 May 2021, to monitor the health condition of the tagged colonies after coral translocation, including the tagged colonies from the donor site (i.e. the proposed dredging area at LYM) and also the tagged naturally occurring corals at the coral recipient site at Fat Tong Chau (FTC), Junk Bay.

Followed by the Post-translocation Coral Survey, Post-translocation monitoring will be conducted quarterly for one year.





4.2. METHOD

Following coral translocation which was undertaken on 20 and 21 May 2021, 10 selected translocated coral colonies as well as the 10 tagged natural coral colonies at the recipient site will be monitored once every 3 months for a period of 12 months. The monitoring team will record the following parameters (using the same methodology adopted during the pre-translocation survey): size, presence, survival, health conditions (percentage of mortality) and percentage of sediment of each translocated coral colonies. The general environmental conditions including weather, sea, and tidal conditions of the coral recipient site will also be monitored.

Photographic records of the translocated and natural coral colonies will be taken as far as possible maintaining the same aspect and orientation as photographs taken for the pre-translocation surveys. All the tags for marking the translocated and natural coral colonies will be removed / retrieved once the monitoring programme is completed.

The results of the post-translocation monitoring surveys should be reviewed with reference to findings of the baseline survey and the data from original colonies at the recipient site.

If, during the post-translocation monitoring, observations of any die-off / abnormal conditions of the translocated corals are made, the ET will inform the Contractor, Independent Environmental Checker (IEC)/ Environmental Project Office (ENPO), Agriculture, Fisheries and Conservation Department (AFCD) and in liaison with AFCD investigate any measures needed.

The results of the post-translocation monitoring will be reviewed with reference to findings of the baseline survey and the data from naturally occurring colonies at the recipient site and evaluated against Action and Limit Levels. Evaluation will be based on recorded changes in percentage of partial mortality of the corals. Action and Limit Levels are defined in **Table 4.2.1** below.

Table 4.2.1 Action and Limit Levels for Coral Post-translocation Monitoring

Parameter	Action Level Definition	Limit Level Definition
Mortality	a 15% increase in the percentage of partial mortality on the corals occurs at more than 20% of the translocated coral colonies that are not recorded on the	If during the Post-translocation Monitoring a 25% increase in the percentage of partial mortality at more than 20% of the translocated coral colonies occurs that is not recorded at the original corals at the recipient site, then the Limit Level is exceeded.

Post-translocation monitoring results will be evaluated against Action and Limit Levels. Evaluation will be based on recorded changes in percentage of partial mortality of the corals. Action and Limit Levels are defined in **Table 4.2.1**.

If the defined Action Level or Limit Level for coral monitoring as listed in **Table 4.2.1** is exceeded, the actions as set out in **Table 4.2.2** will be implemented.





Table 4.2.2 Event and Action Plan for Coral Post-translocation Monitoring

Event	Action						
Event	ET Leader	IEC	Main Contractor				
Action Level Exceedance	 Check monitoring data; Identify the source(s) of impact; Inform the IEC and main contractor of the findings; Increase the monitoring to at least once a month to confirm findings; Liaise with AFCD to investigate any mitigation measures needed; and Propose mitigation measures for consideration. 	Discuss monitoring with the ET; Review proposals for additional monitoring and any other measures and advise the main contractor accordingly.	Discuss with the IEC additional monitoring requirements and any other measures proposed by the ET; Make the agreement on the measures to be implemented.				
Limit Level Exceedance	1. Undertake Steps 1-5 as in the Action Level Exceedance. If further exceedance of Limit Level, propose enhancement measures for consideration.	 Discuss monitoring with the ET; Review proposals for additional monitoring and any other measures and advise the main contractor accordingly. 	 Discuss with the IEC additional monitoring requirements and any other measures proposed by the ET; Make the agreement on the measures to be implemented. 				

Contract No. PI 2/2020 Environmental Monitoring Works for Lei Yue Mun Waterfront Enhancement Project 15th Monthly EM&A Report (July 2022)





4.3. MONITORING RESULTS AND OBSERVATIONS

The final session of Post-translocation Monitoring was performed on 26 May 2022 and fulfilled the approved Coral Translocation Plan requirement (i.e monitoring will be conducted quarterly for one year after the coral translocation work.) and additional monitoring will be conducted after the construction work.

4.4. DISCUSSION AND CONCLUSION

No Post-translocation Monitoring was performed in the reporting month.

Contract No. PI 2/2020 Environmental Monitoring Works for Lei Yue Mun Waterfront Enhancement Project 15th Monthly EM&A Report (July 2022)





5. WASTE

The waste generated from this Project includes inert construction and demolition (C&D) materials, and non-inert C&D materials. Non-inert C&D materials are made up of general refuse, vegetative wastes and recyclable wastes such as plastics and paper/cardboard packaging waste. Steel materials generated from the project are also grouped into non-inert C&D materials as the materials were not disposed of with other inert C&D materials. With reference to relevant handling records and trip tickets of this Project, the quantities of different types of waste generated in the reporting month are presented in **Table 5.1**.





Table 5.1 Quantities of Waste Generated from the Project during 2022

Department: CEDD

Contract: CV/2020/09 - Construction of Lei Yue Mun Public Landing Facility



Monthly Summary Waste Flow Table for Year 2022

				Qu	antities	of Inert	C&D M	aterials 6	Senerat	ed Mon	thly						Quanti	ties of C	&D Was	tes Gen	erated N	Vonthly	/	
Month	Total Quantity Generated (in '000m³)		Generated (see Note 2)		Reused in the Contract (in '000m³)		Reused in other Projects (in '000m²)		Disposed as Public Fill (in '000m²)		Disposal at Alternative Disposal Ground (in '000m ³)		Imported Fill (in '000m²)		Metals (in '000kg)		Paper / Cardboard packaging (in '000kg)		Plastics (see Note 3) (in '000kg)		Chemical Waste (in '000kg)		Others, e.g. general refuse (in '000m²)	
Jan	0.02	0.48	0	0	0	0	0	0	0.02	0	0	0.48	0	0	0	0	0.	0	0	0	0	0	0	0
Feb	2.02	0	0	0	0	0	0	0	0.02	0	2	0	0	0	0	0	0	0	0	0	0	0	0.02	0
Mar	2.02	0	0	0	0	0	0	0	0.02	0	2	0	0	0	0	0	0	0	0	0	0	0	0.01	0
Apr	2.02	0.005	0	0	0	0	0	0	0.02	0	2	0	0	0	0	ō	0	0	0	0	0	0	0.01	0,005
May	2.02	0	0	0	.0	0	0	0	0.02	0	2	0	0	0	0	0	0	0	0	0	0	0	0,005	0
Jun	2.02	0	0	0	0	0	0	0	0.02	0	2	0	0	0	0	0	0	0	0	0	0,01	0	0,005	0
Sub-total	10.12	0.485	0	0	0	0	0	0	0.12	0	10	0.48	0	0	0	0	0	0	0	0	0.01	0	0.05	0.005
Jul	0.2	781.16	0	0	0	0	0	0	0.2	0	0	781.16	0	0	0	0	0	0	0	0	0	0	0.005	0
Aug	0,3		0		.0		0	18.1	0,3		0.0		0		0		0		0		0		0,005	
Sep	0,3		0		0		0		0,3		0.0		0		0		0		0		0		0,005	
Oct	0.2		0		0		0		0.2		0.0		0		0		0		0		0		0.005	
Nov	0.2		0		0		0		0.2		0.0		0		0		0		0		0		0.005	
Dec	0.2		0		0		0		0.2		0.0		0		0	1	0		0		0.01		0.005	
Total	11.52	781.65	0	0	0	0	0	0	1.52	0	10.00	781.64	0	0	0	0	0	0	0	0	0.02	0	0.08	0,005

		F	orecast of Total	Quantities of Co	&D Materials to	be Generated fr	om the Contrac	t.			
Total Quantity Generated	Broken Concrete (see Note 2)	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Disposal at Alternative Disposal Ground	Imported Fill	Metals	Paper / Cardboard packaging	Plastics (see Note 3)	Chemical Waste	Others, e.g. general refus
(in '000m²)	(in '000m²)	(in '000m³)	(in '000m ³)	(in 000m²)	(in '000m²)	(in '000m³)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m²)
13.2	0	0	0	2.7	10.0	0	0.1	0.1	0.06	0.04	0.20

Notes: (1) The waste flow table shall also include C&D materials that are specified in the contract to be imported for use at the Site.
(2) Broken concrete for recycling into aggregates.

(3) Plastics refer to plastic bottles/ containers, plastic sheets/ foam from packaging material.





Architectural Services Department	Form No. D/OI.03/09.004
-----------------------------------	-------------------------

Contract No. / Works Order No.: - SS J521

Waste Flow Table (for Capital Works Contracts NOT subject to EMP) 2022 [year]

[to be submitted not later than the 15th of Mar, Jun, Sep & Dec following the reporting Quarter]

(All quantities shall be rounded off to 3 decimal places.)

	Actual Quantities	of Inert Con	struction Wa	Actual Quantities of Non-inert Construction Waste Generated Quarterly						
	(a)=(b)+(c)+(d)+(e)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
Quarter ending	Total Quantity Generated	Broken Concrete (see Note 3)	Reused in the Contract	Reused in other Projects	Disposed of as Public Fill	Metals	Paper/ cardboard packaging	Plastics (see Note 2)	Chemical Waste	Others, e.g. general refuse disposed of at Landfill
	(in '000m ³)	(in '000m ³)	(în '000m³)	(in '000m³)	(in '000m ³)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in'000m³)
Jan	0.032	0.000	0.000	0.000	0.032	0.000	0.000	0.000	0.000	0.002
Feb	0.009	0.000	0.000	0.000	0.009	0.000	0.000	0.000	0.000	0.000
Mar	0.029	0.000	0.000	0.000	0.029	0.000	0.000	0.000	0.000	0.000
Apr	0.036	0.000	0.000	0.000	0.036	0.000	0.000	0.000	0.000	0.000
May	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Jun	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.370
Jul	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total	0.106	0.000	0.000	0.000	0.106	0.000	0.000	0.000	0.000	2,372

Notes:

- (1) The waste flow table shall also include construction waste that are specified in the Contract to be imported for use at the site.
- (2) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material.
- (3) Broken concrete for recycling into aggregates.
- (4) If necessary, use the conversion factor: 1 full load of dumping truck being equivalent to 6.5 m³ by volume.





6. Summary of Monitoring Exceedance, Complaints, Notification of Summons and Prosecutions

No noise-related exceedance was recorded in the reporting period.

No water quality monitoring exceedance was recorded in the reporting period.

No notification of summons and prosecution was received in the reporting period.

Statistics on complaints and regulatory compliance are summarized in **Appendix J**.





7. EM&A SITE INSPECTION

Site inspections were carried out on a weekly basis to monitor the implementation of proper environmental pollution control and mitigation measures under the Contract. In the reporting period, site inspections were carried out on 7, 14, 21 and 28 July 2022. A joint site inspection with IEC was carried out on 7 July 2022.

Environmental deficiencies were observed during weekly site inspection. Key observations during the site inspections and during the reporting period are summarized in **Table 7.1**.

Table 7.1 Site Observations

Date	Environmental Observations	Follow-up Status
Follow-up action	n of last month site observation(s)	
	1. Nil.	1
Site observation	n(s) in reporting month	
07 Jul 22	CEDD 1. Silt curtain was not intact, Silt curtain condition should be checked and improved. ASD	1. Rectified.
	1. Nil.	1. N.A.
14 Jul 22	CEDD 1. At the break water, stagnant water was observed within the container, and construction materials should be cleared.	 Rectified. Rectified.
	 Housekeeping on sea within silt curtain area should be cleared. The chemical container was observed on the ground. 	3. Rectified.
	ASD1. Chemical container should be placed on the drip tray.	1. Rectified.
21 Jul 22	CEDD1. At the platform, stagnant water and little oil was observed on the drip tray of generator.	1. Rectified.
	2. The condition of noise barrier should be checked and improved.	2. Rectified.
	3. The silt curtain should be checked and improved.	3. Rectified.
	ASD 1. Nil.	1. N.A.





Date	Environmental Observations	Follow-up Status
28 Jul 22	 CEDD Silt curtain was not intact. Silt curtain condition should be checked and improved. Waste/housekeeping was observed on the seasurface within silt curtain.	 Rectified. Rectified. Rectified.

According to the EIA Study Report, Environmental Permit, contract documents and EM&A Manual, the mitigation measures detailed in the documents should be implemented as much as practical during the reporting period. An updated Implementation Status of Environmental Mitigation Measures (EMIS) is provided in **Appendix B**.





8. FUTURE KEY ISSUES

Works to be undertaken in the next reporting month are:

Works Description	Location
<u>Contract No. CV/2020/09</u>	
Rock excavation near sea-side of landing	Landing Facility
Trim down excessive casing & H-section along pipe pile at	Landing Facility
Landing	
Excavation for construction of panel wall and capping beam	Landing Facility
Bulk excavation level down the temporary platform at Landing	Landing Facility
Construction for vertical seawall at landing	Landing Facility
Cement grout to the completed socketed pile at breakwater	Breakwater Area
Modification of current temporary platform at breakwater	Breakwater Area
Contract No. SS J521	
Installation of Aluminum panel	Viewing platform
Excavation for left side of Rest Garden Balustrade Concrete	Rest Garden Balustrade Concrete
Kerb	Kerb
Formwork & Rebar fixing for left side of Rest Garden Balustrade	
Concrete Kerb	
Construct the left side of Rest Garden Balustrade Concrete Kerb	
Formwork & Rebar for on grade slab nearby planter 2	Planter 2
Backfill the existing soil	Site
Floor finishing work nearby play area	
Planting schedule at outside boundary Rest Garden]

The major environmental impacts brought by the above construction works will include:

- Construction dust and noise generation from excavation and construction works
- Waste generation from construction activities
- Impact on water quality from marine construction works and inland construction works

The key environmental mitigation measures for the Project in the coming reporting period associated with the above construction works will include:

- Dust suppression by regular wetting and water spraying for construction works
- Reduction of noise from equipment and machinery on-site
- Sorting and storage of general refuse and construction waste
- The dredging rate shall not exceed 100 m³ per hour with a maximum working period of 12 hours per day throughout the construction phase and operation phase.
- Silt curtains should be deployed enclosing the dredging operation. Regular inspection on the silt curtain on the silt curtain condition by the contractor should be carried out.

Contract No. PI 2/2020 Environmental Monitoring Works for Lei Yue Mun Waterfront Enhancement Project 15th Monthly EM&A Report (July 2022)





Referring to EM&A Manual Section 4.6.1.1, the impact noise and water quality monitoring should be carried out at all the designated monitoring stations when there are project-related construction activities undertaken within a radius of 300m from the monitoring stations.





9. CONCLUSIONS AND RECOMMENDATIONS

This is the 15th Monthly EM&A Report for the Project which summarizes the key findings of the EM&A programme during the reporting period from 1 July to 31 July 2022, in accordance with the EM&A Manual and the requirement under EP-564/2018.

No noise-related exceedance was recorded in the reporting period.

No water quality monitoring exceedance was recorded in the reporting period.

Weekly environmental site inspection was conducted during the reporting period. No major deficiency was observed during site inspection. The environmental performance of the project was therefore considered satisfactory.

No environmental complaint was received in the reporting period.

No notification of summons or prosecution was received since commencement of the Contract.

Agreed with the EIA prediction in Section 14.2.4.4, with the adoption of good site practice, quiet PME and noise barriers/enclosure, the noise levels at all the representative NSRs complied with the EIAO-TM noise criteria. The comparison between the EM&A data in the reporting month and the most updated noise level prediction as presented in the Noise Mitigation Plan (NMP) is presented in **Table 9.1**.

Table 9.1 Comparison between the EM&A Data in the Reporting Month and the Updated Noise Level Predictions

EIA Noise Assessment Point (NAP)	Prediction [dB(A)]	EM&A Monitoring Station	Noise Levels [db(A)]
HPRC V1	62-72	NM1	61.9 - 64.6
HPRE 75B*	55-75	NM2-A	59.7 - 63.8
LYMP	70	NM3	56.4 - 62.5
HPRE 21C	67-75	NM4	65.9 - 68.0

^{*}NM2-A is located between NAPs HPRE 75B and HPRE 81, with lack of data in the NMP, the EIA prediction was used instead.

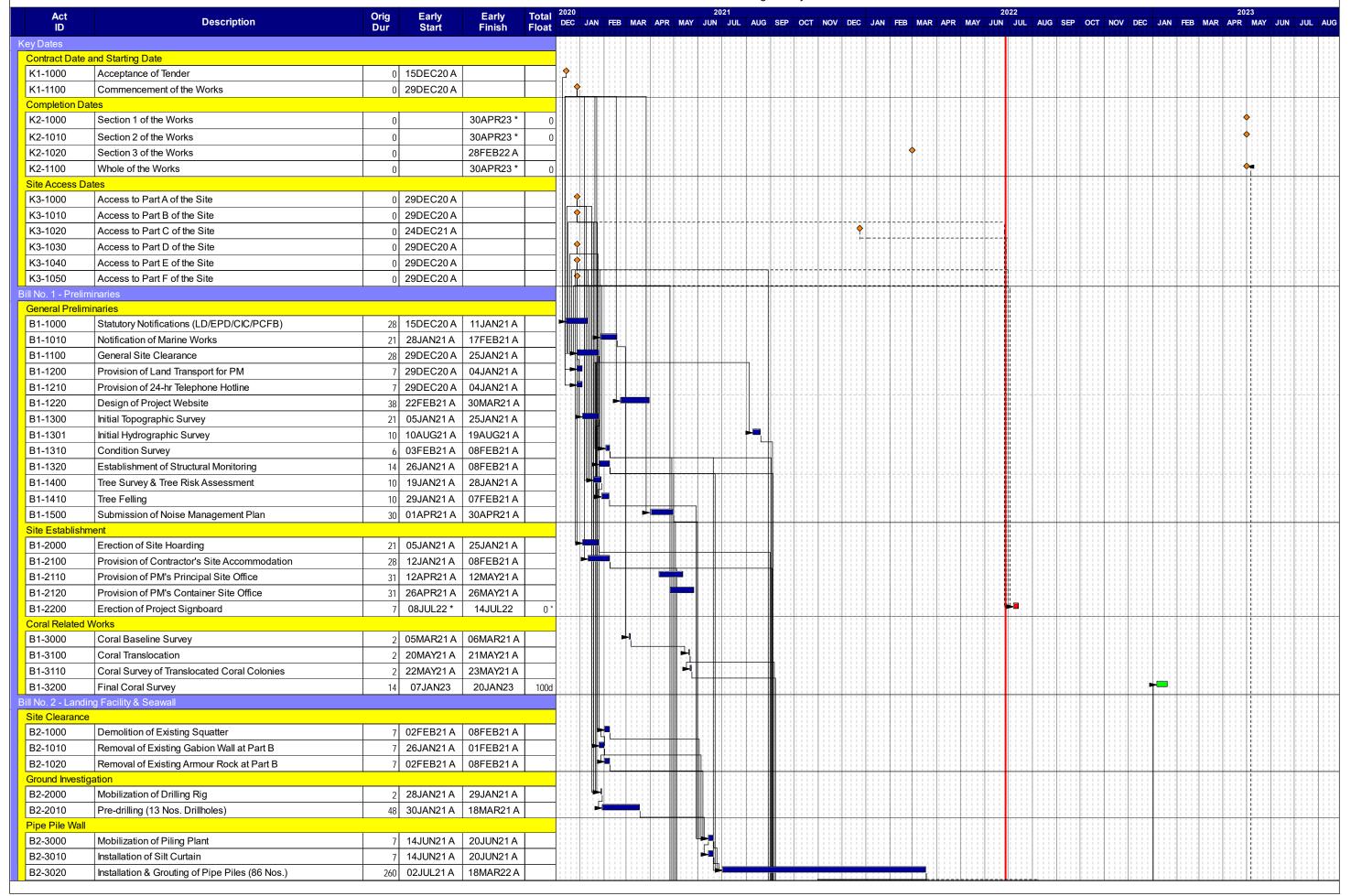
The ET will keep track on the construction works to confirm compliance of environmental requirements and the proper implementation of all necessary mitigation measures.

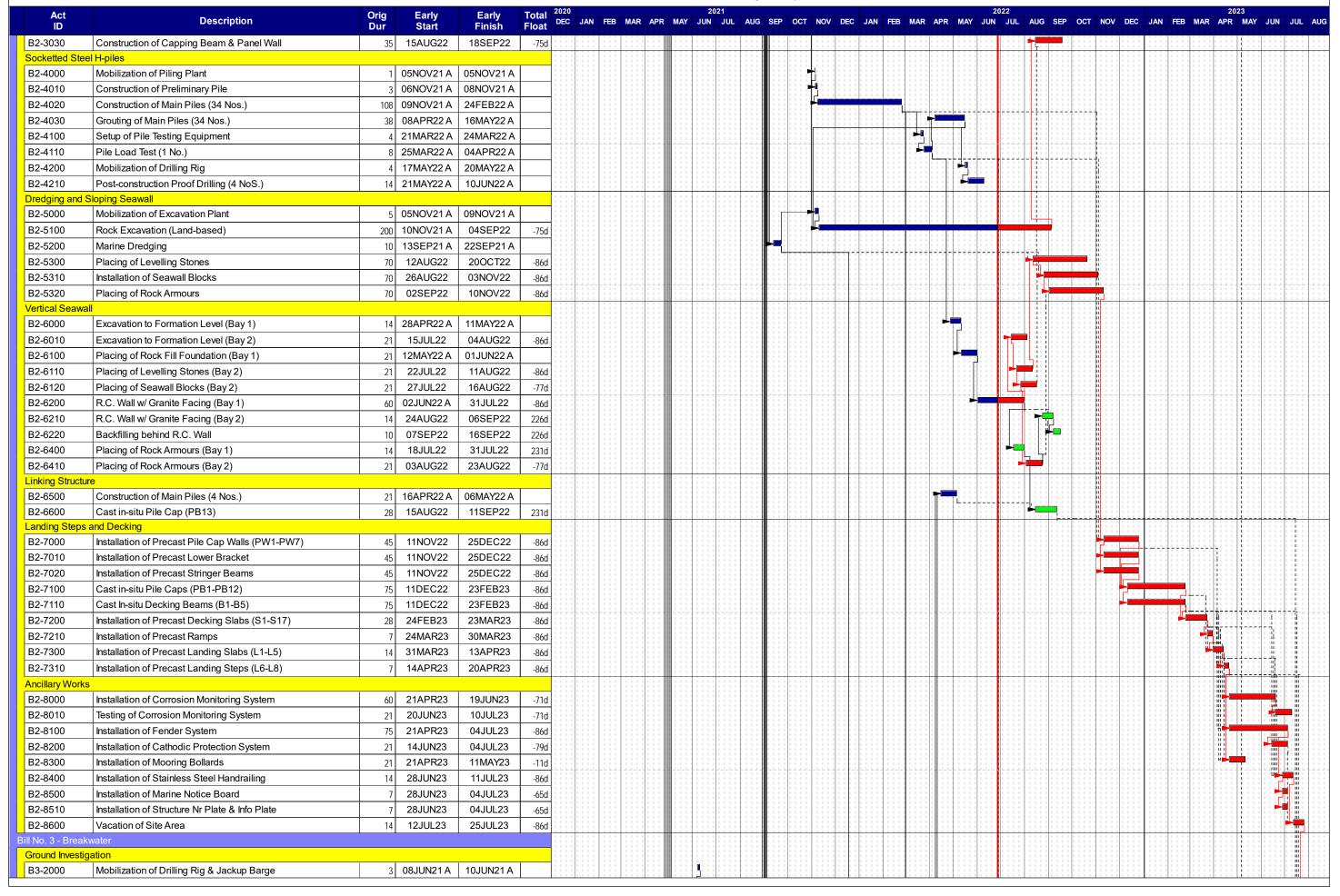
Contract No. PI 2/2020 Environmental Monitoring Works for Lei Yue Mun Waterfront Enhancement Project 15th Monthly EM&A Report (July 2022)





Appendix A Master Programme





Act ID	Description	Orig Dur	Early Start	Early Finish	Total Float	2021 2022 2023 JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC JAN FEB MAR APR MAY JUN
B3-2010	Pre-drilling (8 Nos. Drillholes)	33	11JUN21 A	13JUL21 A		
Temporary W	orking Platform					
B3-1000	Installation of Silt Curtain	3	04NOV21 A	06NOV21 A		
B3-1100	Submission of Temporary Works Design	54	110CT21 A	03DEC21 A		
B3-1200	Installation of Temporary Piles	24	28DEC21 A	20JAN22 A		
B3-1210	Installation of Temporary Working Platform			29JAN22 A		
Socketted Ste	eel H-piles					
B3-3000	Mobilization of Piling Plant	7	11MAR22 A	17MAR22 A		
B3-3010	Construction of Preliminary Piles	23	24MAR22 A	15APR22 A		
B3-3020	Construction of Main Piles (34 Nos.)	99	16APR22 A	23JUL22	-1d	
B3-3100	Setup of Pile Testing Equipment	5	06JUL22	10JUL22	-1d	
B3-3110	Pile Load Test (2 Nos.)	20	11JUL22	30JUL22	-1d	
Breakwater S						
B3-4000	Modification of Temporary Working Platform	7	31JUL22	06AUG22	-1d	
B3-4100	Cast In-situ Pile Caps (PB14 & PB15)	90	07AUG22	04NOV22	-1d	
B3-4110	Cast In-situ Breakwater Tip Pile Cap (BW2)	42	05NOV22	16DEC22	-1d	
B3-4200	Installation of Precast Frame Units (BW1)	21	17DEC22	06JAN23	-1d	
B3-4210	Installation of Precast Frame Unit (BW3)	14	07JAN23	20JAN23	-1d	
B3-4300	Cast In-situ Stitching Joint	1/1	21JAN23	03FEB23	-1d	
B3-4400	Removal of Temporary Working Platform	21	18MAR23	07APR23	-1d	
Ancillary Worl			10.11/11/20	0.7111120	1 -10	
B3-5000	Installation of Corrosion Monitoring System	28	04FEB23	03MAR23	-1d	
B3-5000	Testing of Corrosion Monitoring System	1/1	04FEB23 04MAR23	17MAR23	-1d	
B3-5010	Installation of Navigation Light Post	14	04WAR23	21APR23	-1d	
B3-5100	Vacation of Site Area	14	22APR23	01MAY23	-1d	
	cout Point and Viewing Platform	10	ZZAPRZS	UTIVIATZS	-10	
	Works at Lookout Point					
B4-1000	Demolition of Existing Wall	7	10MAY21 A	16MAY21 A	T	
B4-1100	Levelling of Existing Beach	14	17MAY21 A	31MAY21 A		
B4-1200	Mobilization of Piling Plant	14	07JUN21 A	10JUN21 A	+	
B4-1210	Installation of Pipe Piles (40 Nos.)	74	11JUN21 A	23AUG21 A		
B4-1210	Trimming of Pipe Piles for Wall Openings	74	10SEP21 A	16SEP21 A		
B4-1220	Infill Grouting of Pipe Piles	7		06NOV21 A		
B4-1280	Demobilization and Site Preparation		28NOV21 A	18DEC21 A		
B4-1290	Excavation and Placing of Concrete Blinding			20JAN22 A		
B4-1300	Casting of Skin Wall	3/		05MAR22 A		
B4-1400	Laying of Concrete Paving	0	I SIVIAR 22 A	19MAR22 A	1	
•	Works at Viewing Platform Relocation of Existing Gabion Blocks	,	10SEP21 A	15SEP21 A	1	
B4-2000		0		15SEP21 A		
B4-2010	Temporary Modification of Existing Drainage	29	18AUG21 A 16SEP21 A			
B4-2100	Mobilization of Piling Plant	/		22SEP21 A		
B4-2110	Installation of Pipe Piles (30 Nos.)	47	25OCT21 A	10DEC21 A	+	
B4-2120	Infill Grouting of Pipe Piles	6	11DEC21 A	16DEC21 A		
B4-2130	Demobilization and Site Preparation	10	17DEC21 A	26DEC21 A	_	
B4-2200	Excavation to Formation Level	20	19JAN22 A	07FEB22 A	+	
B4-2210	Placing of Levelling Stones		08FEB22 A	09FEB22 A		
B4-2219	Precasting of Seawall Blocks	35	22DEC21 A	25JAN22 A		
B4-2220	Installation of Seawall Blocks	2	10FEB22 A	11FEB22 A		
B4-2221	Precasting of Concrete Backing w/ Granite Facing		22DEC21 A	29JAN22 A		
B4-2230	Placing of Concrete Blinding		21FEB22A	22FEB22 A		
B4-2240	Installation of Concrete Backing		21FEB22A	22FEB22 A		
B4-2250	Cast in-situ Concrete Coping	8	01MAR22 A	08MAR22 A		
B4-2260	Installation of Geotextile Filter	2	22FEB22 A	23FEB22 A		
B4-2300	Backfilling behind Concrete Backing & Coping	13	24FFB22 A	12MAR22 A		

Act		Orig	Early	Early	Tot	2020						2021										2022								2023		
ID	Description	Dur	Start	Finish	Flo		JAN	FEB	MAR	APR M	AY JU	JN JUL	AUG	SEP	ОСТ	NOV DE	JAN	FEB	MAR	APR N	IAY JI	UN JL	JL AU	G SEP	ОСТ	NOV	DEC JA	N FEB	MAR	APR MA	/ JUN	JUL AUG
B4-2400	Installation of Enhanced Seawall Panels	14	05SEP22	18SEP22	22	4d																		+								3
B4-2500	Laying of Concrete Paving	0	13MAR22 A	13MAR22 A	\														-													
B4-2600	Vacation of Site Area	3	20MAR22 A	22MAR22 A															4													
Completion and	Handover																														THE STATE OF THE S	
Sectional Con	npletion																															
C1-1000	Completion of Section 1 of the Works	0		25JUL23	-8	6d																										
C1-1010	Completion of Section 2 of the Works	0		01MAY23	-	1d																								-		
C1-1020	Completion of Section 3 of the Works	0		22MAR22 A	\														4													
Final Complet	ion																														Jiii	
C1-2000	Final Survey & Submission of As-built Records	28	28JUN23	25JUL23	-8	6d																									-11111	
C1-2100	Handover of the Works to the Employer	0		25JUL23	-8	6d																										
C1-2200	Completion of Whole of the Works	0		25JUL23	-8	6d																										₩

Start date 15DEC20

Must finish date 30APR23

© Primavera Systems, Inc.

REVISED PROGRAMME

	Early bar	
	Progress bar	
	Critical bar	ļ
♦	Start milestone point	
\rightarrow	Finish milestone point	

١	Date	Revision	Checked	Approved
	28JUN22		ZYW	TSL
- [

SS J521 SSJ521- Short Term Program for Completion

		Items	oustanding	day	Completed date
1	concrete works	viewing platform and its kerb	√	14	8/8/2022
		concrete ramp to beach	√	12	15/8/2022
		backfill and modify beach profile	√	7	30/8/2022
2	metal works	all structural steel works	V	30	23/8/2022
		all balustrades	√	21	13/8/2022
		alu panel	√	21	23/8/2022
		garden handrails	√	14	10/8/2022
		painting touch up	V	10	23/8/2022
3	finishes	viewing platform - grano	√	14	18/8/2022
		viewing platform - floor tiling	\checkmark	40	26/8/20225
		garden - grano	√	14	18/8/2022
		meter room painting	V	4	5/8/2022
4	drainage	all ug manhole and duct	√	10	5/8/2022
	urumug•	channel cover	√	7	16/8/2022
		matching cover	√	7	16/8/2022
5	equipment	braille map	√	150	Dec-22
	• •	garden signage	√	30	16/8/2022
		playground equipment	√	7	10/8/2022
		pergola top	√	14	10/8/2022
		safety mat	√	7	19/8/2022
6	landscape	outside site boundary	√	7	12/8/2022
		within site boundary	√	7	19/8/2022
7	BS installation	wind turbine installation	√	10	12/8/2022
		all lighting	√	14	19/8/2022
		all plumbing	√	14	19/8/2022
8	clearance	water barrier removal	√	3	6/9/2022
		concrete hoarding removal	√	7	9/9/2022





Appendix B Summary of Implementation Status of Environmental Mitigation

Appendix B IMPLEMENTATION SCHEDULE OF THE PROPOSED MITIGATION MEASURES

 Table B.1
 Implementation Schedule for Air Quality Mitigation Measures

EIA Ref.	Environmental Protection Measures /	Location / Timing	Implementation	Imple S	ment tages		Relevant Legislation and
	Mitigation Measures		Agent	Des	С	0	Guidelines
S3.7.1.1	Sufficient dust suppression measures as stipulated under the Air Pollution Control (Construction Dust) Regulation (Cap 311R) and good site practices should be properly implemented in order to minimise the construction dust generated. The measures include the followings: • Use of regular watering, to reduce dust emissions from exposed site surfaces and unpaved roads particularly during dry weather; • Use of frequent watering of particular dusty construction areas close to ASRs; • Side enclosure and covering of any aggregate or dusty material storage piles to reduce emissions. Where this is not practicable owing to frequent usage, watering should be applied to aggregate fines; • Open temporary stockpiles should be avoided or covered. Prevent placing dusty material storage plies near ASRs; • Tarpaulin covering of all dusty vehicle loads transported to, from and between site locations; • Establishment and use of vehicle wheel and body washing facilities at the exit point of the site; • Imposition of speed control for vehicles on unpaved site roads. 8 km/hr is the recommended limit; • Routing of vehicles and positioning of construction plant should be at the maximum possible distance from ASRs.	Works sites / throughout the construction period	Contractor				 ◆ Air Pollution Control (Amendment) Ordinance 2013 (APCO) (Cap 311) ◆ Technical Memorandum on the Environmental Impact Assessment Process (EIAO- TM) ◆ Air Pollution Control (Construction Dust) Regulation (Cap 311R) ◆ Air Pollution Control (Non- road Mobile Machinery) (Emission) Regulation.

EIA Ref.	Environmental Protection Measures /	Location / Timing	Implementation	Imple Si	ment tages		Relevant Legislation and
	Mitigation Measures		Agent	Des	С	0	Guidelines
S3.7.1.2	Guidelines stipulated in EPD's Recommended Pollution Control Clauses for Construction Contracts should also be incorporated in the contract documents to abate dust impacts. The clauses include: • The Contractor shall observe and comply with the Air Pollution Control Ordinance and its subsidiary regulations, particularly the Air Pollution Control (Open Burning) Regulation, Air Pollution Control (Construction Dust) Regulation and Air Pollution (Smoke) Regulation. • The Contractor shall undertake at all times to prevent dust nuisance and smoke as a result of the construction activities. • The Contractor shall ensure that there will be adequate water supply / storage for dust suppression. • The Contractor shall devise, arrange methods of working and carrying out the works in such a manner so as to minimise dust impacts on the surrounding environment, and shall provide experienced personnel with suitable training to ensure that these methods are implemented. • Before the commencement of any work, the Contractor may require to submit the methods of working, plant, equipment and air pollution control system to be used on the site for the Engineer inspection and approval.		Contractor		V		◆ EPD's Recommended Pollution Control Clauses for Construction Contracts

EIA Ref.	Environmental Protection Measures /	Location / Timing	Implementation	Imple St	ment tages		Relevant Legislation and
	Mitigation Measures		Agent	Des	С	0	Guidelines
S3.7.3.1	Loading of the dredged sediment to the barge should be controlled to avoid splashing and overflowing of the sediment slurry to the surrounding water. Any dredged sediment should be stored in enclosed tanks or properly covered as far as practicable to minimise its exposed area during its temporary storage and should be placed as far away from the identified ASRs as practically possible. Dredging rate should be controlled carefully. The dredged sediment will be delivered off-site for disposal every day to avoid storing at the barge overnight. Dredged sediment placed on marine vessel for disposal should also be properly covered during transportation. Dredging activities should be conducted during non-summer season as far as possible.	dredging, handling of dredged materials	Contractor		√	√	 ◆ APCO ◆ EIAO-TM ◆ Air Pollution Control (Construction Dust) Regulation (Cap 311R) ◆ Air Pollution Control (Nonroad Mobile Machinery) (Emission) Regulation.

^{*} Des - Design, C - Construction, O - Operation

 Table B.2
 Implementation Schedule for Noise Mitigation Measures

EIA Ref.	Environmental Protection Measures /	Location / Timing	Implementation	Imple St	ment tages		Relevant Legislation and
	Mitigation Measures		Agent	Des	С	0	Guidelines
S4.8.1.3	 Good Site Practice Only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction program; Silencers or mufflers on construction equipment should be utilised and should be properly maintained during the construction program; Mobile plant, if any, should be sited as far from NSRs as possible; Machines and plant (such as trucks) that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum; and Plant known to emit noise strongly in one direction should, wherever possible, be orientated so that the noise is directed away from the nearby NSRs. 		Contractor		~		 Noise Control Ordinance (NCO) EIAO-TM Technical Memorandum on Noise from Construction Work other than Percussive Piling (GW-TM) Recommended Pollution Control Clauses for Construction Contracts
S4.8.1.4	The "Recommended Pollution Control Clauses for Construction Contracts" published by the EPD should be adopted in the Contract Specification for the Contractors to follow and implement relevant measures and good site practices in minimising noise impact.	Works sites / during construction stage	Contractor		V		Ditto

EIA Ref.	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*			Relevant Legislation and
				Des	С	0	Guidelines
S4.8.1.5, S4.8.1.6 & Table 4.5	Quiet Powered Mechanical Equipment Use of quiet plant which should be made reference to the Powered Mechanical Equipment (PME) listed in the Technical Memorandum or the Quality Powered Mechanical Equipment (QPME) / other commonly used PME listed in Environmental Protection Department (EPD) web pages as far as possible which includes the Sound Power Level (SWLs) for specific quiet PME.	Work sites /during construction stage	Contractor		٧		Ditto
S4.8.1.7 & S4.8.1.8	Noise Barriers and Noise Enclosure The Contractor will be responsible for design of the movable noise barrier with due consideration given to the size of the PME and the requirement of intercepting the line of sight between the NSRs and PME. The movable noise barrier should have a minimum surface density of 10 kg/m² and it should have no openings or gaps. Portable noise enclosure should be used, as far as practicable, to mitigate the noise impacts arising from the use of handheld breaker, air compressor, compactor (vibratory) and drill/grinder, hand-held electric at some work areas (i.e. works areas LP3, LP4, LP5 and ST) where locate very close to the NSRs.	Work sites /during construction stage	Contractor		~		Ditto

APP B - 5

EIA Ref.	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Imple S	menta tages		Relevant Legislation and
				Des	С	0	Guidelines
S4.8.1.10	The streetscape improvement works should not be carried out within 10 m from Jockey Club Lei Yue Mun Plus (LYMP) during the time when LYMP is used for any noise sensitive purposes, such as holding courses or workshops. In addition, the beautification works at work areas LP1 should not be conducted during examination period. The Contractor should liaise with the operator of LYMP to obtain the updated schedule of courses, workshops and examination at the time of conducting the relevant construction works.	Work sites /during construction stage	Contractor		V		Ditto
S4.8.2.6	Since conducting sewerage construction works and streetscape improvement works may involve repeated construction works at the same location, the ArchSD would closely liaise with DSD and their contractors in planning the interfacing works to minimise duplicated/concurrent construction works, including exploring the possibility of entrusting the streetscape improvement works to DSD, so as to minimise nuisance to nearby sensitive receivers such as residents, shops, restaurants and educational institution as far as practicable.	Work sites / during construction stage	Project Proponent / Contractor		V		Ditto
	Before commencing noisy construction works, such as road breaking works, in the vicinity of the NSRs, the Contractor would closely liaise with the affected NSRs to keep them informed of the works and should strive to complete the works in the shortest time possible. To minimise nuisance to nearby educational institution and seafood restaurants, noisy construction works would not						

APP B - 6

EIA Ref.	Environmental Protection Measures /	Environmental Protection Measures / Mitigation Measures Location / Timing Agent	· -	Implementation Stages*			Relevant Legislation and
	Mitigation Measures		Des	С	0	Guidelines	
	be carried out during the examination period of the educational institution and the peak business hour of the restaurant.						

^{*} Des - Design, C - Construction, O - Operation

 Table B.3
 Implementation Schedule for Water Quality Mitigation Measures

EIA Ref.	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*			Relevant Legislation and
				Des	С	0	Guidelines
S5.7.1.1 & S5.7.2.13	The dredging operation would be properly scheduled such that no dredging works will be carried out during the period of the Annual Cross Harbour Swim Race to be held.	Works sites / during dredging in construction and operation stages	Contractor for dredging		V	V	N/A
S5.8.1.1	 Good Site Practices for Dredging All vessels should be sized so that adequate clearance is maintained between vessels and the seabed in all tide conditions, to ensure that undue turbidity is not generated by turbulence from vessels movement or propeller wash; All barges / dredgers should be fitted with tight fitting seals to their bottom openings to prevent leakage of material; Excess material shall be cleaned from the decks and exposed fittings of barges and hopper dredgers before the vessel is moved; Construction activities should not cause foam, oil, grease, scum, litter or other objectionable matter to be present on the water within the site or dumping grounds; Construction activities should not be filled to a level that will cause the overflow of materials or polluted water during loading or transportation. 	Works sites / during dredging in construction and operation stages	Contractor for Dredging		V	V	 EIAO-TM EIAO WPCO Waste Disposal Ordinance (WDO) Technical Memorandum on Standards for Effluents Discharged into Drainage and Sewerage Systems, Inland and Coastal Waters (TM-DSS)

EIA Ref.	Environmental Protection Measures /	Location / Timing	Implementation	_	ement Stages		Relevant Legislation and
	Mitigation Measures	3	Agent	Des	С	0	Guidelines
S5.8.1.2	Only one closed grab should be used any time for the dredging works during both capital and maintenance dredging to minimise release of sediment and other contaminants.	Works sites / during dredging in construction and operation stages	Contractor for dredging		V	٨	◆ Technical Memorandum on the Environmental Impact Assessment Process (EIAO- TM) ◆ Water Pollution Control Ordinance (WPCO)
S5.8.1.2	The dredging rate shall not exceed 100 m ³ per hour with a maximum working period of 12 hours per day throughout the construction phase and operation phase.	Works sites / during dredging in the construction and operation stages	Contractor for dredging		V	V	◆ EIAO-TM ◆ WPCO
S5.8.1.3	Silt curtains should be deployed enclosing the dredging, filling operation and seawall modification works. Under Section 10.6.31 of the Contaminated Spoil Management Study Final Report, silt curtains are defined as screens that extend over the full water depth in the dredging area to confine most of the suspended sediments. This is equivalent to the silt curtains to be adopted for the dredging, filling and seawall modification works in LYM waterfront, which involve the use of impervious sheets or filter fabrics extending over the full water depth. Regular inspection on the silt curtain condition by the contractor should be carried out to ensure the silt curtains are deployed properly and to maintain the performance of the silt curtains throughout the construction period.	Works sites / during dredging, filling operation and seawall modification in construction stage and maintenance dredging in operation stage	Contractor for dredging and seawall modification works		√	٨	◆ EIAO-TM ◆ WPCO

EIA Ref.	Environmental Protection Measures /	Location / Timing	Implementation	-	ement Stages		Relevant Legislation and
	Mitigation Measures		Agent	Des	С	0	Guidelines
S5.8.1.5	Seawall modification works should be undertaken during low tide, when the water level is low.	Lookout point 1, 5 and viewing platform / during construction stage	Contractor for seawall modification works		V		◆ EIAO-TM ◆ WPCO
S5.8.2.1 – S5.8.2.2	Control of potential water quality impact arising from the general construction works shall be achieved based on the following principles: • Minimisation of surface run-off; • Prevention or minimisation of the likelihood of the identified pollutants being in contact with rain or run-off or adjacent marine waters; and • Measures to abate pollutants at source. The Contractor shall apply for a discharge license under the WPCO and the discharge shall comply with the terms and conditions of the license. The Contractor shall also devise an Emergency Contingency Plan for accidental leakage or spillage of chemicals during construction phase and maintenance dredging. It should detail the communication line between Contractor, relevant government and stakeholders, remediation plan for containing and cleaning of leakage, evaluation and improvement work and determine follow-up action, such as monitoring.	Works sites / during construction stage and maintenance dredging in operation stage	Contractor		~	V	◆ EIAO-TM ◆ WPCO
S5.8.2.3	 Site Runoff and General Activities High loading of SS in site run-off should be prevented through proper site management by the contractor; Sand and silt removal facilities, channels and manholes should be maintained and the deposited silt and grit should be removed regularly by the 	All works sites / during construction stage	Contractor		V		 ◆ ProPECCPN 1/94 Construction Site Drainage ◆ WPCO

EIA Ref.	Environmental Protection Measures /	Location / Timing	Implementation	_	ement Stages		Relevant Legislation and
	Mitigation Measures		Agent	Des	С	0	Guidelines
	contractor, and at the onset of and after each rainstorm to ensure that these facilities are functioning properly;						
	The drilling operation can be fully controlled by the workers, the volume of sediment laden water and the material stockpiled in the temporary storage steel tank can be anticipated such that spillage can be prevented. The tank should be kept within the temporary working platform with surrounding concrete bund walls. The tanks should be removed to other site area located far away from the river immediately after filling up and within the same day.						
	 immediately after filling up and within the same day; Stockpiles should be located away from any watercourses and the seafront; Plant workshop / maintenance areas should be bunded on a hard standing. Sediment traps and oil interceptors should be provided at appropriate locations; 						
	 Works should be programmed to minimise soil excavation works where practicable during the rainy days; Vehicle wheel washing facilities should be provided at the site exit such that mud, debris, etc. attached to the vehicle wheels or body can be washed off before the vehicle leaves the work site; 						
	Section of the road between the wheel washing bay and the public road will be paved to reduce vehicle tracking of soil and to prevent site run-off from entering public road drains; and						
	Sufficient chemical toilets should be provided in the works areas in the proximity of the riverside for the sewage generated by the workforce. A licensed waste collector should be deployed to clean the						

EIA Ref.	Environmental Protection Measures /	Location / Liming '	Implementation	_	ement Stages		Relevant Legislation and
	Mitigation Measures		Agent	Des	С	0	Guidelines
	chemical toilets on a regular basis. Any sewage or wastewater discharge into the surrounding environment should not be allowed. Any chemical toilets should be located away from the river.						
S5.8.3.2 & S5.8.3.3	 Design Measures Exposed surface shall be avoided within the proposed development to minimise soil erosion. Development site shall be either hard paved or covered by landscaping area where appropriate to reduce soil erosion. The existing marine water in adjacent to the Project sites will be retained to maintain the original flow path. The drainage system will be designed to avoid any case of flooding based on the 1 in 50 year return period. 	Works sites / during operation stage	Project Proponent / Operator	٧		٧	◆ EIAO-TM ◆ WPCO ◆ WDO
S5.8.3.4 to S5.8.3.6	 Devices / Facilities to Control Pollution Screening facilities such as standard gully grating and trash grille, with spacing which is capable of screening off large substances such as fallen leaves and rubbish should be provided at the inlet of drainage system. Road gullies with standard design and silt traps and oil interceptors should be incorporated during the detailed design to remove particles present in storm water runoff. Subject to detailed design, standard manholes with desilting opening / sand trap designed for first flush flow (capable of providing at least 5 minutes' 	Works sites/ during operation stage	Project Proponent / Operator	1		٧	◆ EIAO-TM ◆ WPCO ◆ WDO
	Subject to detailed design, standard manholes with desilting opening / sand trap designed for first flush						

EIA Ref.	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*			Relevant Legislation and
				Des	С	0	Guidelines
	The feasibility of alternative measure such as Vortex grit separator would also be considered during the detailed design stage.						
\$5.8.3.7 to \$5.8.3.8	 Administrative Measures Good management measures such as regular cleaning and sweeping of road surface / open areas is suggested. The road surface / open area cleaning should also be carried out prior to occurrence of rainstorm. Manholes, as well as storm water gullies, ditches provided among the development areas should be regularly inspected and cleaned (e.g. monthly). Additional inspection and cleansing should be carried out before forecast heavy rainfall. 	Works sites/ during operation stage	The Operator			√	◆ EIAO-TM ◆ WPCO

^{*} Des - Design, C - Construction, O - Operation

Table B.4 Implementation Schedule for Sewerage and Sewage Mitigation Measures

EIA Ref.	Environmental Protection Measures /	Location / Timing	Implementation	Implementation Stages*			Relevant Legislation and
	Mitigation Measures		Agent	Des	С	0	Guidelines
6.5.1.6	The Project Proponent should closely coordinate with DSD in monitoring the programme and liaise with DSD to formulate mitigation measures including but not limit to installation of chemical toilets near the restaurants to cater for the additional sewage arising from the increased tourist after commencement of the Lei Yue Mun Waterfront Enhancement project and before the commissioning of the proposed sewerage works under DSD project should any programme gap is identified in the future.		Project Proponent / Operator			٧	◆ EIAO-TM

^{*} Des - Design, C - Construction, O - Operation

 Table B.5
 Implementation Schedule for Waste Management Measures

EIA Ref.	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*			Relevant Legislation and	
				Des	С	0	Guidelines	
S7.7.2.1 – S7.7.2.2	 Waste Management Hierarchy The waste management hierarchy should be applied: Avoidance and minimisation of waste generation; Reuse of materials as far as practicable; Recovery and recycling of residual materials where possible; and Treatment and disposal of waste according to relevant laws, guidelines and good practices 	Works sites/ during design and construction stages	Project Proponent/ Contractor	٧	٧		◆ EIAO-TM ◆ ETWB TCW No. 19/2005	
	Recommendations of good site practices and waste reduction measures should be stated in order to achieve avoidance and minimisation of waste generation in the waste management hierarchy. An Environmental Management Plan (EMP) and trip-ticket system are recommended for monitoring management of waste. Specific measures targeting the mitigation of impacts in works areas and the transportation of waste off-site should be provided to minimise the potential impacts to the surrounding environment.							
S7.7.3.1	 Good Site Practices 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. Training of site personnel in proper waste management and chemical wastes handling 	Works sites/ during design and construction stages	Project Proponent/ Contractor	√	٧		◆ EIAO-TM ◆ ETWB TCW No. 19/2005	

EIA Ref.	Environmental Protection Measures /	Location / Timing	Implementation	Imple S	ment tages		Relevant Legislation and
	Mitigation Measures	•	Agent	Des	С	0	Guidelines
	 Provision of sufficient waste disposal points and regular collection for disposal. Adoption of appropriate measures to minimise windblown litter and dust during handling, transportation and disposal of waste. Preparation of a WMP in accordance with the ETWB TCW No. 19/2005 Environmental Management on Construction Sites and submitted it to the Engineer for approval. 						
S7.7.4.1	 Waste Reduction Measures Segregate and store different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal. Adopt proper storage and site practices to minimise the potential for damage to, and contamination of, construction materials. Plan the delivery and stock of construction materials carefully to minimise the amount of waste generated; Sort out demolition debris and excavated materials from demolition works to recover reusable / recyclable portions (i.e. soil, rock, broken concrete, etc.). Maximise the use of reusable steel formwork to reduce the amount of C&D materials. Minimise over ordering of concrete, mortars and cement grout by doing careful check before ordering. Adopt pre-cast construction method instead of castin-situ method for construction of concrete structure as far as possible. 	Works sites / during design and construction stages	Project Proponent/ Contractor	V	V		◆ EIAO-TM ◆ WDO

EIA Ref.	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Imple S	ment tages		Relevant Legislation and Guidelines
			Agent	Des	С	0	
\$7.7.5.1 - 7.7.5.2	 Storage, Collection and Transportation of Waste Waste, such as soil, should be handled and stored well to ensure secure containment, thus minimising the potential of pollution; Maintain and clean storage areas routinely; Stockpiling area should be provided with covers and water spraying system to prevent materials from being wind-blown or washed away; and Different locations should be designated to stockpile each materials to enhance reuse. Waste hauler with appropriate permits should be employed by the Contractor for the collection and transportation of waste from works areas to respective disposal outlets. The following recommendation should be implemented to minimise the impacts: Remove waste in timely manner. Employ the trucks with cover or enclosed containers for waste transportation. Obtain relevant waste disposal permits from the appropriate authorities. Dispose of waste at licensed waste disposal facilities. 		Contractor		~		◆ EIAO-TM ◆ WDO

EIA Ref.	Environmental Protection Measures /	Location / Timing	Implementation	_			Relevant Legislation and
	Mitigation Measures		Agent	Des	С	0	Guidelines
\$7.7.6.1 – 7.7.6.10 & \$7.7.13.1	 Dredged Marine Sediments The sediment should be dredged, handled, transported and disposed of in a manner that would minimise adverse environmental impacts. Requirements of the Air Pollution Ordinance (Construction Dust) Regulation, where relevant, shall be adhered to during dredging, transportation and disposal of the sediment. To minimise the exposure to contaminated materials, workers shall, if necessary, wear appropriate personal protective equipment (PPE) when handling contaminated sediments. Adequate washing and cleaning facilities shall also be provided on site. For off-site disposal, the basic requirements and procedures specified under ETWB TCW No. 34/2002 shall be followed. The rationale for sediment removal/disposal should be submitted to MFC/CEDD for agreement. For site allocation and application of marine dumping permit, separate Sediment Sampling and Testing Plan (SSTP) may need to be submitted to EPD for 	Works sites / during dredging, handling, transportation and disposal of sediment in construction stage and maintenance dredging in operation stages	Project Proponent / Contractor	Des	C √	∀	◆ DASO ◆ ETWB TCW No. 34/2002 ◆ APCO ◆ WPCO
	agreement under the Dumping at Sea Ordinance (DASO). Additional SI works, based on the SSTP, may need to be carried out in order to confirm the disposal arrangements of the dredged sediment. A Sediment Quality Report (SQR), reporting the chemical and biological screening results and the estimated quantities of sediment under different disposal options, may then need to be submitted to EPD for agreement under DASO.						

FIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	I Deation / Liming I	cation / Timing Implementation		ment tages		Relevant Legislation and
			Agent	Des	С	0	Guidelines	
	 To ensure disposal space is allocated for the Project, the Project Proponent should be responsible for obtaining agreement from MFC on the allocation of the disposal site. The contractor(s), on the other hand, should be responsible for the application of the marine dumping permit under DASO from EPD for the sediment disposal. The dredged sediments are expected to be loaded onto the barge and transported to the designated disposal sites allocated by MFC. The dredged sediment would be disposed of according to its determined disposal options and ETWB TCW No. 34/2002. Stockpiling of contaminated sediments should be avoided as far as possible. If temporary stockpiling of contaminated sediments is necessary, the dredged sediment should be covered by tarpaulin and the area should be placed within earth bunds or sand bags to prevent leachate from entering the ground, nearby drains and surrounding water bodies. The stockpiling areas should be completely paved or covered by linings in order to avoid contamination to underlying soil or groundwater. Separate and clearly defined areas should be provided for stockpiling of contaminated and uncontaminated materials. Leachate, if any, should be collected and discharged according to the Water Pollution Control Ordinance (WPCO). 							

APP B - 19

EIA Ref.	Environmental Protection Measures /	Location / Timing	Implementation	Imple S	ment tages		Relevant Legislation and
	Mitigation Measures		Agent	Des	С	0	Guidelines
	 In order to minimise the potential odour / dust emissions during dredging and transportation of the sediment, the dredged sediments shall be wetted during dredging / material handling and shall be properly covered when placed on trucks or barges. Loading of the dredged sediment to the barge shall be controlled to avoid splashing and overflowing of the sediment slurry to the surrounding water. The barge transporting the sediments to the designated disposal sites shall be equipped with tight fitting seals to prevent leakage and shall not be filled to a level that would cause overflow of materials or laden water during loading or transportation. In addition, 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 selfmonitoring devices as specified under DASO authority. 						
S7.7.7.1 – 7.7.7.4	 Construction and Demolition (C&D) Materials Implement a trip-ticket system to monitor and document the disposal of C&D waste C&D materials generated from dredging, lookout points excavation works, and landing facility and carpshaped platform construction works should be segregated from other waste to avoid contamination and ensure acceptability at the public fill reception facilities or reclamation sites. C&D materials should be sorted on-site into inert and non-inert materials. 	Works sites / during construction stage	Contractor		√ V		 ♦ WDO ♦ DEVB TCW No. 06/2010 ♦ ETWB TCW 33/2002 ♦ ETWB TCW 19/2005

EIA Ref.	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Implementation Stages*			Relevant Legislation and
			Agent	Des	С	0	Guidelines
	 Non-inert C&D waste, such as wood, plastic, steel and other metals should be reused or recycled and, as a last resort, disposed to landfill. A suitable area should be designated within the site for temporary stockpiling of C&D materials and to facilitate the sorting process. Within the stock pile areas, the following measures should be taken to control potential environmental impacts or nuisance: Waste such as soil should be handled and stored well to ensure secure containment; Covering materials during heavy rainfall; Stockpiling area should be provided with covers and water spraying system to prevent materials from wind-blown or being washed away; Locating stockpiles to minimise potential visual impacts; and Minimising land intake of stockpile area as far as possible. A system should be devised for on-site sorting of C&D materials. This system should include the identification of the source of generation, estimated quantity of waste generated, arrangement for on-site sorting and / or collection, designated stockpiling areas, frequency of collection by recycling contractors and frequency of removal off-site. All dusty materials should be sprayed with water prior to any loading, unloading or transfer operation so as to maintain the dusty materials wet. 						

EIA Ref.	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation	Implementation Stages*			Relevant Legislation and
			Agent	Des	С	0	Guidelines
S7.7.8.1	 Chemical Waste If chemical waste is produced at the construction site, the Contractor will be required to register with the EPD as a chemical waste producer and to follow the guidelines stated in the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. Chemical waste should be stored in appropriate containers and collected by a licensed chemical waste collector. Chemical waste (e.g. spent lubricant oil) should be disposed of at either the CWTC, or another licensed facility, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation. 	Works sites / during construction stage	Contractor		V		 ◆ WDO ◆ Code of Practice on the Packaging, Labelling and Storage of Chemical Waste ◆ A Guide to the Chemical Waste Control Scheme
S7.7.9.1 & S7.7.11.1	 General Refuse General refuse should be stored in enclosed bins separately from construction and chemical waste. Recycling bins should also be placed to encourage recycling. Enclosed and covered areas should be provided preferably for general refuse collection. Routine cleaning should be also be provided to keep the areas clean. A reputable waste collector should be employed to remove general refuse on a daily basis 	Works sites / during construction and operation stages	Project Proponent / Contractor		V	V	♦ WDO
\$7.7.10.1 & \$7.7.10.2	 Floating Refuse Floating refuse should be collected and removed at regular intervals on a daily basis to keep water within the site boundary and the neighbouring water free from rubbish. In case of floating refuse is identified, a waste 	Works sites / during construction stage	Contractor		V		♦ WDO

EIA Ref.	Environmental Protection Measures /	Location / Timing	Implementation	Implementation Stages*			Relevant Legislation and
	Mitigation Measures		Agent	Des	С	0	Guidelines
	collection vessel is needed to remove the floating materials and eventually store and dispose of together with the general refuse, after separating the recyclables for recycling, at North East New Territories Landfill (NENT) via Kwun Tong Road and Fanling Highway. • Provision of general refuse bins on site and education programme to construction workforce to minimise the potential of marine contamination.						
S7.7.12.1	 Sufficient general refuse and recycling bins should be provided respectively. Meanwhile, the general refuse collection areas should be enclosed and covered properly to avoid potential losses of waste to the adjacent watercourses. 	Project site / during operation stage	Project Proponent			V	♦ WDO
S7.7.12.2	 Refuse scavenging and collection service will be provided by the Contractor of Marine Department (MD) under existing Contract. 	Project site / during operation stage	MD			1	♦ WDO

^{*} Des - Design, C - Construction, O - Operation

Table B.6 Implementation Schedule for Land Contamination Mitigation Measures

EIA Ref.		Environmental Protection Measures /	Location /	Implementation		Implementation Stages*		Relevant Legislation and
		Mitigation Measures	Timing	Agent	Des	С	0	Guidelines
S8.7.1.1	•	No mitigation measure is required.	N/A	N/A				N/A

 Table B.7
 Implementation Schedule for Ecology Mitigation Measures

EIA Ref.	Environmental Protection Measures / Mitigation Measures	Location /	Implementation	Implementation Stages*			Relevant Legislation and
		Timing	Agent	Des	С	0	Guidelines
S9.8.1.2	 Avoidance Avoided encroaching on recognized sites of conservation importance (i.e. the CPA comprising the oyster shell beach, rocky outcrop with the lighthouse to the south of LYM Village). Avoided direct impact on area with relatively higher abundance of coral colonies (i.e. REA 2). Avoided direct impact on natural terrestrial habitats, (e.g. mixed woodland, natural watercourses) and associated fauna and flora. 	Works sites / during design, construction and operation stages	Project Proponent	V	V	V	◆ EIAO-TM
S9.8.1.3 – S9.8.1.4	 Minimisation of Direct Loss of Coral A detailed coral mapping should be undertaken before the commencement of the works A detailed Coral Mitigation Plan should be prepared prior to the implementation of mitigation measures. Suitable recipient site(s) should be identified. Description of methodology including translocation (e.g. pre-translocation survey, identification / proposal of coral recipient site(s)) and/or other best practicable mitigation measures, and post-mitigation monitoring programme should be prepared with reference to recently approved EIA and subject to comment by the AFCD before commencement of the coral mitigation. All the coral mitigation exercises should be conducted by experienced marine ecologist(s) with at least 5 years relevant experience. 	Works sites / prior to construction stage	Contractor		V		◆ Cap. 586
S9.8.1.3	During operation phase, coral survey will be carried out to review and update the conditions of corals in the dredging area and its vicinity prior to each	Dredging area and its vicinity / prior to each	Contractor			V	◆ Cap. 586

EIA Ref.	Environmental Protection Measures /	Location /	Implementation	Imple S	ment tages		Relevant Legislation and
	Mitigation Measures	Des C O G		Guidelines			
	maintenance dredging. Subject to the findings of the coral survey, the impact on corals due to maintenance dredging will be reviewed and mitigation measures will be proposed as necessary.	dredging in operation stage					
S9.8.1.5	 Minimisation of Water Quality Impact Adoption of the mitigation measures recommended in water quality impact assessment during capital and maintenance dredging operations, including use of closed grab, restriction of dredging production rate (no more than 100m³ per hour) and deployment of silt curtains. 	Works site / during dredging operation in the construction and maintenance dredging stages	Contractors		√ 	V	◆ EIAO-TM ◆ WPCO ◆
S9.8.1.6	 To minimise the contamination of wastewater discharge, accidental chemical spillage and construction site run-off to the receiving water bodies, mitigation measures recommended in water quality impact assessment should be adopted to control construction site runoff and drainage form the work areas, and to prevent runoff and drainage water with high levels of suspended solids from entering the nearby local stormwater drainage system and water bodies directly. The mitigation measures include: The good site practices outlined in ProPECC PN 1/94 "Construction Site Drainage" should be strictly followed to minimise surface runoff. Surface run-off from construction sites should be discharged into storm drains via adequately designed sand / silt removal facilities such as sand traps, silt traps and sedimentation basins; Open stockpiles of construction materials (e.g. aggregates, sand and fill material) on sites should be covered with tarpaulin or similar fabric during 	Works site / during the construction stage	Contractors		V		◆ WPCO ◆ ProPECC PN 1/94

EIA Ref.	Environmental Protection Measures /	Location /	Implementation	Implementation Stages*			Relevant Legislation and
	Mitigation Measures	Timing	Agent	Des			Guidelines
S9.8.1.7	rainstorms; Good construction and site management practices should be observed to ensure that litter, fuels and solvents do no enter the storm water drains; and Chemical toilets should be provided within the construction site and properly maintained. All effluent discharged from the construction site should comply with the standards stipulated in the "Technical Memorandum on Standards for Effluents Discharged into Drainage and Sewerage Systems, Inland and Coastal Waters" (TM-DSS). Other Minimisation Measures To mitigate the impact of the loss, the proposed sloping seawall would be constructed with rock armours which would have spaces between rock armour units to allow intertidal organisms to grow. The new vertical seawall for the lookout points and viewing platform and the breakwater would also provide additional hard substrata for the recolonization of intertidal fauna and corals. Ecological features e.g. seawall enhanced with rough texture and irregular pattern would be incorporated into the design of vertical seawall as far as practicable. A submission on the detailed design of the ecological features to be adopted will be prepared subject to comment by the AFCD prior to the installation of the ecological features.	Works site / during the construction and operation stages	Project Proponent / Contractors		√	V	◆ EIAO-TM

^{*} Des - Design, C - Construction, O - Operation

 Table B.8
 Implementation Schedule for Fisheries Mitigation Measures

EIA Ref.	Environmental Protection Measures /	Location / Timing	Implementatio	Implementation Stages*			Relevant Legislation and
	Mitigation Measures		n Agent	Des	С	0	Guidelines
S10.7.1.3	 During the capital and maintenance dredging operations, mitigation measures (including use of closed grab, silt curtains and restriction of dredging rate to no more than 100m³ per hour) recommended in the water quality impact assessment would be implemented to control water quality impacts to within acceptable levels. These mitigation measures would also control and minimize the indirect impacts on fisheries resources due to deterioration in water quality as a result of both capital and maintenance dredging works. 	the construction and operation stages	Contractors		V	V	◆ EIAO-TM ◆ ProPECC PN 1/94 ◆ WPCO

^{*} Des - Design, C - Construction, O - Operation

Table B.9 Implementation Schedule for Landscape and Visual Impact Mitigation Measures

EIA Ref.		Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*			Relevant Legislation and Guidelines	
					Des	С	0		
Table	•	CM1 - All the existing Trees to be retained and not to	Works site / during	Project				♦ EIAO-TM	
11.10		be affected by the Project should be carefully	the design and	Proponent/				◆ DEVB TC (W)	
		protected during the construction phase in	construction stages	Contractors				No.7/2015	
		accordance with DEVB TCW No. 7/2015 titled "Tree						Guidelines on Tree	
		Preservation" and the latest "Guidelines on Tree						Preservation	
		Preservation during Development" issued by GLTM						during	
		Section of DEVB, including provision of Tree						Development	
		Protection Zones (TPZs). Any existing vegetation in							
		landscaped areas and natural terrain not to be							
		affected by the Project should also be carefully							
		preserved. Therefore, these existing landscape							
		elements can maintain their qualities throughout the							
		construction phase.							
	•	CM4 - Lighting for the construction works at night, if							
		any, should be carefully controlled to prevent light							
		overspill to the nearby VSRs and into the sky.							
	•	CM5 - Decorative Hoardings, with designs and forms							
		compatible with the surrounding settings, should be erected during the construction phase to minimise							
		the potential landscape and visual impacts from the							
		construction works and activities, e.g. avoiding							
		unintended destruction of existing trees and other							
		landscape elements, and reducing visual bulkiness of							
		the screen hoardings, etc.							
	•	CM6 - The layout and arrangement of construction							
		site facilities which include site office and temporary							
		storage area should be properly managed and							
		construction activities at the site should be carefully							
		supervised and controlled to minimise potential							

EIA Ref.		Environmental Protection Measures /	Location / Timing	Implementation	Implementation Stages*			Relevant Legislation and
		Mitigation Measures		Agent	Des	С	0	Guidelines
		adverse landscape and visual impacts.						
Table 11.10	•	CM7 - A buffer zone with a minimum distance of about 10m will be provided between the CPA and the boundary of dredging works to minimise the potential impact on the CPA arising from the dredging activities.	Works site / during the design construction and operation stages	Project Proponent/ Contractors	V	V	V	
Table 11.10	•	CM8 - Silt curtains will be deployed to enclose the dredging works to minimise the potential water quality impact (e.g. dispersion of suspended sediments) on the CPA. CM9 - The dredging works will be closely supervised by site staff to ensure no unauthorised works will be carried out within the CPA.	Works site / during the construction stage	Project Proponent/ Contractors		√ 		◆ EIAO-TM ◆ WPCO
Table 11.11	•	OM1 - A buffer zone with a minimum distance of about 10m will be provided between the CPA and the boundary of maintenance dredging works to minimise the potential impact on the CPA arising from the dredging activities. OM2 - Silt curtains will be deployed to enclose the maintenance dredging works to minimise the potential water quality impact (e.g. dispersion of suspended sediments) on the CPA. OM 3 - The maintenance dredging works will be closely supervised by site staff to ensure no unauthorised works will be carried out within the CPA.	Works site / during maintenance dredging in operation stage	Project Proponent/ Contractors			V	◆ EIAO-TM
Table 11.11	•	OM 4 - The Aboveground/Above-sea-level Structures/Hardscape Features of the Project, including the pavilion, the breakwater, and the promenade with public landing facility, etc. and elements of streetscape in regard to the layouts, forms, materials and finishes shall be sensitively	Works site / during the design and operation stages	Project Proponent/ Contractors	٧		V	◆ EIAO-TM

EIA Ref.	Environmental Protection Measures /	Location / Timing	Implementation	Implementation Stages*			Relevant Legislation and	
	Mitigation Measures designed, so that the structures/hardscape features can blend with the surrounding landscape and visual context, e.g. the pavilion should be visually permeable and its appearance and orientation should take into account the overall landscape master plan of the proposed enhancement works. The proposed colour and texture for the proposed breakwater and lookout points shall be visually compatible with the adjacent landscape elements.							
Table 11.11	can blend with the surrounding landscape and visual context, e.g. the pavilion should be visually permeable and its appearance and orientation should take into account the overall landscape master plan of the proposed enhancement works. The proposed colour and texture for the proposed breakwater and lookout points shall be visually compatible with the	Works site / during the operation stage	Project Proponent/ Contractors	Des		√	◆ EIAO-TM	
	 maximised within the Project, so that the proposed works will be more compatible and harmonious with the surroundings landscape- and visual-wise. OM7 - During the Operation Phase, all disturbed hard and soft landscape areas within temporary works sites and works areas caused by the proposed works shall have already been reinstated equal or better quality to the satisfaction of the relevant Government Departments, so as to maintain or improve the existing landscape and visual quality. 							

^{*} Des - Design, C - Construction, O - Operation





Appendix C Impact Monitoring Schedule of this and next Reporting Period

Contract No. CV/2020/09 Lei Yue Mun Waterfront Enhancement Project EM&A Monitoring Schedule

		Jul-22			
Mon	Tue	Wed	Thu	Fri	Sat
				1	2
					Impact Water Quality monitoring for C1, C2, M1, M2, M3 & Tidal Period: Ebb Tide: 10:00 - 18:00 Flood Tide: 03:00 - 10:00 Monitoring Time: Mid-ebb: 12:19 - 15:49^ Mid-flood: 08:00 - 09:39*\$^
	-	6	-		
	Impact Water Quality monitoring for C1, C2, M <u>Tidal Period:</u> Ebb Tide: 12:00 - 20:00 Flood Tide: 06:00 - 12:00 <u>Monitoring Time:</u> Mid-ebb: 14:15 - 17:45 Mid-flood: 08:00 - 10:45	0	Water Quality monitoring <u>Tida</u> Ebb Tide Flood Tide <u>Monitt</u> Mid-ebb: I	mpact Impact Impact Daytime Noise mor NM1, NM2-A, NN e 12 e 0.8:00 - 14:00 e 0.00 e 0	nitoring for Water Quality monitoring for C1, C2, M1, M2, M3 8
11	12	13	14	15	16
Impact Daytime Noise monitoring for NM1, NM2-A, NM3 & NM4	Impact Water Quality monitoring for C1, C2, M <u>Itidal Period:</u> Ebb Tide: 06:56 - 14:39 Flood Tide: 14:39 - 21:5 <u>Monitoring Time:</u> Mid-ebb: 09:02 - 12:32 Mid-flood: 15:00 - 18:30	6	Water Quality monitoring <u>Tida</u> Ebb Tide: Flood Tide <u>Monitt</u> Mid-ebb:	mpact for C1, C2, M1, M2, M3 & M4 al Period: 108:49 - 16:21 11:16:21 - 23:32 oring Time: 10:50 - 14:20 116:42 - 19:00&	Impact Water Quality monitoring for C1, C2, M1, M2, M3 & <u>Tidal Period:</u> Ebb Tide: 10:48 - 17:51 Flood Tide: 03:40 - 10:48 <u>Monitoring Time:</u> Mid-ebb: 12:34 - 16:04 Mid-flood: 08:00 - 10:26*\$
18	19	20	21	22	23
	Impact Water Quality monitoring for C1, C2, M <u>Tidal Period:</u> Ebb Tide: 13:29 - 19:40 Flood Tide: 06:24 - 13:2 <u>Monitoring Time:</u> Mid-ebb: 14:49 - 18:19 Mid-flood: 08:11 - 11:4:	9	Water Quality monitoring <u>Tida</u> Ebb Tide: Flood Tide <u>Monitt</u> Mid-ebb: 1	Impact Impact Impact Impact Impact Impact Impact Impact Impact Oct. C1, C2, M1, M2, M3 & M4 Impact I	nitoring for Water Quality monitoring for C1, C2, M1, M2, M3 &
25	26	27	28	29	30
	Impact Water Quality monitoring for C1, C2, M <u>Tidal Period:</u> Eb Tide: 07:21 - 15:00 Flood Tide: 15:00 - 22:0 <u>Monitoring Time:</u> Mid-ebb: 09:25 - 12:55 Mid-flood: 15:21 - 18:5	0	Water Quality monitoring <u>Tida</u> Ebb Tide: Flood Tide <u>Monite</u> Mid-ebb: Mid-flood: Daytime Nois	mpact (for C1, C2, M1, M2, M3 & M4 al Period: 08:22 - 16:00 2: 16:00 - 22:58 oring Time: 10:26 - 13:56 16:20 - 19:00& se monitoring for -A, NM3 & NM4	Impact Water Quality monitoring for C1, C2, M1, M2, M3 & Tidal Period: Ebb Tide: 09:40 - 17:05 Flood Tide: 03:00 - 09:40 Monitoring Time: Mid-ebb: 11:37 - 15:07 Mid-flood: 08:00 - 09:20*\$

Daytime Noise Monitoring (07:00-1900)

Monitoring Parameters: Dissolved oxygen, Temperature, pH, Turbidity, Salinity, Suspended Solids

Note:

^ Monitoring cancelled due to inclement weather.

* - Monitoring cancelled due to inclement weather.

* - Due to safety concern of vessel transportation earlier than 0800, Water Quality Monitoring would start at 0800.

\$ - Since predicted tide is shorter than 3.5 hours, method of 90% tidal period as monitoring time is adopted.

& - Due to safety concern for sampling event in night-time, method of 90% tidal period as monitoring time is annotated and end at 1900.

Contract No. CV/2020/09 Lei Yue Mun Waterfront Enhancement Project

			EM&A Monitoring Schedule			
			Aug-22			
Sun	Mon	Tue	Wed	Thu	Fri	Sat
	1	2	3	4	5	6
		Impact Water Quality monitoring for C1, C2, M1, M2, M3 & M4		Impact Water Quality monitoring for C1, C2, M1, M2, M3 & M4 <u>Tidal Period;</u> Ebb Tide: 13:00 - 20:00 Flood Tide: 07:00 - 13:00 <u>Monitoring Time:</u> Mid-ebb: 14:45 - 18:15 Mid-flood: 08:15 - 11:45	Impact Daytime Noise monitoring for NM1, NM2-A, NM3 & NM4	Impact Water Quality monitoring for C1, C2, M1, M2, M3 & M4 <u>Tidal Period:</u> Ebb Tide: 04:00 - 09:32 Flood Tide: 09:32 - 16:40 <u>Monitoring Time:</u> Mid-ebb: 08:00 - 09:15*\$ Mid-flood: 11:21 - 14:51
7	8	9	10	11	12	13
		Impact Water Quality monitoring for C1, C2, M1, M2, M3 & M4 <u>Tidal Period:</u> Ebb Tide: 05:43 - 14:00 Flood Tide: 14:00 - 21:00 <u>Monitoring Time:</u> Mid-ebb: 08:06 - 11:36 Mid-flood: 15:45 - 19:00		Impact Water Quality monitoring for C1, C2, M1, M2, M3 & M4 Tidal Period: Ebb Tide: 07:43 - 15:22 Flood Tide: 15:22 - 22:32 Monitoring Time: Mid-ebb: 09:47 - 13:17 Mid-flood: 15:43 - 19:00& Daytime Noise monitoring for NM1, NM2-A, NM3 & NM4		Impact Water Quality monitoring for C1, C2, M1, M2, M3 & M4 <u>Tidal Period:</u> Ebb Tide: 10:00 - 17:00 Flood Tide: 03:00 - 10:00 <u>Monitoring Time:</u> Mid-ebb: 11:45 - 15:15 Mid-flood: 08:00 - 09:39
14	15	16	17	18	19	20
		Impact Water Quality monitoring for C1, C2, M1, M2, M3 & M4 Tidal Period: Ebb Tide: 12:18 - 18:12 Flood Tide: 05:23 - 12:18 Monitoring Time: Mid-ebb: 13:30 - 17:00 Mid-flood: 08:00 - 10:35*\$		Impact Water Quality monitoring for C1, C2, M1, M2, M3 & M4 <u>Tidal Period:</u> Ebb Tide: 13:56 - 19:00 Flood Tide: 07:13 - 13:56 <u>Monitoring Time:</u> Mid-ebb: 14:43 - 18:13 Mid-flood: 08:49 - 12:19		Impact Water Quality monitoring for C1, C2, M1, M2, M3 & M4 Tidal Period; Ebb Tide: 04:00 - 10:53 Flood Tide: 10:53 - 23:59 Monitoring Time: Mid-ebb: 08:00 - 10:32*\$ Mid-flood: 15:41 - 19:00& Daytime Noise monitoring for NM1, NM2-A, NM3 & NM4
21	22	23	24	25	26	27
		Impact Water Quality monitoring for C1, C2, M1, M2, M3 & M4 Tidal Period: Ebb Tide: 06:00 - 14:06 Flood Tide: 14:06 - 21:00 Monitoring Time: Mid-ebb: 08:18 - 11:48 Mid-flood: 15:48 - 19:00&		Impact Water Quality monitoring for C1, C2, M1, M2, M3 & M4 <u>Tidal Period:</u> Ebb Tide: 07:20 - 15:09 Flood Tide: 15:09 - 22:00 <u>Monitoring Time:</u> Mid-ebb: 09:29 - 12:59 Mid-flood: 15:29 - 18:59	Impact Daytime Noise monitoring for NM1, NM2-A, NM3 & NM4	Impact Water Quality monitoring for C1, C2, M1, M2, M3 & M4 Tidal Period: Ebb Tide: 08:50 - 16:02 Flood Tide: 16:02 - 22:37 Monitoring Time: Mid-ebb: 10:41 - 14:11 Mid-flood: 16:21 - 19:00&
28	29	30	31			
Remarks:		Impact Water Quality monitoring for C1, C2, M1, M2, M3 & M4 <u>Tidal Period:</u> Ebb Tide: 11:07 - 17:17 Flood Tide: 04:18 - 11:07 <u>Monitoring Time:</u> Mid-ebb: 12:27 - 15:57 Mid-flood: 08:00 - 10:46*\$				

Remarks:
Daytime Noise Monitoring (07:00-1900)
Monitoring Parameters: Dissolved oxygen, Temperature, pH, Turbidity, Salinity, Suspended Solids

Note:

^- Monitoring cancelled due to inclement weather.

*- Due to safety concern of vessel transportation earlier than 0800, Water Quality Monitoring would start at 0800.

\$- Since predicted tide is shorter than 3.5 hours, method of 90% tidal period as monitoring time is adopted.

8- Due to safety concern for samoling event in night-time, method of 90% tidal period as monitoring time is approached and end at 1900.

Contract No. PI 2/2020 Environmental Monitoring Works for Lei Yue Mun Waterfront Enhancement Project 15th Monthly EM&A Report (July 2022)





Appendix D Event/Action Plan for Noise Exceedance





	ACTION									
EVENT	ET	IEC	ER	Contractor						
Action Level	Notify IEC, ER and Contractor; Carry out investigation; Report the results of investigation to the IEC, ER and Contractor; Discuss with the Contractor and formulate remedial measures; and Increase monitoring frequency to check mitigation effectiveness.	Review the analysed results submitted by the ET; Review the proposed remedial measures by the Contractor and advise the ER accordingly; and Supervise the implementation of remedial measures.	Confirm receipt of notification of failure in writing; Notify Contractor; Require Contractor to propose remedial measures for the analysed noise problem; and Ensure remedial measures are properly implemented.	Submit noise mitigation proposals to IEC, ET and ER; and Implement noise mitigation proposals.						
Lîmît Level	1. Identify source; 2. Inform IEC, ER, EPD and Contractor; 3. Repeat measurements to confirm findings; 4. Increase monitoring frequency; 5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; 6. Inform IEC, ER and EPD the causes and actions taken for the exceedances; 7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; and 8. If exceedance stops, cease additional monitoring.	Discuss amongst ER, ET, and Contractor on the potential remedial actions; Review Contractors remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; and Supervise the implementation of remedial measures.	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Require Contractor to propose remedial measures for the analysed noise problem; 4. Ensure remedial measures properly implemented; and 5. If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated.	1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC within 3 working days of notification; 3. Implement the agreed proposals; 4. Resubmit proposals if problem still not under control; and 5. Stop the relevant portion of works as determined by the ER until the exceedance is abated.						





Appendix E Noise Monitoring Equipment Calibration Certificate



CALIBRATION CERTIFICATE

Certificate Information

Date of Issue 7-Aug-2021 Certificate Number MLCN212053S

Customer Information

Company Name

Address

Acuity Sustainability Consulting Limited

Unit C, 11/F., Ford Glory Plaza, Nos. 37-39 Wing Hing Street, Cheung Sha Wan, Kowloon, HK

Equipment-under-Test (EUT)

Description

Acoustic Calibrator

Manufacturer

Pulsar

Model Number Serial Number 105 63705

Equipment Number

Calibration Particular

Date of Calibration

7-Aug-2021

Calibration Equipment | 4231(MLTE008) / AV200063 / 23-Jun-23

1357(MLTE190) / MLEC21/05/02 / 26-May-22

Calibration Procedure

MLCG00, MLCG15

Calibration Conditions

Laboratory Temperature

23 °C ± 5 °C

EUT

 $55\% \pm 25\%$

Stabilizing Time

Over 3 hours

Warm-up Time

Relative Humidity

Not applicable

Power Supply

Internal battery

Calibration Results

Calibration data were detailed in the continuation pages. All calibration results were within EUT specification.

Approved By & Date

16

K.O. Lo

7-Aug-2021

Statements

- Calibration equipment used for this calibration are traceable to national / international standards.
- * The results on this Calibration Certificate only relate to the values measured at the time of the calibration and the uncertainties quoted will not include allowance for the EUT long term drift, variation with environmental changes, vibration and shock during transportation, overloading, mishandling, misuse, and the capacity of any other laboratory to repeat the measurement.
- * MaxLab Calibration Centre Limited shall not be liable for any loss or damage resulting from the use of the EUT.
- * The copy of this Certificate is owned by MaxLab Calibration Centre Limited. No part of this Certificate may be reproduced without the prior written approval of MaxLab Calibration Centre Limited.

Page 1 of 2



Certificate No.

MLCN212053S

Calibration Data				
EUT Setting	Standard Reading	EUT Error from Setting	Calibration Uncertainty	EUT Specification
94 dB	93.9 dB	-0.1 dB	0.20 dB	± 0.2 dB

- END -

Calibrated By:

Keneth

Checked By:

K.O. Lo 7-Aug-21

Date:

7-Aug-21

Date:

Page 2 of 2



CERTIFICATE OF CALIBRATION

NO. 20210924246

Name of Product: Sound Level Meter Model: ST-11D Serial Number: 820259 Specification: Class 1 Conclusion: Pass Date of calibration: 2021-10-12 Due Date: 2022-10-11

Calibrated by:

5. Frequency weightings (Acoustic signal tests for Z weighting, other

4. Measuring up limit: 140 dBA

electric signal tests.)

- This report certifies that all calibration equipment used in the test is traceable with the internal ISO9001 procedures and meets all specification given in the Manual(s) or respectively surpass then, and applies only to the unit identified above.
- This certificate is produced with advanced equipment & procedures which permit comprehensive quality assurance verification of all data supplied herein. 11.
- This certificate of calibration shall not be reproduced except in full, without written permission of the Scarlet Tech Co Ltd Taiwan. III.
- 1. Preliminary inspection:
 - OK
- 2. Type & serial No. of Microphone: AWA14425-14994
- 3. Adjustments to indicated sound levels:
 - Type of Calibrator B&K 4231

 - Sound Pressure Level 94.0 dB
 - Equivalent Free-field Sound Level (reference environment conditions) 93.8 dB

Nominal	Fred	quency weighti	ng/dB	Nominal	Frequency weighting / dB				
frequency /Hz	А	С	Z	frequency /Hz	А	С	Z		
10	-71.2	-14.8	-0.7	1000	0.0	-0.1	-0.2		
20	-50.2	-6.2	-0.2	2000	1.2	-0.2	0.2		
31.5	-39.4	-2.9	0.0	4000	1.0	-0.9	0.3		
63	-26.3	-0.9	0.4	8000	-1.0	-3.2	-0.7		
125	-16.0	-0.3	0.1	12500	-5.9	-7.9	-1.3		
250	-8.6	-0.1	0.2	16000	-11.8	-13.8	-1.0		
500	-3.2	-0.1	0.2	20000	-23.9	-25.9	-1.2		

6. Self-generated noise

Microphone replaced by electrical input signal device

-	11.5 dB(A)	17.7 dB(C)	23.6 dB(Z)	
-	7 ESS Weighting			

7. F&S Weighting

Rate of the F weighting decrease (dB/s)	35.2
Rate of the S weighting decrease (dB/s)	4.4
Deviation of F&S	0.0

8. Level Linearity (A-weighting at frequency 1 kHz)

Reference sound level 90.0 dB

Max error at 10dB steps upper reference sound level $\underline{-0.1}$ dB

Max error at 1dB steps within 5dB of the upper limit linear operating range 0.0 dB

Max error at 10dB steps below reference sound level 0.1 dB

Max error at 1dB steps within 5dB upper the lower limit linear operating range 0.1 dB

9. Tone burst response (A Weighting):

Single Toneburst duration /ms		Toneburst re	esponse /dB	
Single Toneburst duration / his	LAFmax-LA	Lasmax-La	LAE-LA	LAegT-LA
500	0.0	-4.0	-2.9	-7.0
200	-1.0	-7.4	-6.9	-7.0
50	-18.1	-26.9	-26.9	-7.0
10	-27.0	1	-36.0	-7.0

10. Peak C sound level (500Hz):

Cycle	One cycle	nominal value	Positive half	nominal value	Negative half	nominal value
LCpeak-LC(dB)	3.5	3.5	2.3	2.4	2.3	2.4

11. Overload indication: Pass

12. Statistical analysis function

Sweep signal maximum indicated sound level: 112.8 dB

Sweep amplitude: 40 dB

Scan cycle time: 60 S; Measurement period: 180 S.

Items	Measured value/dB	Theoretical calculated value/dB	Error/dB
LAeq,T	103.2	103.2	0.0

L5	110.8	110.8	0.0
L10	108.8	108.8	0.0
L50	92.9	92.8	0.1
L90	76.9	76.8	0.1
L95	75.0	74.8	0.2

Uncertainty of measurement results: 0.4 dB (k=2)

Environment conditions:

Air temperature: 29 °C

Relative humidity: ___72_%

Static pressure: 100.9 kPa

References:

IEC 61672-3 Sound Level Meters Part 3: Periodic tests





Appendix F Noise Monitoring Results





Location NM1 - Village house in Lei Yue Mun Hoi Pong Road Central						
			Unit: dB (A) (30-mins)			
Date	Time	Time Weather Measured N		ured Noise	se Level	
			Leq	L ₁₀	L ₉₀	
2022-07-08	14:08	Fine	62.6	65.5	56.8	
2022-07-11	12:16	Sunny	63.5	64.8	62.6	
2022-07-22	14:47	Fine	64.6	65.9	62.6	
2022-07-28	13:35	Fine	61.9	65.0	58.9	

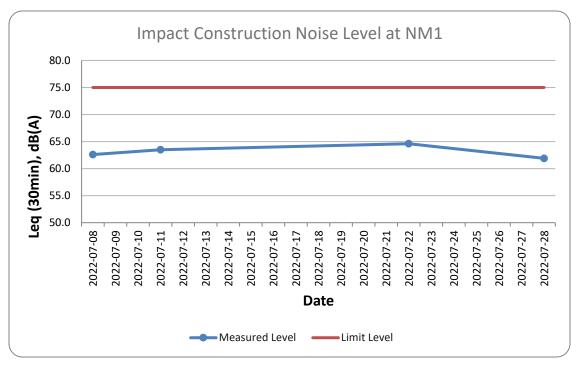
Location NM2A - No.79B, Lei Yue Mun Hoi Pong Road East						
			Unit: dB (A) (30-mins)			
Date	Time	Weather	Measured Noise Leve		Level	
			Leq	L ₁₀	L ₉₀	
2022-07-08	14:45	Fine	62.1	64.8	56.4	
2022-07-11	12:50	Sunny	63.8	65.3	62.1	
2022-07-22	15:23	Fine	61.6	64.0	56.1	
2022-07-28	14:46	Fine	59.7	63.2	56.8	

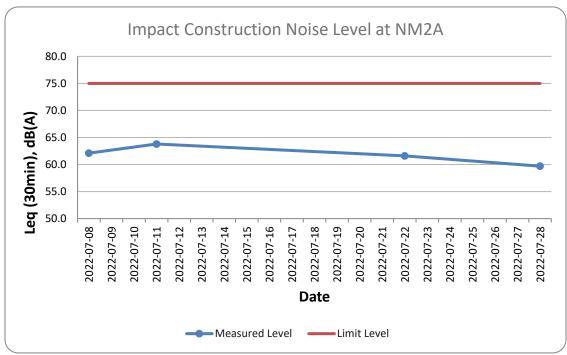
Location NM3 - Jockey Club Lei Yue Mun Plus						
Unit: dB (A) (30-m					·mins)	
Date	Time	Weather	Meas	Measured Noise Level		
			Leq	L ₁₀	L ₉₀	
2022-07-08	15:17	Fine	61.1	63.8	57.1	
2022-07-11	13:24	Sunny	56.4	58.1	55.1	
2022-07-22	16:00	Fine	61.6	64.2	57.8	
2022-07-28	13:01	Fine	62.5	65.4	59.0	

Location NM4 - No. 21C, Lei Yue Mun Hoi Pong Road East						
			Unit: dB (A) (30-mins)			
Date	Time	Weather	Meas	Level		
			Leq	L ₁₀	L ₉₀	
2022-07-08	15:55	Fine	67.7	69.9	64.9	
2022-07-11	14:00	Sunny	68.0	70.7	66.3	
2022-07-22	16:37	Fine	67.2	67.9	65.8	
2022-07-28	14:09	Fine	65.9	68.8	66.8	



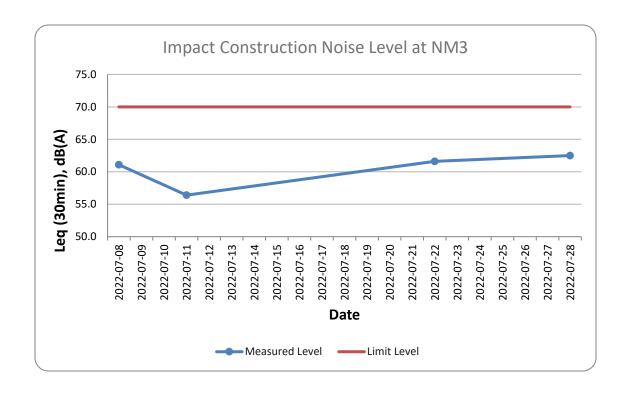


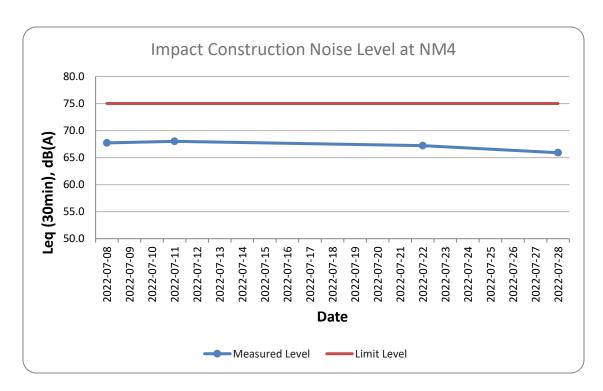
















Appendix G Event/Action Plan for Water Quality Exceedance





-	ACTION						
EVENT	ET	IEC	ER	CONTRACTOR			
Action level being exceeded by one sampling day	1. Repeat in-situ measurement to confirm findings; 2. Identify reasons for non-compliance and source(s) of impact; 3. Inform IEC and Contractor; 4. Check monitoring data, all plants, equipment and Contractor's working methods; 5. Discuss mitigation measures with IEC and Contractor; 6. (The above actions should be taken within 1 working day after the exceedance is identified) 7. Repeat measurement on next day of exceedance.	1. Discuss with ET and Contractor on the mitigation measures; 2. Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly; 3. Assess the effectiveness of the implemented mitigation measures. 4. (The above actions should be taken within 1 working day after the exceedance is identified)	Discuss with IEC on the proposed mitigation measures; Make agreement on the mitigation measures to be implemented. Assess the effectiveness of the implemented mitigation measures (The above actions should be taken within 1 working day after the exceedance is identified)	Inform the ER and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plants and equipment; Consider changes of working methods; Discuss with ET and IEC and propose mitigation measures to IEC and ER; Implement the agreed mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified)			
Action level being exceeded by more than one consecutive sampling days	1. Repeat in-situ measurement to confirm findings; 2. Identify reasons for non-compliance and source(s) of impact; 3. Inform IEC and Contractor; 4. Check monitoring data, all plants, equipment and Contractor's working methods; 5. Discuss mitigation measures with IEC and Contractor; 6. Ensure mitigation measures are implemented; 7. Prepare to increase the monitoring frequency to daily; 8. (The above actions should be taken within 1 working day after the exceedance is identified) 9. Repeat measurement on next working day of exceedance.	Discuss with ET and Contractor on the mitigation measures; Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly; Assess the effectiveness of the implemented mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified)	1. Discuss with IEC on the proposed mitigation measures; 2. Make agreement on the mitigation measures to be implemented; 3. Assess the effectiveness of the implemented mitigation measures. 4. (The above actions should be taken within 1 working day after the exceedance is identified)	Inform the ER and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plants and equipment; Consider changes of working methods; Discuss with ET and IEC and propose mitigation measures to IEC and ER within 3 working days; Implement the agreed mitigation measures. The above actions should be taken within 1 working day after the exceedance is identified)			





EVENT	ACTION						
	ET	IEC	ER	CONTRACTOR			
Limit level being exceeded by one sampling day	1. Repeat in-situ measurement to confirm findings; 2. Identify reasons for non-compliance and source(s) of impact; 3. Inform IEC, Contractor and EPD; 4. Check monitoring data, all plants, equipment and Contractor's working methods; 5. Discuss mitigation measures with IEC, ER and Contractor; 6. Ensure mitigation measures are implemented; 7. Increase the monitoring frequency to daily until no exceedance of Limit level. 8. (The above actions should be taken within 1 working day after the exceedance is identified)	Discuss with ET and Contractor on the mitigation measures; Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly; Assess the effectiveness of the implemented mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified)	Discuss with IEC, ET and Contractor on the proposed mitigation measures; Request Contractor to critically review the working methods; Make agreement on the mitigation measures to be implemented; Assess the effectiveness of the implemented mitigation measures. (The above actions should be taken within 1 working day after the exceedance is identified)	Inform the ER and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plants and equipment; Consider changes of working methods; Discuss with ET, IEC and ER and Propose mitigation measures to IEC and ER within 3 working days; Implement the agreed mitigation measures			
Limit level being exceeded by more than one consecutive sampling day	1. Repeat in-situ measurement to confirm findings; 2. Identify reasons for non-compliance and source(s) of impact; 3. Inform IEC, Contractor and EPD; 4. Check monitoring data, all plants, equipment and Contractor's working methods; 5. Discuss mitigation measures with IEC, ER and Contractor; 6. Ensure mitigation measures are implemented; 7. Increase the monitoring frequency to daily until no exceedance of Limit level for 2 consecutive days. 8. (The above actions should be taken within 1 working day after the exceedance is identified)	Discuss with ET and Contractor on the mitigation measures; Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly; Assess the effectiveness of the implemented mitigation measures.	Discuss with IEC, ET and Contractor on the proposed mitigation measures; Request Contractor to critically review the working methods; Make agreement on the mitigation measures to be implemented; Assess the effectiveness of the implemented mitigation measures. Consider and instruct, if necessary, the Contractor to slow down or to stop all or part of the dredging and sand filling work until no exceedance of Limit level. (The above actions should be taken within 1 working day after the exceedance is identified)	Inform the ER and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plants and equipment; Consider changes of working methods; Discuss with ET, IEC and ER and Propose mitigation measures to IEC and ER within 3 working days; Implement the agreed mitigation measures; As directed by the ER, to slow down or stop all or part of the dredging and sand filling work.			





Appendix H Water Quality Monitoring Equipment Calibration Certificate



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

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

REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No.

: R-BB060031

Date of Issue

: 17 June 2022

Page No.

: 1 of 2

PART A - CUSTOMER INFORMATION

Acuity Sustainability Consulting Limited Unit E, 12/F, Ford Glory Plaza 37-39 Wing Hong Street, Cheung Sha Wan Kowloon (HK) Hong Kong

PART B - SAMPLE INFORMATION

Name of Equipment:

HORIBA U-53

Manufacturer:

HORIBA

Serial Number:

Date of Received :

NEKVM2XU 15 June 2022

Date of Calibration :

15 June 2022

Date of Next Calibration :

14 September 2022

PART C - REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

Test Parameter

Reference Method APHA 21e 2130B

Turbidity Dissolved oxygen

APHA 21e 4500 O

pH value Salinity APHA 21e 4500 H+

Temperature

APHA 21e 2520B

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

2008: Working Thermometer Calibration Procedure

PART D - CALIBRATION RESULT

(1) Turbidity

EXPECTED READING (NTU)	DISPLAY READING (NTU)	TOLERANCE (%)	RESULT
0	0.00		Satisfactory
10	10.70	7.0	Satisfactory
20	21.00	5.0	Satisfactory
100	109.00	9.0	Satisfactory
800	796.00	-0.5	Satisfactory

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

(2) Dissolved oxygen

EXPECTED READING (MG/L)	DISPLAY READING (MG/L)	TOLERANCE	RESULT
8.17	8.20	0.03	Satisfactory
5.58	5.50	-0.08	Satisfactory
3,53	3.30	-0.23	Satisfactory
0.08	0.00	-0.08	Satisfactory

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

(3) pH value

TARGET (PH UNIT)	DISPLAY READING (PH UNIT)	TOLERANCE	RESULT
--------------------	-----------------------------	-----------	--------

--- CONTINUED ON NEXT PAGE ---

AUTHORIZED SIGNATORY:

LEE Chun ning
Assistant Manager (Chemical Testing)



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

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

REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No.

: R-BB060031

Date of Issue

: 17 June 2022

Page No.

: 2 of 2

TARGET (PH UNIT)	DISPLAY READING (PH UNIT)	TOLERANCE	RESULT
4.00	4.00	0.00	Satisfactory
7.42	7.42	0.00	Satisfactory
10.01	10.16	0.15	Satisfactory

Tolerance of pH value should be less than ± 0.2 (pH unit)

(4) Salinity

EXPECTED READING (G/L)	DISPLAY READING (G/L)	TOLERANCE (%)	RESULT
10	9.04	-9.60	Satisfactory
20	18.93	-5.35	Satisfactory
30	29.25	-2.50	Satisfactory

Tolerance of Salinity should be less than ± 10.0 (%)

(5) Temperature

READING OF REF. THERMOMETER (°C)	DISPLAY READING (°C)	TOLERANCE	RESULT
16.0	16.07	0.07	Satisfactory
24.0	23.99	-0.01	Satisfactory
34.0	33.73	-0.27	Satisfactory

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

Remark(s)

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

--- END OF REPORT ---





Appendix I Water Quality Monitoring Results

1			ı	ı	1	1	ı									
							Depth (m)									Direction Remark
	C1						1									/
Company Comp	C1			t			10.65									//
1	C1															/
Company Comp	C1 C1															/
2	C2						1									/
2	C2						1									/
20	C2 C2															/
10	C2															/
10	C2						20.8									/
10 10 10 10 10 11 12 13 15 17 17 18 19 19 19 19 19 19 19	M1 M1						1									//
10	M1						3.7									/
10	M1															/
Section Sect	M1															//
March Marc	M2			Moderate		Surface	1							2.5		/
202 2020/2006 Comp. March Ma	M2						1									/,
March Marc	M2															//
200 2007/100 Carbon December Decem	M2													2.5	0.280 E	/
10 2000000 2000000	M2						11.9									/,
10 2022000 Conf. Moderate Web Part Market Apr. Ap	M3						1									//
10 200,000 Conde Medical Selection T. 1,014 1,00	M3	20220705	Cloudy	Moderate	Mid-Ebb	Middle		15:15	8.68	8.32	30.92	28.26	2.51	3	0.291 E	/
20 2020000 Condy Mondree Montree Mon	M3															/,
Math March	M3 M3															//
Math March	M4	20220705	Cloudy	Moderate	Mid-Ebb	Surface	1	15:55	9.36	8.14	30.62	28.36	3.69	3	0.278 SE	/
Math	M4						1									/,
1	M4 M4															//
13 2022007 Clady Moderate Mod Do Middle 113 1246 129 278 288 29.2 2.2 3.28 3 2.2 2	C1				Mid-Ebb		1	15:47	8.63		30.48	28.35	3.12	2.5	0.291 E	/
13 2022007 Clondy Moderate Work 10 Modera 11 12-66 1.00 202 202 202 3.00 3.00 4 0.00 0.	C1						1 11 2									
13	C1															//
22 2022007 Cooly Monderest Mod-Selb Serfere 1 1654 8.79 8.21 29.91 28.65 2.20 6 0.272 6 // (2.202 2.	C1	20220707	Cloudy	Moderate	Mid-Ebb	Bottom	21.6	15:45	8.78	8.25	30.51		3.48		0.285 E	/
22 2023007 Cloudy Moderate Models Models Confedence 1 1605 8.0 2.2 30.14 28.61 2.21 2.21 2.22 2.02 2.25 7.2 2.25 2	C1						21.6									/,
22 2020070 (Gloudy Moderate Modella Modella (Modella Company) 1,613 1,	C2						1									//
22 2020007 Cough Moderate Mod-De Bottom 23 3 1652 8.70 8.25 3.00 28.46 3.15 4 0.775 5 / 1.00 1.00	C2	20220707	Cloudy	Moderate	Mid-Ebb	Middle		16:53	8.77	8.31	30.16	28.51	2.81		0.292 SE	/
22 2020/07/1 Courty Moderate Mod-De Storter 1 16/21 8.00 8.29 8.28 8.29 8.26 2.76 3 0.277 S.	C2															/
MI	C2															//
NE 2022970 Cloudy Modernee Mode Bu Mode 12 2020 No. 8 60 8.00 8.	M1		,				1	_								/
MI	M1						1 22									/
MI	M1															//
NZ 3022070 Cloudy Moderate Mode 108 Surface 1 1 16:09 6-06 8.22 33.55 2 26:03 3.16 3 0.296 SE / / / / / / / / / / / / / / / / / /	M1				Mid-Ebb		5.4	16:19			30.07	28.37	2.79		0.292 SE	/
NZ D220707 Cloudy Moderate Mid-10b Surface 1 1 16:05 8.77 8.29 31.88 2.246 2.24 2.5 0.281 SE // NZ D220707 Cloudy Moderate Mid-10b Middle 7:05 16:04 8.77 8.29 31.88 2.23 31.31 28.84 2.74 2.5 0.291 SE // NZ D220707 Cloudy Moderate Mid-10b Middle 7:05 16:04 8.77 8.29 31.88 28.33 31.41 3 0.300 SE // NZ D220707 Cloudy Moderate Mid-10b Middle 7:05 16:04 8.77 8.25 31.88 28.33 31.41 3 0.300 SE // NZ D220707 Cloudy Moderate Mid-10b Middle 7:05 16:04 8.77 8.25 31.88 28.33 31.40 7.35 3.35 31.40 7.35 3.300 SE // NZ D220707 Cloudy Moderate Mid-10b Middle 3:05 16:04 8.08 8.20 31.20 7.35 31.00 7.35 31	M1			t			5.4									/
Mail	M2						1									//
NZ 2022977 Cloudy Moderate Mot-Bib Bottom 131 1609 6.85 8.0 33.0 33.0 28.0 32.0 27.0 25 0.77 6 C / NA 2022977 Cloudy Moderate Mot-Bib Bottom 131 1609 6.86 8.2 2.0 31.2 8.3 2.0 30.7 25 0.29 5 C / NA 2022977 Cloudy Moderate Mot-Bib Surface 1 16.37 8.7 8.2 31.0 28.4 1.2 2.0 2.5 0.27 5 C / NA 2022977 Cloudy Moderate Mot-Bib Surface 1 16.37 8.7 8.2 31.0 28.4 1.2 2.0 2.5 0.27 5 C / NA 2022977 Cloudy Moderate Mot-Bib Modele 3.5 16.5 6 7.7 8.2 31.0 2.0 2.0 2.0 2.5 0.2 5 0.2 5 0.2 5 C / NA 2022977 Cloudy Moderate Mot-Bib Modele 3.5 16.5 6 7.7 8.2 0 31.1 8 2.8 2 2.0 2.0 2.5 0.2 5 0.2 5 C / NA 2022977 Cloudy Moderate Mot-Bib Modele 3.5 16.5 6 7.7 8.2 0 31.1 8 2.8 2 2.0 2.0 2.5 0.2 5 C / NA 2022977 Cloudy Moderate Mot-Bib Modele 3.5 16.5 6 7.7 8.2 0 31.1 8 2.8 2 2.0 2.0 2.5 0.2 5 C / NA 2022977 Cloudy Moderate Mot-Bib Bottom 6.1 16.3 8.7 6 8.0 10.0 3.0 2 2.0 2.0 3.0 1 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0	M2															/
March March Moderate Mode Selb Surface	M2															/
M3	M2															//
M3	M3						1									/
M3			,				255									/
Mail	M3															//
MM 2022070 Gloudy Moderate Mit-Ebb Surface 1 1 37:39 8.79 8.10 30.27 28.49 2.72 2.5 0.294 SE // MM 2022070 Gloudy Moderate Mit-Ebb Surface 1 1 37:39 8.76 8.11 30.14 28:57 2.97 2.5 0.294 SE // MM 2022070 Gloudy Moderate Mit-Ebb Surface 1 1 37:39 8.86 8.10 30.13 28:46 2.81 2.5 0.267 E // MM 2022070 Gloudy Moderate Mit-Ebb Surface 1 1 8:02 8.94 8.13 30.34 28:44 3.18 2.5 0.272 E // MM 2022070 Gloudy Moderate Mit-Ebb Surface 1 1 8:02 8.94 8.13 31:91 28:11 5.16 4 0.279 SE // MM 2022070 Gloudy Moderate Mit-Ebb Surface 1 1 8:02 8.94 8.13 31:91 28:11 5.16 4 0.279 SE // MM 2022070 Gloudy Moderate Mit-Ebb Surface 1 1 8:02 8.94 8.13 31:91 28:11 5.16 4 0.279 SE // MM 2022070 Gloudy Moderate Mit-Ebb Surface 1 1 8:02 8.94 8.13 31:91 28:11 5.16 4 0.279 SE // MM 2022070 Gloudy Moderate Mit-Ebb Surface 1 1 8:02 8.88 8.15 31:87 31:79 28:14 5.40 4 0.299 SE // MM 2022070 Gloudy Moderate Mit-Ebb Surface 1 1 9:19 8:01 8.88 8.17 31:79 28:14 5.40 4 0.299 SE // MM 2022070 Gloudy Moderate Mit-Ebb Surface 1 1 9:19 8:00 8.88 8.09 31:99 28:10 6:04 4 0.296 E // MM 2022070 Gloudy Moderate Mit-Ebb Surface 1 1 9:19 9:11 8:13 31:63 28:12 4.37 5 0.275 E // MM 2022070 Gloudy Moderate Mit-Ebb Surface 1 1 9:19 9:11 8:13 31:63 28:22 4.37 5 0.275 E // MM 2022070 Gloudy Moderate Mit-Ebb Surface 1 1 9:19 9:11 8:11 31:03 31:03 28:22 4.37 5 0.275 E // MM 2022070 Gloudy Moderate Mit-Ebb Surface 1 1 9:19 8:48 8.11 31:64 27:79 8 4.48 3 0.267 E // MM 2022070 Gloudy Moderate Mit-Ebb Surface 1 1 9:19 8:49 8:11 31:64 27:79 8 4:48 3 0.267 E // MM 2022070 Gloudy Moderate Mit-Ebb Surface 1 1 8:42 7 9:79 8:09 8:12 31:72 28:04 4:75 5 0.275 E // MM 2022070 Gloudy Moderate Mit-Ebb Surface 1 1 8:42 7 9:79 8:09 3:18 3:17 28:04 4:75 6 0.279 E // MM 2022070 Gloudy Moderate Mit-Ebb Surface 1 1 8:42 8:42 8:49 8:40 8:40 8:40 8:40 8:40 8:40 8:40 8:40	M3															/
May 2022070 Cloudy Moderate Mid-Ebb Surface 1 1 7:19 8.76 8.11 30.14 28.87 2.97 2.5 0.299 SE // May 2022070 Cloudy Moderate Mid-Ebb Surface 1 1 8:02 8.86 8.10 30.13 28.46 2.81 2.5 0.277 E // May 2022070 Cloudy Moderate Mid-Ebb Surface 1 1 8:02 8.87 8.14 30.34 28.44 3.18 2.5 0.277 E // L1 2022070 Cloudy Moderate Mid-Ebb Surface 1 1 8:02 8.88 8.17 31.87 28.11 5.16 4 0.279 SE // L1 2022070 Cloudy Moderate Mid-Ebb Surface 1 1 8:02 8.88 8.17 31.87 28.11 5.16 4 0.279 SE // L1 2022070 Cloudy Moderate Mid-Ebb Surface 1 1 8:02 8.88 8.17 31.87 28.11 5.16 4 0.279 SE // L1 2022070 Cloudy Moderate Mid-Ebb Surface 1 1 8:02 8.88 8.17 31.87 28.11 5.16 4 0.279 SE // L1 2022070 Cloudy Moderate Mid-Ebb Surface 1 1 8:02 8.88 8.17 31.83 28.12 5.30 3 0.271 SE // L1 2022070 Cloudy Moderate Mid-Ebb Surface 1 1 8:02 8.80 8.89 8.17 31.83 28.12 5.30 3 0.271 SE // L1 2022070 Cloudy Moderate Mid-Ebb Surface 1 1 9:19 8.89 8.11 31.80 28.28 28.12 5.30 3 0.271 SE // L1 2022070 Cloudy Moderate Mid-Ebb Surface 1 1 9:19 8.89 8.11 31.80 28.28 28.12 5.30 3 0.282 SE // L2 2022070 Cloudy Moderate Mid-Ebb Surface 1 1 9:19 8.89 8.11 31.64 27.29 4.48 3 0.267 SE // L2 2022070 Cloudy Moderate Mid-Ebb Surface 1 1 9:19 8.89 8.11 31.64 27.29 4.48 3 0.267 SE // L2 2022070 Cloudy Moderate Mid-Ebb Surface 1 1 9:19 8.89 8.11 31.64 27.29 4.48 3 0.267 SE // L2 2022070 Cloudy Moderate Mid-Ebb Surface 1 1 9:19 8.89 8.11 31.64 27.29 4.48 3 0.267 SE // L2 2022070 Cloudy Moderate Mid-Ebb Surface 1 1 9:19 8.99 8.10 8.10 8.10 8.20 8.20 8.20 8.20 8.20 8.20 8.20 8.2							6.1									/
Mathematics Moderate Modera	M4						1					-				/
11 20220709 Cloudy Moderate Mid-Ebb Surface 1 8.02 8.98 8.13 31.91 28.22 4.98 3 0.265 5 /	M4															1/.
1.1	M4 C1													_		//
20220709 Cloudy Moderate Mid-Ebb Middle 10.5 8.01 8.88 8.17 31.87 28.14 5.49 4 0.299 SE /	C1															//
11	C1	20220709	Cloudy		Mid-Ebb	Middle		8:01	8.88	8.17	31.79	28.14	5.49	4	0.299 SE	/
20220799 Cloudy Moderate Mid-Ebb Sufface 1 9:19 9:19 8.94 8.11 31.63 8.22 4.37 5 0.275 E / / / / / / / / / / / / / / / / /	C1 C1															
20220709 Cloudy Moderate Mid-Ebb Surface 1 9:19 9:11 8:13 3:163 28:22 4:37 5 0.275 E / 20220709 Cloudy Moderate Mid-Ebb Middle 11:85 9:18 8:94 8:11 3:164 27:99 4:48 3 0.267 E / 20220709 Cloudy Moderate Mid-Ebb Middle 11:85 9:18 8:99 8:12 3:17.2 28:04 4:75 4 0.297 E / 20220709 Cloudy Moderate Mid-Ebb Middle 11:85 9:18 8:99 8:12 3:17.2 28:04 4:75 4 0.297 E / 20220709 Cloudy Moderate Mid-Ebb Bottom 2:27 9:17 9:10 8:09 3:19 27:98 4:99 4 0.267 SE / 20220709 Cloudy Moderate Mid-Ebb Southom 2:27 9:17 9:12 8:14 3:16.3 28:13 3:10 27:98 4:99 4 0.267 SE / 20220709 Cloudy Moderate Mid-Ebb Surface 1 8:42 7:96 8:15 3:216 27:82 4:08 6 0.298 SE / 20220709 Cloudy Moderate Mid-Ebb Surface 1 8:42 7:96 8:15 3:216 27:82 4:08 6 0.298 SE / 20220709 Cloudy Moderate Mid-Ebb Middle 3:6 8:41 8:09 8:11 3:225 2:808 4:07 4 0.293 SE / 20220709 Cloudy Moderate Mid-Ebb Middle 3:6 8:41 8:09 8:11 3:225 2:808 4:07 4 0.293 SE / 20220709 Cloudy Moderate Mid-Ebb Bottom 6:2 8:40 8:16 8:09 3:233 27:91 4:11 4 0.285 SE / 20220709 Cloudy Moderate Mid-Ebb Bottom 6:2 8:40 8:16 8:09 3:233 27:91 4:11 4 0.285 SE / 20220709 Cloudy Moderate Mid-Ebb Bottom 6:2 8:40 8:16 8:09 3:233 27:91 4:12 5 0.277 SE / 20220709 Cloudy Moderate Mid-Ebb Bottom 6:2 8:40 8:16 8:09 3:233 27:91 4:12 5 0.277 SE / 20220709 Cloudy Moderate Mid-Ebb Bottom 6:2 8:40 8:16 8:20 8:18 8:24 3:14 3:16 3:15 4:40 5 0.277 SE / 20220709 Cloudy Moderate Mid-Ebb Middle 6:8 8:20 7:98 8:23 3:18 2:27 3:11 4:10 4 0.294 SE / 20220709 Cloudy Moderate Mid-Ebb Middle 6:8 8:20 7:98 8:23 3:18 2:27 3:17	C1													3	0.282 SE	//
20220709 Cloudy Moderate Mid-Ebb Middle 11.85 91.8 8.92 8.08 31.69 27.98 4.83 5 0.282 5 / 20220709 Cloudy Moderate Mid-Ebb Middle 11.85 91.8 8.99 8.12 31.72 28.04 4.75 4 0.297 E / / 20220709 Cloudy Moderate Mid-Ebb Bottom 22.7 91.7 9.01 8.09 31.90 27.98 4.99 4 0.267 SE / 20220709 Cloudy Moderate Mid-Ebb Bottom 22.7 91.7 91.2 8.14 31.63 28.13 5.10 4 0.294 SE / / 20220709 Cloudy Moderate Mid-Ebb Surface 1 8.42 7.96 8.15 32.16 27.82 4.08 6 0.288 SE / / / / / / / / / / / / / / / / / /	C2	20220709	Cloudy	Moderate	Mid-Ebb	Surface	1	9:19	9.11	8.13	31.63	28.22	4.37		0.275 E	/
222 20220709 Cloudy Moderate Mid-Ebb Middle 11.85 91.8 8.99 8.12 31.72 28.04 4.75 4 0.297 E / 20220709 Cloudy Moderate Mid-Ebb Bottom 22.7 9.17 9.10 8.09 31.90 27.98 4.99 4 0.267 SE / 20220709 Cloudy Moderate Mid-Ebb Bottom 22.7 9.17 9.12 8.14 31.63 28.13 5.10 4 0.294 SE / 20220709 Cloudy Moderate Mid-Ebb Surface 1 8.42 7.99 8.09 32.18 27.97 3.96 4 0.285 E / 20220709 Cloudy Moderate Mid-Ebb Surface 1 8.42 7.99 8.09 32.18 27.97 3.96 4 0.285 E / 20220709 Cloudy Moderate Mid-Ebb Surface 1 8.42 7.99 8.19 S.11 32.25 28.08 4.07 4 0.293 SE / 20220709 Cloudy Moderate Mid-Ebb Middle 3.6 8.41 8.09 8.11 32.25 28.08 4.07 4 0.293 SE / 20220709 Cloudy Moderate Mid-Ebb Bottom 6.2 8.40 8.16 8.09 8.32 32.79 4.11 4 0.285 SE / 20220709 Cloudy Moderate Mid-Ebb Bottom 6.2 8.40 8.16 8.09 32.33 27.91 4.11 4 0.285 SE / 20220709 Cloudy Moderate Mid-Ebb Surface 1 8.21 8.15 8.25 31.86 28.31 4.36 4 0.294 SE / 20220709 Cloudy Moderate Mid-Ebb Surface 1 8.21 8.15 8.25 31.86 28.31 4.36 4 0.294 SE / 20220709 Cloudy Moderate Mid-Ebb Surface 1 8.21 8.15 8.25 31.86 28.31 4.36 4 0.294 SE / 20220709 Cloudy Moderate Mid-Ebb Surface 1 8.21 8.15 8.25 31.86 28.31 4.36 4 0.294 SE / 20220709 Cloudy Moderate Mid-Ebb Middle 6.8 8.20 8.18 8.24 31.93 28.27 4.11 4 0.294 SE / 20220709 Cloudy Moderate Mid-Ebb Middle 6.8 8.20 8.18 8.24 31.93 28.27 4.11 4 0.294 SE / 20220709 Cloudy Moderate Mid-Ebb Middle 6.8 8.20 8.18 8.24 31.93 28.27 4.11 4 0.294 SE / 20220709 Cloudy Moderate Mid-Ebb Middle 3.5 9.00 8.51 8.19 8.08 8.25 31.85 27.99 3.59 4 0.294 SE / 2	C2 C2			1			11.85									//
	C2													4	0.297 E	/
M1 20220709 Cloudy Moderate Mid-Ebb Surface 1 8:42 7.99 8.09 32.18 27.97 3.96 4 0.285 E // M1 20220709 Cloudy Moderate Mid-Ebb Surface 1 8:42 7.99 8.09 32.18 27.97 3.96 4 0.285 E // M1 20220709 Cloudy Moderate Mid-Ebb Middle 3.6 8:41 8.09 8.01 32.16 27.82 4.08 6 0.298 SE // M1 20220709 Cloudy Moderate Mid-Ebb Middle 3.6 8:41 8.09 8.01 32.25 28.08 4.07 4 0.293 SE // M1 20220709 Cloudy Moderate Mid-Ebb Surface 8.41 8.09 8.08 32.25 27.91 4.11 4 0.285 SE // M1 20220709 Cloudy Moderate Mid-Ebb Bottom 6.2 8:40 8.16 8.09 32.33 27.91 4.12 5 0.277 SE // M1 20220709 Cloudy Moderate Mid-Ebb Bottom 6.2 8:40 8.17 8.14 32.14 27.96 4.24 4 0.269 SE // M2 20220709 Cloudy Moderate Mid-Ebb Surface 1 8:21 8.15 8.25 31.86 28.31 4.36 4 0.274 SE // M2 20220709 Cloudy Moderate Mid-Ebb Surface 1 8:21 8.18 8.25 31.86 28.31 4.36 4 0.294 SE // M2 20220709 Cloudy Moderate Mid-Ebb Surface 1 8:20 8.89 8.20 8.18 8.24 31.93 28.27 4.11 4 0.294 SE // M2 20220709 Cloudy Moderate Mid-Ebb Bottom 6.8 8:20 8.18 8.24 31.93 28.27 4.11 4 0.294 SE // M2 20220709 Cloudy Moderate Mid-Ebb Bottom 12.6 8.19 8.08 8.25 31.85 28.21 4.35 4 0.274 SE // M2 20220709 Cloudy Moderate Mid-Ebb Bottom 12.6 8.19 8.08 8.25 31.85 28.21 4.35 4 0.284 E // M3 20220709 Cloudy Moderate Mid-Ebb Bottom 12.6 8.19 8.08 8.25 31.85 28.21 4.35 4 0.284 E // M3 20220709 Cloudy Moderate Mid-Ebb Surface 1 9.01 8.59 8.19 8.08 8.25 31.85 27.99 3.55 4 0.284 E // M3 20220709 Cloudy Moderate Mid-Ebb Surface 1 9.01 8.59 8.19 8.08 8.25 31.85 27.99 3.55 4 0.284 E // M3 20220709 Cloudy Moderate Mid-Ebb Surface 1 9.01 8.59 8.19 8.08 8.25 31.85 27.99 3.55 4 0.271 E // M3 20220709 Cloudy Moderate Mid-Ebb Surface 1 9.01 8.59 8.19 8.08 8.25 31.85 27.99 3.55 4 0.281 E // M3 20220709 Cloudy Moderate Mid-Ebb Surface 1 9.01 8.59 8.19 8.08 8.25 31.85 27.99 3.59 4 0.271 E // M3 20220709 Cloudy Moderate Mid-Ebb Surface 1 9.01 8.59 8.19 8.08 8.27 31.97 28.19 3.99 4 0.269 SE // M3 20220709 Cloudy Moderate Mid-Ebb Surface 1 9.01 8.59 8.59 8.19 8.19 31.97 28.19 3.99 4 0.269 SE // M3 20220709 Cloudy Moderate Mid-Eb	C2	20220709	Cloudy	Moderate	Mid-Ebb	Bottom	22.7	9:17	9.01	8.09	31.90	27.98	4.99	4	0.267 SE	/
M1 20220709 Cloudy Moderate Mid-Ebb Surface 1 8:42 7.96 8.15 32.16 27.82 4.08 6 0.298 SE // M1 20220709 Cloudy Moderate Mid-Ebb Middle 3.6 8:41 8.09 8.11 32.25 28.08 4.07 4 0.293 SE // M1 20220709 Cloudy Moderate Mid-Ebb Middle 3.6 8:41 8.09 8.08 32.25 27.91 4.11 4 0.285 SE // M1 20220709 Cloudy Moderate Mid-Ebb Bottom 6.2 8:40 8.16 8.09 32.33 27.91 4.12 5 0.277 SE // M2 20220709 Cloudy Moderate Mid-Ebb Surface 1 8:21 8.10 8.25 31.86 28.31 4.36 4 0.274 SE // M2 20220709 Cloudy Moderate Mid-Ebb Surface 1 8:21 8.10 8.25 31.86 28.31 4.36 4 0.274 SE // M2 20220709 Cloudy Moderate Mid-Ebb Surface 1 8:21 8.09 8.27 32.02 28.33 4.28 4 0.294 SE // M2 20220709 Cloudy Moderate Mid-Ebb Midle 6.8 8:20 8.18 8.24 31.93 28.27 4.11 4 0.294 SE // M2 20220709 Cloudy Moderate Mid-Ebb Midle 6.8 8:20 7.98 8.23 32.03 28.15 4.40 5 0.277 E // M2 20220709 Cloudy Moderate Mid-Ebb Surface 1 8.21 8.10 8.22 8.18 8.24 31.93 28.27 4.11 4 0.294 SE // M2 20220709 Cloudy Moderate Mid-Ebb Midle 6.8 8:20 7.98 8.23 32.03 28.15 4.40 5 0.272 E // M2 20220709 Cloudy Moderate Mid-Ebb Surface 1 8.19 8.08 8.25 31.85 28.21 4.35 4 0.284 E // M3 20220709 Cloudy Moderate Mid-Ebb Surface 1 9.01 8.69 8.16 31.58 27.90 3.55 4 0.289 E // M3 20220709 Cloudy Moderate Mid-Ebb Surface 1 9.01 8.69 8.16 31.58 27.90 3.55 4 0.294 SE // M3 20220709 Cloudy Moderate Mid-Ebb Surface 1 9.01 8.69 8.16 31.58 27.90 3.55 4 0.294 SE // M3 20220709 Cloudy Moderate Mid-Ebb Surface 1 9.01 8.69 8.16 31.58 27.90 3.55 4 0.289 E // M3 20220709 Cloudy Moderate Mid-Ebb Surface 1 9.01 8.69 8.16 31.58 27.99 3.71 5 0.301 E // M3 20220709 Cloudy Moderate Mid-Ebb Surface 1 9.01 8.69 8.18 8.31 31.50 27.99 3.71 5 0.301 E // M3 20220709 Cloudy Moderate Mid-Ebb Surface 1 9.00 8.51 8.13 1.16 27.99 3.71 5 0.301 E // M4 20220709 Cloudy Moderate Mid-Ebb Surface 1 9.40 9.06 8.27 31.97 28.19 3.99 4 0.269 SE // M4 20220709 Cloudy Moderate Mid-Ebb Surface 1 9.40 9.06 8.27 31.97 28.19 3.99 4 0.25 0.263 SE // M4 20220709 Cloudy Moderate Mid-Ebb Surface 1 9.40 9.06 8.27 31.97 28.19 3.99 4 0.25 0.263 SE //	M1															<u>//</u>
M1 20220709 Cloudy Moderate Mid-Ebb Middle 3.6 8.41 8.09 8.11 32.25 28.08 4.07 4 0.293 SE // M1 20220709 Cloudy Moderate Mid-Ebb Middle 3.6 8.41 8.09 8.11 32.25 28.08 4.07 4 0.293 SE // M1 20220709 Cloudy Moderate Mid-Ebb Bottom 6.2 8.40 8.16 8.09 32.33 27.91 4.11 4 0.285 SE // M1 20220709 Cloudy Moderate Mid-Ebb Bottom 6.2 8.40 8.16 8.09 32.33 27.91 4.12 5 0.277 SE // M2 20220709 Cloudy Moderate Mid-Ebb Surface 1 8.21 8.15 8.25 31.86 28.31 4.36 4 0.269 SE // M2 20220709 Cloudy Moderate Mid-Ebb Surface 1 8.21 8.15 8.25 31.86 28.31 4.36 4 0.274 SE // M2 20220709 Cloudy Moderate Mid-Ebb Surface 1 8.21 8.09 8.27 32.02 28.33 4.28 4 0.294 SE // M2 20220709 Cloudy Moderate Mid-Ebb Middle 6.8 8.20 8.18 8.24 31.93 28.27 4.11 4 0.294 SE // M2 20220709 Cloudy Moderate Mid-Ebb Middle 6.8 8.20 8.18 8.24 31.93 28.27 4.11 4 0.294 SE // M2 20220709 Cloudy Moderate Mid-Ebb Surface 1 8.19 8.08 8.25 31.85 28.21 4.35 4 0.284 E // M2 20220709 Cloudy Moderate Mid-Ebb Sottom 12.6 8.19 8.08 8.25 31.85 28.21 4.35 4 0.284 E // M3 20220709 Cloudy Moderate Mid-Ebb Sottom 12.6 8.19 8.08 8.25 31.85 28.21 4.35 4 0.284 E // M3 20220709 Cloudy Moderate Mid-Ebb Sotrace 1 9.901 8.69 8.16 31.58 27.90 3.55 4 0.289 E // M3 20220709 Cloudy Moderate Mid-Ebb Surface 1 9.901 8.69 8.16 31.58 27.99 3.59 4 0.271 SE // M3 20220709 Cloudy Moderate Mid-Ebb Surface 1 9.901 8.69 8.16 31.58 27.99 3.59 4 0.271 SE // M3 20220709 Cloudy Moderate Mid-Ebb Surface 1 9.901 8.59 8.10 31.62 27.99 3.71 S 0.301 E // M3 20220709 Cloudy Moderate Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Surface 1 9.901 8.59 8.50 8.10 31.62 27.99 3.71 S 0.301 E // M3 20220709 Cloudy Moderate Mid-Ebb Surface 1 9.901 8.59 8.50 8.50 8.50 3.70 4 0.289 E // M3 20220709 Cloudy Moderate Mid-Ebb Surface 1 9.901 8.59 8.50 8.50 8.50 3.70 4 0.289 E // M3 20220709 Cloudy Moderate Mid-Ebb Surface 1 9.900 8.51 8.51 31.60 28.05 3.70 4 0.269 SE // M3 20220709 Cloudy Moderate Mid-Ebb Surface 1 9.900 8.52 8.53 8.51 31.60 28.05 3.70 4 0.269 SE // M4 20220709 Cloudy Moderate Mid-Ebb Surface 1 9.900 9.00 8.25 31.85 27.99	M1						1							6	0.298 SE	
M1 20220709 Cloudy Moderate Mid-Ebb Bottom 6.2 8.40 8.16 8.09 32.33 27.91 4.12 5 0.277 5E / M2 20220709 Cloudy Moderate Mid-Ebb Surface 1 8.21 8.15 8.25 31.86 28.31 4.36 4 0.269 5E / M2 20220709 Cloudy Moderate Mid-Ebb Surface 1 8.21 8.09 8.72 32.02 28.33 4.28 4 0.294 5E / M2 20220709 Cloudy Moderate Mid-Ebb Middle 6.8 8.20 8.18 8.24 31.93 28.27 4.11 4 0.294 5E / M2 20220709 Cloudy Moderate Mid-Ebb Middle 6.8 8.20 7.98 8.23 32.03 28.15 4.40 5 0.277 E / M2 20220709 Cloudy Moderate Mid-Ebb Middle 6.8 8.20 7.98 8.23 32.03 28.15 4.40 5 0.272 E / M2 20220709 Cloudy Moderate Mid-Ebb Middle 6.8 8.19 8.08 8.25 31.85 28.21 4.35 4 0.284 E / M2 20220709 Cloudy Moderate Mid-Ebb Surface 1 9.01 8.69 8.16 31.58 27.90 3.55 4 0.284 E / M3 20220709 Cloudy Moderate Mid-Ebb Surface 1 9.01 8.69 8.16 31.58 27.90 3.55 4 0.289 E / M3 20220709 Cloudy Moderate Mid-Ebb Surface 1 9.01 8.69 8.16 31.58 27.90 3.55 4 0.289 E / M3 20220709 Cloudy Moderate Mid-Ebb Middle 3.5 9.00 8.61 8.09 31.31 27.99 3.71 5 0.301 E / M3 20220709 Cloudy Moderate Mid-Ebb Middle 3.5 9.00 8.61 8.09 31.43 27.95 3.61 4 0.283 E / M3 20220709 Cloudy Moderate Mid-Ebb Middle 3.5 9.00 8.53 8.10 31.62 27.92 3.56 4 0.283 E / M3 20220709 Cloudy Moderate Mid-Ebb Middle 3.5 9.00 8.51 8.10 31.62 27.92 3.56 4 0.283 E / M3 20220709 Cloudy Moderate Mid-Ebb Middle 3.5 9.00 8.53 8.10 31.62 27.92 3.56 4 0.283 E / M3 20220709 Cloudy Moderate Mid-Ebb Mid-Ebb	M1	20220709	Cloudy	Moderate	Mid-Ebb	Middle			8.09	8.11		28.08		4	0.293 SE	/
M1 20220709 Cloudy Moderate Mid-Ebb Surface 1 8.21 8.09 8.17 8.14 32.14 27.96 4.24 4 0.269 SE // M2 20220709 Cloudy Moderate Mid-Ebb Surface 1 8.21 8.09 8.27 32.02 28.33 4.28 4 0.274 SE // M2 20220709 Cloudy Moderate Mid-Ebb Surface 1 8.21 8.09 8.27 32.02 28.33 4.28 4 0.294 SE // M2 20220709 Cloudy Moderate Mid-Ebb Middle 6.8 8.20 8.18 8.24 31.93 28.27 4.11 4 0.294 SE // M2 20220709 Cloudy Moderate Mid-Ebb Middle 6.8 8.20 8.18 8.24 31.93 28.27 4.11 4 0.294 SE // M2 20220709 Cloudy Moderate Mid-Ebb Surface 1 8.21 8.09 8.20 8.18 8.24 31.93 28.27 4.11 4 0.294 SE // M2 20220709 Cloudy Moderate Mid-Ebb Bottom 12.6 8.19 8.08 8.25 31.85 28.21 4.35 4 0.284 E // M2 20220709 Cloudy Moderate Mid-Ebb Surface 1 9.01 8.08 8.19 8.08 8.25 31.85 28.21 4.35 4 0.284 E // M3 20220709 Cloudy Moderate Mid-Ebb Surface 1 9.01 8.69 8.16 31.58 27.90 3.55 4 0.289 E // M3 20220709 Cloudy Moderate Mid-Ebb Surface 1 9.01 8.69 8.16 31.58 27.99 3.55 4 0.289 E // M3 20220709 Cloudy Moderate Mid-Ebb Middle 3.5 9.00 8.61 8.09 31.73 27.99 3.71 5 0.301 E // M3 20220709 Cloudy Moderate Mid-Ebb Middle 3.5 9.00 8.63 8.10 31.62 27.99 3.71 5 0.301 E // M3 20220709 Cloudy Moderate Mid-Ebb Middle 3.5 9.00 8.53 8.10 31.62 27.99 3.71 5 0.301 E // M3 20220709 Cloudy Moderate Mid-Ebb Middle 3.5 9.00 8.53 8.10 31.62 27.99 3.71 5 0.301 E // M3 20220709 Cloudy Moderate Mid-Ebb Middle 3.5 9.00 8.53 8.10 31.62 27.99 3.71 5 0.301 E // M3 20220709 Cloudy Moderate Mid-Ebb Middle 3.5 9.00 8.53 8.10 31.62 27.99 3.71 5 0.301 E // M3 20220709 Cloudy Moderate Mid-Ebb Middle 3.5 9.00 8.53 8.10 31.62 27.99 3.71 5 0.301 E // M4 20220709 Cloudy Moderate Mid-Ebb Bottom 6 8.59 8.69 8.08 31.43 27.95 3.61 4 0.264 E // M4 20220709 Cloudy Moderate Mid-Ebb Surface 1 9.40 9.06 8.27 31.97 28.19 3.99 4 0.269 SE // M4 20220709 Cloudy Moderate Mid-Ebb Bottom 6 8.59 8.69 8.08 53.18 51.50 27.99 4.02 5 0.263 SE // M4 20220709 Cloudy Moderate Mid-Ebb Bottom 6 8.59 8.69 8.08 53.18 51.50 27.99 4.02 5 0.263 SE // M4 20220709 Cloudy Moderate Mid-Ebb Bottom 6 8.59 8.59 8.59 8.59 8.59 8.59 8.59 8	M1 M1															//
M2 20220709 Cloudy Moderate Mid-Ebb Surface 1 8:21 8.15 8.25 31.86 28.31 4.36 4 0.274 SE // M2 20220709 Cloudy Moderate Mid-Ebb Surface 1 8:21 8.15 8.25 31.85 8.28 1 4.36 4 0.294 SE // M2 20220709 Cloudy Moderate Mid-Ebb Middle 6.8 8:20 8.18 8.24 31.93 28.27 4.11 4 0.294 SE // M2 20220709 Cloudy Moderate Mid-Ebb Middle 6.8 8:20 7.98 8.23 32.03 28.15 4.40 5 0.272 E // M2 20220709 Cloudy Moderate Mid-Ebb Bottom 12.6 8:19 8.03 8.25 31.85 28.21 4.35 4 0.284 E // M2 20220709 Cloudy Moderate Mid-Ebb Bottom 12.6 8:19 8.03 8.24 32.04 28.16 4.36 5 0.272 E // M3 20220709 Cloudy Moderate Mid-Ebb Surface 1 9.01 8.69 8.16 31.58 27.90 3.55 4 0.289 E // M3 20220709 Cloudy Moderate Mid-Ebb Surface 1 9.01 8.69 8.16 31.58 27.90 3.55 4 0.289 E // M3 20220709 Cloudy Moderate Mid-Ebb Surface 1 9.01 8.69 8.16 31.58 27.90 3.55 4 0.283 E // M3 20220709 Cloudy Moderate Mid-Ebb Surface 1 9.01 8.69 8.16 31.58 27.90 3.55 4 0.283 E // M3 20220709 Cloudy Moderate Mid-Ebb Middle 3.5 9.00 8.51 8.09 31.73 27.99 3.71 5 0.301 E // M3 20220709 Cloudy Moderate Mid-Ebb Surface 1 9.01 8.69 8.10 31.62 27.92 3.56 4 0.283 E // M3 20220709 Cloudy Moderate Mid-Ebb Surface 1 9.01 8.69 8.10 31.62 27.92 3.56 4 0.283 E // M3 20220709 Cloudy Moderate Mid-Ebb Surface 1 9.00 8.51 8.10 31.62 27.92 3.56 4 0.283 E // M3 20220709 Cloudy Moderate Mid-Ebb Surface 1 9.40 9.06 8.77 31.97 28.19 3.99 4 0.264 E // M4 20220709 Cloudy Moderate Mid-Ebb Surface 1 9.40 9.06 8.77 31.97 28.19 3.99 4 0.269 SE // M4 20220709 Cloudy Moderate Mid-Ebb Surface 1 9.40 9.05 8.25 31.85 27.99 4.02 5 0.263 SE // M4 20220709 Cloudy Moderate Mid-Ebb Bottom 6 8.59 8.59 8.53 8.15 31.66 28.05 3.70 4 0.264 E // M4 20220709 Cloudy Moderate Mid-Ebb Bottom 6 8.59 8.59 8.53 8.15 31.66 28.05 3.70 4 0.269 SE // M4 20220709 Cloudy Moderate Mid-Ebb Bottom 6 8.59 8.59 8.53 8.15 31.66 28.05 3.70 4 0.269 SE // M4 20220709 Cloudy Moderate Mid-Ebb Bottom 6 8.59 8.59 8.53 8.15 31.67 28.19 3.99 4 0.25 5 0.263 SE //	M1	20220709	Cloudy													//
M2 20220709 Cloudy Moderate Mid-Ebb Middle 6.8 8:20 8.18 8.24 31.93 28.27 4.11 4 0.294 \$\frac{1}{5}\$	M2	20220709	Cloudy						8.15	8.25	31.86		4.36	4	0.274 SE	/
M2 20220709 Cloudy Moderate Mid-Ebb Middle 6.8 8:20 7.98 8.23 32.03 28.15 4.40 5 0.272 E // 20220709 Cloudy Moderate Mid-Ebb Bottom 12.6 8:19 8.08 8.25 31.85 28.21 4.35 4 0.284 E // M2 20220709 Cloudy Moderate Mid-Ebb Bottom 12.6 8:19 8.03 8.24 32.04 28.16 4.36 5 0.294 SE // M3 20220709 Cloudy Moderate Mid-Ebb Surface 1 9:01 8.69 8.16 31.58 27:90 3.55 4 0.289 E // M3 20220709 Cloudy Moderate Mid-Ebb Surface 1 9:01 8.69 8.16 31.58 27:90 3.55 4 0.289 E // M3 20220709 Cloudy Moderate Mid-Ebb Middle 3.5 9:00 8.61 8.09 31.73 27:99 3.71 5 0.301 E // M3 20220709 Cloudy Moderate Mid-Ebb Middle 3.5 9:00 8.63 8.09 31.73 27:99 3.71 5 0.301 E // M3 20220709 Cloudy Moderate Mid-Ebb Bottom 6 8:59 8.69 8.08 31.43 27:92 3.56 4 0.283 E // M3 20220709 Cloudy Moderate Mid-Ebb Bottom 6 8:59 8.69 8.08 31.43 27:95 3.61 4 0.264 E // M4 20220709 Cloudy Moderate Mid-Ebb Bottom 6 8:59 8.53 8.15 31.66 28:05 3.70 4 0.201 SE // M4 20220709 Cloudy Moderate Mid-Ebb Surface 1 9:40 9:06 8.27 31.97 28:19 3.99 4 0.269 SE // M4 20220709 Cloudy Moderate Mid-Ebb Surface 1 9:40 9:06 8.27 31.67 28:19 3.99 4 0.269 SE // M4 20220709 Cloudy Moderate Mid-Ebb Surface 1 9:40 9:08 8.27 31.67 28:19 3.99 4 0.269 SE // M4 20220709 Cloudy Moderate Mid-Ebb Surface 1 9:40 9:08 8.27 31.67 28:19 3.99 4 0.269 SE // M4 20220709 Cloudy Moderate Mid-Ebb Surface 1 9:40 9:08 8.27 31.67 28:19 3.99 4 0.269 SE // M4 20220709 Cloudy Moderate Mid-Ebb Surface 1 9:40 9:23 8:27 31.67 28:19 3.99 4 0.269 SE // M4 20220709 Cloudy Moderate Mid-Ebb Surface 1 9:40 9:23 8:27 31.67 28:19 3:99 4:02 5 0.263 SE //	M2 M2						6.8									<u>'</u> ,
M2 20220709 Cloudy Moderate Mid-Ebb Bottom 12.6 8:19 8.08 8.25 31.85 28:21 4.35 4 0.284 E // M3 20220709 Cloudy Moderate Mid-Ebb Surface 11 9:01 8.69 8.16 31.58 27:90 3.55 4 0.294 SE // M3 20220709 Cloudy Moderate Mid-Ebb Surface 11 9:01 8.69 8.16 31.58 27:90 3.55 4 0.289 E // M3 20220709 Cloudy Moderate Mid-Ebb Surface 11 9:01 8.69 8.16 31.59 27:99 3.75 4 0.271 SE // M3 20220709 Cloudy Moderate Mid-Ebb Midle 3.5 9:00 8.61 8.09 31.73 27:99 3.71 5 0.301 E // M3 20220709 Cloudy Moderate Mid-Ebb Midle 3.5 9:00 8.61 8.09 31.73 27:99 3.71 5 0.301 E // M3 20220709 Cloudy Moderate Mid-Ebb Midle 3.5 9:00 8.53 8.10 31.62 27:92 3.56 4 0.283 E // M3 20220709 Cloudy Moderate Mid-Ebb Bottom 6 8:59 8.69 8.08 31.43 27:95 3.61 4 0.264 E // M4 20220709 Cloudy Moderate Mid-Ebb Bottom 6 8:59 8.63 8.15 31.66 28:05 3.70 4 0.301 E // M4 20220709 Cloudy Moderate Mid-Ebb Bottom 6 8:59 8.53 8.15 31.60 28:05 3.70 4 0.301 SE // M4 20220709 Cloudy Moderate Mid-Ebb Bottom 6 8:59 8.53 8.15 31.60 28:05 3.70 4 0.301 SE // M4 20220709 Cloudy Moderate Mid-Ebb Bottom 6 8:59 8.53 8.15 31.60 28:05 3.70 4 0.301 SE // M4 20220709 Cloudy Moderate Mid-Ebb Bottom 6 8:59 8.53 8.15 31.60 28:05 3.70 4 0.301 SE // M4 20220709 Cloudy Moderate Mid-Ebb Bottom 6 8:59 8.53 8.15 31.60 28:05 3.70 4 0.301 SE // M4 20220709 Cloudy Moderate Mid-Ebb Bottom 6 8:59 8.53 8.15 31.60 28:05 3.70 4 0.301 SE // M4 20220709 Cloudy Moderate Mid-Ebb Bottom 6 8:59 8.53 8.53 8.53 8.53 8.53 8.53 8.53 8.53	M2	20220709	Cloudy											5	0.272 E	//
M3 20220709 Cloudy Moderate Mid-Ebb Surface 1 9:01 8.69 8.16 31.58 27:90 3.55 4 0.289 E // M3 20220709 Cloudy Moderate Mid-Ebb Surface 1 9:01 8.69 8.16 31.58 27:90 3.55 4 0.271 SE // M3 20220709 Cloudy Moderate Mid-Ebb Middle 3.5 9:00 8.61 8.09 31.73 27:99 3.71 5 0.301 E // M3 20220709 Cloudy Moderate Mid-Ebb Middle 3.5 9:00 8.61 8.09 31.73 27:99 3.71 5 0.301 E // M3 20220709 Cloudy Moderate Mid-Ebb Bottom 6 8:59 8.69 8.08 31.43 27:95 3.61 4 0.283 E // M3 20220709 Cloudy Moderate Mid-Ebb Bottom 6 8:59 8.69 8.08 31.43 27:95 3.61 4 0.264 E // M4 20220709 Cloudy Moderate Mid-Ebb Surface 1 9:40 9:06 8.77 31:97 28:19 3:99 4 0.269 SE // M4 20220709 Cloudy Moderate Mid-Ebb Surface 1 9:40 9:06 8.77 31:97 28:19 3:99 4 0.269 SE // M4 20220709 Cloudy Moderate Mid-Ebb Surface 1 9:40 9:08 8.77 31:67 28:19 3:99 4 0.269 SE // M4 20220709 Cloudy Moderate Mid-Ebb Surface 1 9:40 9:23 8:27 31:67 28:19 3:99 4 0.269 SE // M4 20220709 Cloudy Moderate Mid-Ebb Surface 1 9:40 9:23 8:27 31:67 28:12 4:12 4 0.301 E // M4 20220709 Cloudy Moderate Mid-Ebb Bottom 4:6 9:39 9:05 8:25 31:85 27:99 4:02 5 0.263 SE //	M2	20220709	Cloudy	Moderate	Mid-Ebb	Bottom	12.6	8:19	8.08	8.25	31.85	28.21	4.35		0.284 E	/
M3 20220709 Cloudy Moderate Mid-Ebb Surface 1 9:01 8.55 8.14 31.59 27.99 3.59 4 0.271 \$\frac{1}{5}\$	M2 M3															//
M3 20220709 Cloudy Moderate Mid-Ebb Middle 3.5 9:00 8.61 8.09 31.73 27.99 3.71 5 0.301 E // M3 20220709 Cloudy Moderate Mid-Ebb Middle 3.5 9:00 8.61 8.09 31.73 27.99 3.71 5 0.301 E // M3 20220709 Cloudy Moderate Mid-Ebb Bottom 6 8:59 8.69 8.69 8.843 1.43 27.95 3.61 4 0.264 E // M3 20220709 Cloudy Moderate Mid-Ebb Bottom 6 8:59 8.59 8.53 8.15 31.66 28.05 3.70 4 0.301 SE // M4 20220709 Cloudy Moderate Mid-Ebb Surface 1 9:40 9.06 8.27 31.67 28.19 3.99 4 0.269 SE // M4 20220709 Cloudy Moderate Mid-Ebb Surface 1 9:40 9.08 8.27 31.67 28.19 3.99 4 0.269 SE // M4 20220709 Cloudy Moderate Mid-Ebb Surface 1 9:40 9.28 8.27 31.67 28.19 3.99 4 0.269 SE // M4 20220709 Cloudy Moderate Mid-Ebb Surface 1 9:40 9.28 8.27 31.67 28.12 4.12 4 0.301 E // M4 20220709 Cloudy Moderate Mid-Ebb Surface 1 9:40 9.39 9.05 8.25 31.85 27.99 4.02 5 0.263 SE //	M3											27.99				
M3 20220709 Cloudy Moderate Mid-Ebb Bottom 6 8:59 8.69 8.08 31.43 27.95 3.61 4 0.264 E // M3 20220709 Cloudy Moderate Mid-Ebb Bottom 6 8:59 8.59 8.53 8.15 31.66 28.05 3.70 4 0.301 SE // M4 20220709 Cloudy Moderate Mid-Ebb Surface 1 9:40 9.05 8.27 31.97 28.19 3.99 4 0.269 SE // M4 20220709 Cloudy Moderate Mid-Ebb Surface 1 9:40 9.23 8.27 31.67 28.12 4.12 4 0.301 E // M4 20220709 Cloudy Moderate Mid-Ebb Bottom 4.6 9:39 9.05 8.25 31.85 27.99 4.02 5 0.263 SE //	M3	20220709	Cloudy						8.61	8.09	31.73		3.71			/
M3 20220709 Cloudy Moderate Mid-Ebb Bottom 6 8:59 8.53 8.15 31.66 28.05 3.70 4 0.301 SE // M4 20220709 Cloudy Moderate Mid-Ebb Surface 1 9:40 9.06 8.77 31.97 28.19 3.99 4 0.269 SE // M4 20220709 Cloudy Moderate Mid-Ebb Surface 1 9:40 9.23 8.27 31.67 28.12 4.12 4 0.301 E // M4 20220709 Cloudy Moderate Mid-Ebb Bottom 4.6 9:39 9.05 8.25 31.85 27.99 4.02 5 0.263 SE //	M3 M3						3.5									<u>//</u>
M4 20220709 Cloudy Moderate Mid-Ebb Surface 1 9:40 9.06 8.27 31.97 28.19 3.99 4 0.269 SE // M4 20220709 Cloudy Moderate Mid-Ebb Surface 1 9:40 9.28 2.27 31.67 28.12 4.12 4 0.301 E // M4 20220709 Cloudy Moderate Mid-Ebb Bottom 4.6 9:39 9.05 8.25 31.85 27.99 4.02 5 0.263 SE //	M3						6							4	0.301 SE	//
M4 20220709 Cloudy Moderate Mid-Ebb Bottom 4.6 9:39 9.05 8.25 31.85 27.99 4.02 5 0.263 SE /	M4	20220709	Cloudy	Moderate	Mid-Ebb	Surface	1	9:40	9.06	8.27	31.97	28.19	3.99		0.269 SE	/_
	M4 M4						1									<u>//</u>
	M4			Moderate			4.6		9.05	8.25	31.85	28.22	4.02		0.263 SE 0.291 SE	

				1	1	1	1			l						т —
Location	Date	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time		рН	Sal (ppt)	Temp (?)	Turbidty (NTU)	SS		Current Direction	Remark
C1	20220712 20220712		Moderate Moderate	Mid-Ebb Mid-Ebb	Surface Surface	1	9:04 9:04	8.56 8.65	8.19 8.30	30.71 30.57	27.80 27.64	4.33 4.07	2.5	0.282 S 0.264 S	SE SF	1,
C1	20220712	Cloudy	Moderate	Mid-Ebb	Middle	10.05	9:03	8.59	8.19		27.60	4.24	3		SE SE	1/
C1	20220712		Moderate	Mid-Ebb	Middle	10.05	9:03	8.54	8.24		27.75	4.45	2.5	0.293	SE	/
C1 C1	20220712 20220712		Moderate Moderate	Mid-Ebb Mid-Ebb	Bottom Bottom	19.1 19.1	9:02 9:02	8.64 8.56	8.27	30.74 30.76	27.70 27.69	4.62 4.27	2.5	0.267 E 0.293 S		/
C2	20220712		Moderate	Mid-Ebb	Surface	15.1	10:11	8.25	8.30	31.44	27.70	3.28	3	0.294 5		1/
C2	20220712	Cloudy	Moderate	Mid-Ebb	Surface	1	10:11	8.39	8.30	31.50	27.64	3.35	2.5	0.286	SE .	/
C2	20220712		Moderate	Mid-Ebb	Middle	10.65	10:10	8.37	8.24	31.42	27.53	3.48	3		SE .	/
C2 C2	20220712 20220712	Cloudy	Moderate Moderate	Mid-Ebb Mid-Ebb	Middle Bottom	10.65 20.3	10:10 10:09	8.28 8.34	8.30 8.22	31.59 31.65	27.72 27.54	3.33 4.01	2.5	0.276 E 0.267 E		1,
C2	20220712	Cloudy	Moderate	Mid-Ebb	Bottom	20.3	10:09	8.32	8.27	31.03	27.73	3.80	2.5	0.268 E		1/
M1	20220712		Moderate	Mid-Ebb	Surface	1	9:38	7.96	8.33	30.76	27.84	2.56	2.5	0.280	SE	/
M1	20220712	Cloudy	Moderate	Mid-Ebb	Surface	1	9:38	8.03	8.35	30.67	27.76	2.56	3	0.283 E		/
M1 M1	20220712	Cloudy	Moderate Moderate	Mid-Ebb Mid-Ebb	Middle Middle	3.3	9:37 9:37	8.14 8.03	8.31	30.66 30.60	27.79 27.94	2.55 2.54	2.5	0.264 S 0.290 S		1,
M1	20220712		Moderate	Mid-Ebb	Bottom	5.6	9:36	7.97	8.23	30.64	27.91	2.30	2.5	0.297		1/
M1	20220712		Moderate	Mid-Ebb	Bottom	5.6	9:36	8.11	8.24	30.52	27.92	2.48	2.5	0.274 E		/
M2	20220712		Moderate	Mid-Ebb	Surface	1	9:22	7.98	8.33		27.57	3.26	2.5	0.267 E		/
M2 M2	20220712	Cloudy	Moderate Moderate	Mid-Ebb Mid-Ebb	Surface Middle	6.75	9:22 9:21	8.07 8.05	8.39		27.78 27.78	3.33 3.18	2.5	0.300 S 0.270 S		1,
M2	20220712		Moderate	Mid-Ebb	Middle	6.75	9:21	8.02	8.33	31.32	27.73	3.26	2.5	0.293		1/
M2	20220712		Moderate	Mid-Ebb	Bottom	12.5	9:20	8.12	8.27	31.37	27.65	3.34	3	0.284 E		/
M2		Cloudy	Moderate	Mid-Ebb	Bottom	12.5	9:20	8.08	8.35	31.26	27.62	3.57	3			/
M3	20220712		Moderate	Mid-Ebb	Surface	1	9:51	8.00	8.23	31.12	27.68	2.79	3			1,
M3 M3	20220712	Cloudy	Moderate Moderate	Mid-Ebb Mid-Ebb	Surface Middle	3.6	9:51 9:50	8.00 8.01	8.14	31.21 31.36	27.62 27.52	2.74 2.71	2.5	0.272 E 0.269 E	<u> </u>	1/
M3	20220712	Cloudy	Moderate	Mid-Ebb	Middle	3.6	9:50	8.00	8.16		27.52	2.83	2.5	0.293	SE	/
M3	20220712	Cloudy	Moderate	Mid-Ebb	Bottom	6.2	9:49	7.97	8.27		27.64	2.94	2.5	0.267	SE	/
M3 M4	20220712 20220712	Cloudy	Moderate Moderate	Mid-Ebb Mid-Ebb	Bottom Surface	6.2	9:49 10:34	8.04 8.76	8.23 8.32	31.40 30.75	27.54 27.88	2.69 2.31	2.5	0.298 E 0.280 E	:	1/
M4	20220712	Cloudy	Moderate	Mid-Ebb	Surface	1	10:34	8.70	8.31	30.73	27.88	2.55	2.5	0.280 0	 SE	1/
M4	20220712	Cloudy	Moderate	Mid-Ebb	Bottom	4.3	10:33	8.83	8.31	30.77	27.72	2.31	3	0.280	SE .	/
M4	20220712		Moderate	Mid-Ebb	Bottom	4.3	10:33	8.75	8.31	30.93	27.85	2.55	2.5			/
C1	20220714 20220714		Moderate Moderate	Mid-Ebb Mid-Ebb	Surface Surface	1	10:52 10:52	8.49 8.37	8.27	29.93 29.86	28.74 28.64	3.46 3.73	3		SE :	1/
C1	20220714		Moderate	Mid-Ebb	Middle	10.1	10:51	8.38	8.23	29.79	28.65	3.68	3	0.263 E		1/
C1	20220714		Moderate	Mid-Ebb	Middle	10.1	10:51	8.53	8.23	29.73	28.73	3.90	3	0.273 E		/
C1	20220714		Moderate	Mid-Ebb	Bottom	19.2	10:50	8.44	8.13	29.84	28.70	4.44	3	0.284 E		/
C1 C2	20220714		Moderate	Mid-Ebb Mid-Ebb	Bottom	19.2	10:50	8.41 8.83	8.16	30.02 29.55	28.72 28.73	4.33 3.61	5 4			1,
C2	20220714		Moderate Moderate	Mid-Ebb	Surface Surface	1	12:12 12:12	8.92	8.11	29.47	28.48	3.47	3	0.266 S 0.296 S		1/
C2	20220714		Moderate	Mid-Ebb	Middle	12.45	12:11	8.93	8.01	29.70	28.43	3.65	2.5			/
C2	20220714		Moderate	Mid-Ebb	Middle	12.45	12:11	8.94	8.08	29.58	28.68	3.50	3	0.266 E		/
C2 C2	20220714		Moderate Moderate	Mid-Ebb Mid-Ebb	Bottom	23.9	12:10 12:10	8.98 8.80	8.01	29.69 29.59	28.71 28.46	3.86 3.95	2.5	0.299 S 0.276 E		1,
M1	20220714		Moderate	Mid-Ebb	Surface	23.9	11:33	8.17	8.03	30.60	28.85	3.65	4		: E	1/
M1	20220714		Moderate	Mid-Ebb	Surface	1	11:33	8.15	8.02	30.58	28.85	3.68	4		SE	/
M1	20220714		Moderate	Mid-Ebb	Middle	3.5	11:32	8.17	8.02	30.47	28.80	3.55	4			/
M1 M1	20220714 20220714		Moderate Moderate	Mid-Ebb Mid-Ebb	Middle	3.5	11:32 11:31	8.09 8.16	8.11	30.42 30.37	28.69 28.93	3.60 3.52	3			1,
M1	20220714		Moderate	Mid-Ebb	Bottom	6	11:31	8.18	8.15	30.53	28.68	3.68	3			1/
M2	20220714		Moderate	Mid-Ebb	Surface	1	11:11	8.26	8.09		28.84	2.61	2.5	0.273		/
M2	20220714		Moderate	Mid-Ebb	Surface	1	11:11	8.33	7.96		28.80	2.62	2.5	0.294	SE	/
M2 M2	20220714		Moderate Moderate	Mid-Ebb Mid-Ebb	Middle Middle	6.55	11:10 11:10	8.28 8.28	8.08 7.95	30.69 30.64	28.64 28.68	2.79 2.98	2.5	0.287 E 0.283 E		//
M2	20220714		Moderate	Mid-Ebb	Bottom	12.1	11:09	8.33	7.98	30.58	28.66	2.77	3		 SE	1/
M2	20220714		Moderate	Mid-Ebb	Bottom	12.1	11:09	8.29	8.07	30.56	28.75	3.02	3			/
M3	20220714		Moderate	Mid-Ebb	Surface	1	11:52	8.31	8.01	30.61	28.81	2.85	3			/
M3 M3	20220714 20220714		Moderate Moderate	Mid-Ebb Mid-Ebb	Surface Middle	3.9	11:52 11:51	8.32 8.31	8.09	30.64 30.47	28.80 28.93	2.80 3.10	3	0.287 E 0.272 E		1,
M3	20220714	Sunny	Moderate	Mid-Ebb	Middle	3.9	11:51	8.29	8.02	30.47	28.81	3.12	2.5	0.272 0		1/
M3	20220714		Moderate	Mid-Ebb	Bottom	6.8	11:50	8.28	7.99	30.39	28.93	2.95	3	0.277 E		/
M3	20220714		Moderate	Mid-Ebb	Bottom	6.8	11:50	8.25	8.03	30.63	28.75	2.83	3	0.298	SE	/
M4 M4	20220714		Moderate Moderate	Mid-Ebb Mid-Ebb	Surface Surface	1	12:35 12:35	8.18 8.27	8.21	29.33 29.26	28.66 28.57	3.23 2.93	3	0.298 E 0.271 E	<u> </u>	+/-
M4	20220714		Moderate	Mid-Ebb	Bottom	4.4		8.27	8.08	29.26	28.57	3.12	3	0.271 0.291 5	- SE	1/
M4	20220714		Moderate	Mid-Ebb	Bottom	4.4	12:34	8.20	8.06	29.29	28.72	2.81	3	0.275 E		/
C1	20220716	Sunny	Moderate	Mid-Ebb	Surface	1	12:36	8.90	8.17	30.84	28.81	4.97	4	0.292	SE	/
C1 C1	20220716 20220716		Moderate Moderate	Mid-Ebb Mid-Ebb	Surface Middle	9.7	12:36 12:35	8.78 8.88	8.12		28.86 28.82	4.86 5.19	2.5 2.5	0.280 S 0.265 S		+/
C1	20220716		Moderate		Middle	9.7	12:35	8.88	8.13		28.82	5.19	2.5		-	1/
C1	20220716	Sunny	Moderate	Mid-Ebb	Bottom	18.4	12:34	8.92	8.12	30.80	28.71	5.44	3	0.265 E		/
C1	20220716		Moderate	Mid-Ebb	Bottom	18.4	12:34	8.84	8.18	31.07	28.88	5.32	6			/
C2 C2	20220716 20220716		Moderate Moderate	Mid-Ebb Mid-Ebb	Surface Surface	1	11:52 11:52	9.30 9.32	8.28	31.35 31.25	28.84 29.03	4.14 4.28	6			+/
C2 C2	20220716		Moderate	Mid-Ebb	Middle	10.65	11:52	9.32	8.23	31.25	29.03	4.48	4			1/
C2	20220716	Sunny	Moderate	Mid-Ebb	Middle	10.65	11:51	9.28	8.31	31.24	28.86	4.56	4	0.287	SE	/
C2	20220716		Moderate	Mid-Ebb		20.3	11:50	9.29	8.28		28.99	4.99	17			/
M1	20220716 20220716		Moderate Moderate	Mid-Ebb Mid-Ebb	Bottom Surface	20.3	11:50 13:13	9.22 8.86	8.20		28.91 28.81	5.15 4.20	16 2.5	0.282 S 0.297 S		1/
M1	20220716		Moderate	Mid-Ebb	Surface	1	13:13	9.00	8.20		28.81	3.89	2.5	0.297 5		1/
M1	20220716	Sunny	Moderate	Mid-Ebb	Middle	3.2	13:12	9.02	8.18	30.50	28.82	4.00	3	0.274	SE .	/
M1	20220716		Moderate	Mid-Ebb	Middle	3.2	13:12	9.02	8.12		29.01	3.91	2.5			/
M1	20220716		Moderate	Mid-Ebb	Bottom	5.4	13:11	8.87	8.11	30.53	28.86	4.07	2.5		ie .	1/
M1 M2	20220716 20220716		Moderate Moderate	Mid-Ebb Mid-Ebb	Bottom Surface	5.4	13:11 12:54	8.87 8.93	8.15 8.13		28.86 29.15	4.19 4.51	2.5 4)	1/
M2	20220716		Moderate	Mid-Ebb	Surface	1	12:54	8.81	8.14		29.03	4.36	3			/_
M2	20220716	Sunny	Moderate	Mid-Ebb	Middle	6.25	12:53	8.96	8.12	30.90	29.09	4.41	6	0.279 E		/
M2	20220716		Moderate	Mid-Ebb	Middle	6.25	12:53	8.81	8.16	30.86	29.18	4.33	8			1/
M2 M2	20220716 20220716		Moderate Moderate	Mid-Ebb Mid-Ebb	Bottom Bottom	11.5 11.5	12:52 12:52	8.89 8.76	8.16	30.87 30.80	29.00 29.06	4.25 4.24	3 4			1/
M3	20220716		Moderate	Mid-Ebb	Surface	11.5	11:32	9.31	8.11	30.80	28.84	4.24	4			1/
M3	20220716	Sunny	Moderate	Mid-Ebb	Surface	1	11:32	9.35	8.25	30.69	28.95	4.41	4	0.295 E		/
M3	20220716	Sunny	Moderate	Mid-Ebb	Middle	3.85	11:31	9.40	8.19	30.71	28.95	4.11	2.5	0.272 E		/
M3	20220716		Moderate	Mid-Ebb	Middle	3.85	11:31	9.49	8.22		28.88	4.02	2.5	0.268 E		1,
M3 M3	20220716 20220716		Moderate Moderate	Mid-Ebb Mid-Ebb	Bottom	6.7	11:30 11:30	9.36 9.51	8.22	30.58 30.67	28.77 28.90	4.00 4.04	2.5 2.5	0.284 E 0.264 E		1/
M4	20220716		Moderate	Mid-Ebb	Surface	1	12:13	8.57	8.21		28.85	3.90	3			//
M4	20220716	Sunny	Moderate	Mid-Ebb	Surface	1	12:13	8.64	8.20	31.17	28.96	4.27	3	0.285 E		/
M4	20220716 20220716		Moderate	Mid-Ebb		4.7	12:12	8.53	8.25		28.85	3.98	4			/
M4		I Villiania	Moderate	Mid-Ebb	IBottom	4.7	12:12	8.68	8.24	31.24	28.98	3.91	8	0.299	sE.	1/

Section Content Cont				1	1											
Company Comp							Depth (m)			_				SS		urrent Direction Remark
Col.							1							3	0.263 S 0.283 S	
1.				t			10.7									
Columb	_															
22 2022-09 Douby Noveletz Method Parker 1															0.280 S 0.305 S	
Colon							1								0.282 S	
Company Company Américane Macford Matter 170 207 171 213 171 18.0 4.00 7.0					Mid-Flood	Surface	1								0.301 S	
2															0.282 S 0.279 S	
Columbia Marchest Marchest															0.266 S	
STATE STAT					Mid-Flood	Bottom	24.3								0.290 S	
State							1								0.264 S 0.273 E	E /
Mathematics							3.4			_						/
Mode															0.292 E	/
Mathematics Membros															0.284 S 0.297 E	E /
Mathematics Membra Membr							3.8								0.270 E	/
Moderate Moderate	M2	20220719	Cloudy		Mid-Flood	Surface	1	9:11	8.79	8.23	31.35	28.26	3.75	3	0.289 E	/
20220019 Cauly Moderate Mode Read Sections 11.6 90.0 17.9 81.9 31.32 31.11 3.50 2.5																- /
10.00000000000000000000000000000000000																/
Math Math Medicard Medica	M2	20220719	Cloudy	Moderate	Mid-Flood	Bottom	11.6	9:09	8.63	8.25	31.54	28.30	3.49		0.294 E	/
Mathematics Medicarde Model Plance Model Pl							1									E /
No.				1											0.263 E 0.298 E	//
Section Section Moderate Med-Recog Bottom G. B. Section Sect	M3	20220719	Cloudy	Moderate	Mid-Flood	Middle	3.8	8:31	8.04	8.13	31.36	28.52	3.12	3	0.274 S	
No.																
Modern M							6.6								0.304 S 0.284 S	
Max 20229712 County Moderate Mode Plane Mode	M4	20220719	Cloudy	Moderate	Mid-Flood	Surface	1	9:54	8.53	8.21	30.09	28.09	3.42	2.5	0.298 S	E /
C1															0.272 S	
C1							4.6								0.276 S 0.274 E	
C1							1				30.40				0.294 E	· //
C1															0.293 S	
C1 20220721 (Couly Moderate Mode Bottom 20 15:57 8:80 8:27 30:26 28:94 4:98 2.5 (C2 20220721 (Couly Moderate Mode Bottom 1 17:09 8:21 8:30 3:18:0 28:26 13:00 3.0 (C2 20:20) (Couly Moderate Mode Bottom 1 17:09 8:21 8:30 3:18:0 28:26 3:30 3:30 3:30 3:30 3:30 28:26 3:30 3:30 3:30 3:30 3:30 3:30 3:30 3:3															0.290 S 0.268 S	
C2 20220721 Cloudy															0.278 S	
C2 20220721 Cloudy							1								0.271 E	/
C2 20220721 Couly Moderate Mol-Esb Bottom 2.35 1.706 8.22 8.31 3.907 28.82 3.58 2.5							12 25								0.298 S 0.275 S	
2022071 Cloudy Moderate Mol-Stab Surface 1 16:34 8.38 8.38 2.3 2.5															0.265 E	/
Mil							23.5		8.21						0.299 E	/
MI 2022072 Coudy Moderate Mode bib Moderate 1 16:34 8.49 8.16 30.71 28.81 3.19 2.5							23.5							_	0.290 S 0.284 S	
Mil							1								0.289 S	
M1	M1	20220721		Moderate	Mid-Ebb	Middle		16:33	8.51	8.16	30.71	28.93	3.48	3	0.266 S	E /
M1															0.273 S 0.277 E	E /
M2																E /
M2 20220721 Cloudy Moderate Mid-Ebb Midel 6.9 16:15 9.07 8:22 30.86 28:57 4.01 25	M2			Moderate	Mid-Ebb	Surface	1		9.09	8.21			4.37		0.293 S	
M2 2022/721 Cloudy Moderate Mid-Ebb Mid-Ebb Softom 12.8 16.14 9.01 8.21 30.91 28.67 4.31 3 3 3 3 3 3 3 3 3							1									
M2 20220721 (Coudy Noderate Mid-Ebb Bottom 11.8 5614 9.01 8.21 30.91 28.71 4.40 2.5 M3 20220721 (Coudy Noderate Mid-Ebb Bottom 11.8 1614 9.01 82.1 8.31 30.91 28.71 4.40 2.5 M3 20220721 (Coudy Noderate Mid-Ebb Surface 1 1651 8.95 8.33 30.09 28.86 3.12 2.5 M3 20220721 (Coudy Noderate Mid-Ebb Bottom 1.6 1.6 1.6 1.8																
M3 20220721 Cloudy Moderate Mid-Ebb Surface 1 16:51 8.87 8.37 3.30 30.9 28.86 3.12 2.5		20220721	Cloudy	Moderate												
M3 20220721 Cloudy Moderate Mid-Ebb Midelle 3.95 16:50 8.79 8.37 30.49 28.91 3.31 2.5 M3 20220721 Cloudy Moderate Mid-Ebb Midelle 3.95 16:50 8.79 8.35 30.21 28.88 3.29 2.5 M3 20220721 Cloudy Moderate Mid-Ebb Midelle 3.95 16:50 8.79 8.35 3.01 28.88 3.29 2.5 M3 20220721 Cloudy Moderate Mid-Ebb Stortom 6.9 16:49 8.98 8.35 30.21 28.88 3.26 2.5 M3 20220721 Cloudy Moderate Mid-Ebb Stortom 6.9 16:49 8.98 8.35 30.66 28.84 3.28 2.5 M4 20220721 Cloudy Moderate Mid-Ebb Stortom 6.9 16:49 8.98 8.35 30.66 28.84 3.28 2.5 M4 20220721 Cloudy Moderate Mid-Ebb Stortom 6.9 16:49 8.98 8.35 30.66 28.84 3.28 2.5 M4 20220721 Cloudy Moderate Mid-Ebb Stortom 6.9 16:49 8.98 8.35 30.52 28.88 3.22 2.5 M4 20220721 Cloudy Moderate Mid-Ebb Stortom 4.4 17:31 9.13 8.18 30.52 28.82 2.9 2.5 M4 20220721 Cloudy Moderate Mid-Ebb Stortom 4.4 17:30 9.79 8.10 30.06 28.77 3.06 2.5 M4 20220723 Cloudy Moderate Mid-Ebb Stortom 4.4 17:30 9.79 8.10 30.01 28.77 3.06 2.5 M4 20220723 Stortom Moderate Mid-Ebb Stortom 4.4 17:30 9.71 8.20 30.31 28.81 2.98 2.5 M4 20220723 Stortom Moderate Mid-Ebb							12.8								0.301 S 0.293 S	
M3							1								0.263 E	
M3		20220721	Cloudy							_					0.269 S	
M3															0.297 E 0.297 S	
M4															0.297 S	
M4	M4	20220721	Cloudy	Moderate	Mid-Ebb	Surface	1	17:31	9.13	8.18	30.52	28.89	3.22	2.5	0.281 S	E /
Mathematical Midelian Midel							1								0.293 S 0.275 S	
C1															0.275 S 0.276 E	/
C1 20220723 Sunny Moderate Mid-Ebb Middle 10.7 14:03 9.01 8.29 31.29 29.16 3.67 2.5 C1 20220723 Sunny Moderate Mid-Ebb Bottom 20.4 14:02 8.93 8.31 31.39 29.12 3.88 3 C1 20220723 Sunny Moderate Mid-Ebb Bottom 20.4 14:02 8.93 8.31 31.39 29.12 3.88 3 C2 20220723 Sunny Moderate Mid-Ebb Bottom 20.4 14:02 9.02 8.26 31.51 28.94 4.20 2.25 C2 20220723 Sunny Moderate Mid-Ebb Surface 1 15:24 9.03 8.25 30.65 29.06 3.05 3 C2 20220723 Sunny Moderate Mid-Ebb Middle 11.75 15:23 9.07 8.25 30.61 29.00 3.17 2.5 C2 20220723 Sunny Moderate Mid-Ebb	C1	20220723	Sunny	Moderate	Mid-Ebb	Surface	1	14:04	9.02	8.33	31.37	29.00	3.51	2.5	0.270 S	
C1 202220723 Sunny Moderate Mid-Ebb Middle 1.07 14:03 8.89 8.31 3.139 29:12 3.88 3 C1 202220723 Sunny Moderate Mid-Ebb Mid-Ebb Bottom 20.4 14:02 9.02 8.56 31.51 28:94 4.34 3 C2 202220723 Sunny Moderate Mid-Ebb Surface 1 15:24 9.03 8.27 30.42 29:11 2.92 3 C2 20220723 Sunny Moderate Mid-Ebb Mid-Ebb Middle 11.75 15:23 9.07 8.36 30.61 29:10 3.24 4 C2 20220723 Sunny Moderate Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Sunny Moderate Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Mid-Ebb Sunny No.59 9.17 8.25 30.65 29.06 3.07 29.18 3.39 2.5 C2 202220723 Sunny Moderate Mid-Ebb Mid-Ebb Sunny Mid-Ebb Mid-Ebb Sunny Mid-Ebb Sunny Moderate Mid-Ebb Sunface 1 14:41 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>0.290 S</td><td>E /</td></t<>							1								0.290 S	E /
C1																//
C2 20220723 Sunny Moderate Mid-Ebb Surface 1 15:24 9.03 8.25 30.65 29.06 3.05 3	C1	20220723	Sunny	Moderate	Mid-Ebb	Bottom	20.4	14:02	8.93	8.30	31.54	28.94	4.34	3	0.293 E	/
C2							20.4									E /
C2 20220723 Sunny Moderate Mid-Ebb Middle 11.75 15:23 9.07 8.36 30.61 29.10 3.24 4							1									E //
C2 20220723 Sunny Moderate Mid-Ebb Bottom 22.5 15:22 9.12 8.37 30.73 29.18 3.39 2.5 C2 20220723 Sunny Moderate Mid-Ebb Bottom 22.5 15:22 9.12 8.37 30.73 29.18 3.99 2.5 M1 20220723 Sunny Moderate Mid-Ebb Surface 1 14:41 8.42 8.27 30.33 29.03 2.56 3 M1 20220723 Sunny Moderate Mid-Ebb Surface 1 14:41 8.42 8.27 30.33 29.03 2.56 3 M1 20220723 Sunny Moderate Mid-Ebb Middle 3.5 14:40 8.47 8.31 30.31 29.25 2.46 2.5 M1 20220723 Sunny Moderate Mid-Ebb Middle 3.5 14:40 8.43 8.34 30.47 29.26 2.68 3 M1 20220723 Sunny Moderate Mid-Ebb Mid-Ebb Surface 1 14:39 8.33 8.29	C2	20220723	Sunny	Moderate	Mid-Ebb	Middle		15:23	9.07	8.36	30.61	29.10	3.24	4	0.288 S	E /
C2 20220723 Sunny Moderate Mid-Ebb Surface 1 1 14:41 8.42 8.27 30.33 29.03 2.56 3 M1 20220723 Sunny Moderate Mid-Ebb Surface 1 1 14:41 8.42 8.27 30.33 29.03 2.56 3 M1 20220723 Sunny Moderate Mid-Ebb Middle 3.5 14:40 8.47 8.31 30.31 29.03 2.56 3 M1 20220723 Sunny Moderate Mid-Ebb Middle 3.5 14:40 8.47 8.31 30.33 29.25 2.46 2.5 M1 20220723 Sunny Moderate Mid-Ebb Middle 3.5 14:40 8.43 8.34 30.47 29.26 2.68 3 M1 20220723 Sunny Moderate Mid-Ebb Bottom 6 14:39 8.33 8.29 30.29 29.04 2.61 2.5 M1 20220723 Sunny Moderate Mid-Ebb Surface 1 14:23 8.55 8.12 30.84 29.22 <td></td>																
M1																
M1 20220723 Sunny Moderate Mid-Ebb Middle 3.5 14:40 8.47 8.31 30.33 29.25 2.46 2.5	M1	20220723	Sunny	Moderate	Mid-Ebb	Surface	1	14:41	8.42	8.27	30.33	29.03	2.56	3	0.263 S	E /
M1							1									
M1															0.291 S 0.287 E	/
M2 20220723 Sunny Moderate Mid-Ebb Surface 1 14:23 8.55 8.12 30.84 29.22 3.07 3 M2 20220723 Sunny Moderate Mid-Ebb Surface 1 14:23 8.55 8.12 30.84 29.22 3.07 3 M2 20220723 Sunny Moderate Mid-Ebb Midle 6.9 14:22 8.56 8.16 30.90 29.17 3.06 3 M2 20220723 Sunny Moderate Mid-Ebb Bottom 12.8 14:21 8.45 8.15 30.66 29.22 2.96 3 M2 20220723 Sunny Moderate Mid-Ebb Bottom 12.8 14:21 8.45 8.18 30.61 29.22 2.96 3 M3 20220723 Sunny Moderate Mid-Ebb Sourface 1 15:04 8.83 8.13 30.65 29.25 2.83 3 M3 20220723 Sunny Moderate Mid-Ebb	M1	20220723	Sunny	Moderate	Mid-Ebb	Bottom	6	14:39	8.33	8.29	30.29	29.04	2.61	2.5	0.285 E	/
M2 20220723 Sunny Moderate Mid-Ebb Surface 1 14:23 8.45 8.14 30.90 29.25 2.93 3 M2 20220723 Sunny Moderate Mid-Ebb Middle 6.9 14:22 8.66 8.15 30.66 29.22 2.96 3 M2 20220723 Sunny Moderate Mid-Ebb Bottom 12.8 14:21 8.56 8.15 30.61 29.06 2.93 3 M2 20220723 Sunny Moderate Mid-Ebb Surface 1 15:04 8.83 8.15 30.61 29.06 2.93 3 M3 20220723 Sunny Moderate Mid-Ebb Surface 1 15:04 8.83 8.13 30.86 29.23 2.39 2.5 M3 20220723 Sunny Moderate Mid-Ebb Surface 1 15:04 8.83 8.13 30.86 29.23 2.39 2.5 M3 20220723 Sunny Moderate Mid-Ebb							6									/
M2 20220723 Sunny Moderate Mid-Ebb Middle 6.9 14:22 8.56 8.16 30.90 29:17 3.06 3 M2 20220723 Sunny Moderate Mid-Ebb Middle 6.9 14:22 8.46 8.15 30.66 29:22 2.56 3 M2 20220723 Sunny Moderate Mid-Ebb Bottom 12.8 14:21 8.45 8.18 30.65 29:25 2.83 3 M3 20220723 Sunny Moderate Mid-Ebb Surface 1 15:04 8.83 8.13 30.86 29:25 2.83 3 M3 20220723 Sunny Moderate Mid-Ebb Mid-Ebb Midele 3.95 15:04 8.88 8.13 30.86 29:23 2.39 2.5 M3 20220723 Sunny Moderate Mid-Ebb Mid-Ebb Midele 3.95 15:03 8.95 8.23 30.87 29:26 2							1									
M2 20220723 Sunny Moderate Mid-Ebb Bottom 12.8 14-21 8.58 8.15 30.61 29.06 2.93 3 M2 20220723 Sunny Moderate Mid-Ebb Sutrace 1 15:04 8.83 8.13 30.65 29.25 2.83 3 M3 20220723 Sunny Moderate Mid-Ebb Surface 1 15:04 8.83 8.13 30.65 29.23 2.29 2.5 M3 20220723 Sunny Moderate Mid-Ebb Surface 1 15:04 8.89 8.16 31.16 29.29 2.48 3 M3 20220723 Sunny Moderate Mid-Ebb Mid-Ebb 3.95 15:03 8.89 8.16 31.16 29.29 2.48 3 M3 20220723 Sunny Moderate Mid-Ebb Mid-Ebb 3.95 15:03 8.84 8.14 31.23 29.25 2.22 3 M3 20220723 Sunny Moderate Mid-Ebb	M2	20220723	Sunny	Moderate	Mid-Ebb	Middle		14:22	8.56	8.16	30.90	29.17	3.06	3	0.301 E	/
M2 20220723 Sunny Moderate Mid-Ebb Sottom 12.8 14:21 8.45 8.18 30.65 29.25 2.83 3 M3 20220723 Sunny Moderate Mid-Ebb Surface 1 15:04 8.83 8.13 3 0.86 29.23 2.99 2.24 3 M3 20220723 Sunny Moderate Mid-Ebb Mid-Ebb Midle 3.95 15:03 8.95 8.23 30.87 29.26 2.22 3 M3 20220723 Sunny Moderate Mid-Ebb Midle 3.95 15:03 8.84 8.14 31.23 29.25 2.22 3 M3 20220723 Sunny Moderate Mid-Ebb Bottom 6.9 15:02 8.91 8.18 31.13 29.25 2.23 3 M3 20220723 Sunny Moderate Mid-Ebb Bottom 6.9 15:02 8.96 8.14 30.96 29.25 2.25 <td></td> <td>0.279 S</td> <td></td>															0.279 S	
M3 20220723 Sunny Moderate Mid-Ebb Surface 1 15:04 8.83 8.13 30.86 29.23 2.39 2.5 M3 20220723 Sunny Moderate Mid-Ebb Surface 1 15:04 8.89 8.16 31.16 29.29 2.48 3 M3 20220723 Sunny Moderate Mid-Ebb Midle 3.95 15:03 8.98 8.23 30.87 29.26 2.22 3 M3 20220723 Sunny Moderate Mid-Ebb Midle 3.95 15:03 8.84 8.14 31.23 29.25 2.32 3 M3 20220723 Sunny Moderate Mid-Ebb Bottom 6.9 15:02 8.91 8.18 31.13 29.15 2.18 2.5 M3 20220723 Sunny Moderate Mid-Ebb Bottom 6.9 15:02 8.86 8.14 30.96 29.26 2.25 2.25 2.5																
M3 20220723 Sunny Moderate Mid-Ebb Surface 1 15:04 8.89 8.16 31.16 29.29 2.48 3 M3 20220723 Sunny Moderate Mid-Ebb Middle 3.95 15:03 8.95 8.23 30.87 29.26 2.22 3 M3 20220723 Sunny Moderate Mid-Ebb Middle 3.95 15:03 8.84 8.1 31.23 29.25 2.22 3 M3 20220723 Sunny Moderate Mid-Ebb Bottom 6.9 15:02 8.91 8.18 31.13 29.15 2.18 2.5 M3 20220723 Sunny Moderate Mid-Ebb Bottom 6.9 15:02 8.86 8.14 30.96 29.26 2.25 2.5	M3						1				30.86	29.23			0.287 S	
M3 20220723 Sunny Moderate Mid-Ebb Middle 3.95 15:03 8.84 8.14 3.123 29.25 2.32 3 M3 20220723 Sunny Moderate Mid-Ebb Bottom 6.9 15:02 8.91 8.18 3.1.3 29.15 2.18 2.5 M3 20220723 Sunny Moderate Mid-Ebb Bottom 6.9 15:02 8.86 8.14 30.96 29.26 2.25 2.5							1									/
M3 20220723 Sunny Moderate Mid-Ebb Bottom 6.9 15:02 8.91 8.18 31.13 29.15 2.18 2.5 M3 20220723 Sunny Moderate Mid-Ebb Bottom 6.9 15:02 8.86 8.14 30.96 29.26 2.25 2.5																
M3 20220723 Sunny Moderate Mid-Ebb Bottom 6.9 15:02 8.86 8.14 30.96 29.26 2.25 2.5					Mid-Ebb											
1844 2022072231Suppy Moderate Mid-Ehh-ISurface 1 45-50 0-47 0-47 2024 2024 2024 2024	M3	20220723	Sunny	Moderate	Mid-Ebb	Bottom		15:02	8.86	8.14	30.96	29.26	2.25	2.5	0.294 S	E /
M4 20220723 Sunny Moderate Mid-Ebb Surface 1 15:50 8.47 8.15 30.34 29.26 3.69 2.5 M4 20220723 Sunny Moderate Mid-Ebb Surface 1 15:50 8.56 8.19 30.34 29.32 3.68 2.5	M4 M4			Moderate Moderate		Surface	1	15:50 15:50	8.47 8.56	8.15	30.34	29.26	3.69	2.5	0.285 E 0.284 S	
							4.4									
M4 20220723 Sunny Moderate Mid-Ebb Bottom 4.4 15:49 8.47 8.18 30.18 29.16 3.69 4	M4						4.4	15:49	8.47	8.18	30.18	29.16				E /

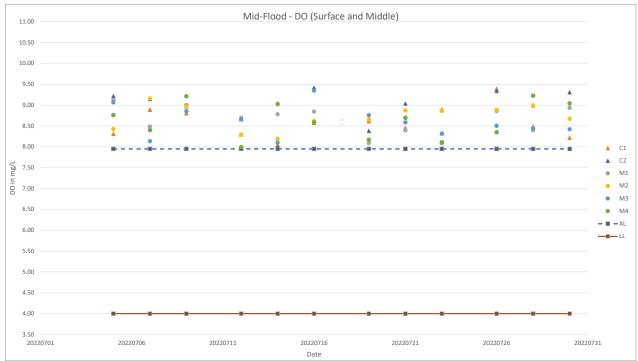
	l			1												Т
Location	Date	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time		рН	Sal (ppt)	Temp (?)	Turbidty (NTU)	SS	Current Velocity (m/s)	Current Direction	Remark
C1	20220726		Moderate	Mid-Ebb	Surface	1	9:27	8.67	8.18	28.98	30.02	3.92	5	0.20	E	-/,
C1 C1	20220726 20220726		Moderate Moderate	Mid-Ebb Mid-Ebb	Surface Middle	11.05	9:27 9:26	8.56 8.71	8.18	29.05 28.66	30.05 30.02	3.45 4.10	3			1/
C1	20220726		Moderate	Mid-Ebb	Middle	11.05	9:26	8.47	8.23		30.04	4.11	3			//
C1	20220726		Moderate		Bottom	21.1	9:25	8.51	8.20		30.06	4.09	3		E	/
C1 C2	20220726 20220726		Moderate Moderate	Mid-Ebb Mid-Ebb	Bottom Surface	21.1	9:25 10:44	8.57 8.99	8.21	28.86 28.76	30.04 30.11	4.36 2.77	3 4			1/
C2	20220726		Moderate	Mid-Ebb	Surface	1	10:44	8.96	8.16		30.11	2.85	4			1/
C2	20220726		Moderate	Mid-Ebb	Middle	12.9	10:43	8.86	8.17	28.88	29.98	2.90	4			/
C2	20220726	Sunny	Moderate	Mid-Ebb	Middle	12.9	10:43	9.08	8.11	28.60	30.12	3.15	3		E	/
C2 C2	20220726 20220726	Sunny	Moderate	Mid-Ebb Mid-Ebb	Bottom	24.8	10:42 10:42	9.02 9.04	8.13	28.89 28.78	30.02 30.07	3.48 3.32	4		SE	-//
M1	20220726	Sunny	Moderate Moderate	Mid-Ebb	Bottom Surface	24.8	10:42	8.65	8.11		30.07	3.32	3		SE	1/
M1	20220726	Sunny	Moderate	Mid-Ebb	Surface	1	10:01	8.71	8.15	29.35	30.13	3.41	3			/
M1	20220726		Moderate	Mid-Ebb	Middle	3.3	10:00	8.73	8.13	29.24	30.10	3.37	5			/
M1 M1	20220726 20220726		Moderate	Mid-Ebb Mid-Ebb	Middle Bottom	3.3 5.6	10:00 9:59	8.70 8.80	8.14		30.21 30.24	3.39 3.16	3			-/,
M1	20220726		Moderate Moderate	Mid-Ebb	Bottom	5.6	9:59	8.86	8.14		30.24	3.56	5		SF.	+/-
M2	20220726		Moderate	Mid-Ebb	Surface	1	9:45	9.31	8.24		29.82	2.44	4		SE	/
M2	20220726		Moderate	Mid-Ebb	Surface	1	9:45	9.21	8.24		29.88	2.55	4			/
M2 M2	20220726		Moderate	Mid-Ebb	Middle Middle	6.7	9:44 9:44	9.32	8.26		29.96	2.37	2.5		SE	-//
M2	20220726 20220726		Moderate Moderate	Mid-Ebb Mid-Ebb	Bottom	6.7 12.4	9:44	9.38 9.39	8.27	28.91	29.98 29.79	2.33 2.13	2.5		SF	+/-
M2	20220726		Moderate	Mid-Ebb	Bottom	12.4	9:43	9.28	8.23	28.92	29.86	2.50	2.5			//
M3	20220726	Sunny	Moderate	Mid-Ebb	Surface	1	10:19	9.09	8.16		29.91	3.61	3		E	/
M3	20220726	Sunny	Moderate	Mid-Ebb	Surface	1	10:19	8.78	8.11	28.38	29.89	3.52	2.5		E	1,
M3 M3	20220726 20220726	Sunny	Moderate Moderate	Mid-Ebb Mid-Ebb	Middle Middle	3.65	10:18 10:18	8.96 9.04	8.18	28.27 28.46	29.91 30.01	3.54 3.63	2.5		E	1/
M3	20220726	Sunny	Moderate	Mid-Ebb	Bottom	6.3	10:17	8.84	8.15		29.89	3.44	4		SE	1/
M3	20220726	Sunny	Moderate	Mid-Ebb	Bottom	6.3	10:17	8.96	8.15	28.19	29.91	3.65	3	0.270	SE	/
M4 M4	20220726	Sunny	Moderate	Mid-Ebb	Surface	1	11:09	9.04	8.23	29.08	30.11	2.21	3		E E	1/
M4 M4		Sunny	Moderate Moderate	Mid-Ebb Mid-Ebb	Surface Bottom	3.5	11:09 11:08	8.91 8.92	8.22	29.15 29.21	30.06 29.99	2.19 1.98	3		SE	1/
M4	20220726		Moderate	Mid-Ebb	Bottom	3.5	11:08	8.97	8.23	28.98	30.01	2.10	3	0.269		/
C1	20220728	Sunny	Moderate	Mid-Ebb	Surface	1	10:28	8.55	8.17	30.83	29.18	3.81	8		E	/
C1	20220728		Moderate	Mid-Ebb	Surface	102	10:28	8.48	8.16		29.16	4.03	9		SE	-//
C1	20220728	Sunny	Moderate Moderate	Mid-Ebb Mid-Ebb	Middle Middle	10.3	10:27 10:27	8.59 8.61	8.16	31.04 30.90	29.37 29.20	4.31 4.28	2.5		SE	1/
C1	20220728		Moderate	Mid-Ebb	Bottom	19.6	10:26	8.42	8.20		29.24	4.96	2.5		E	//
C1	20220728		Moderate	Mid-Ebb	Bottom	19.6	10:26	8.43	8.19		29.37	4.79	2.5		SE	/
C2 C2	20220728		Moderate Moderate	Mid-Ebb Mid-Ebb	Surface Surface	1	11:39 11:39	8.76 8.71	8.30	30.77 30.79	29.06 28.96	3.49 3.38	5 6		E	-/,
C2	20220728	Sunny	Moderate	Mid-Ebb	Middle	12.65	11:39	8.65	8.23	30.79	28.96	3.38	2.5		SE SF	+/-
C2	20220728	Sunny	Moderate	Mid-Ebb	Middle	12.65	11:38	8.79	8.24	30.62	29.00	3.54	2.5		SE	1/
C2	20220728	Sunny	Moderate	Mid-Ebb	Bottom	24.3	11:37	8.81	8.29		28.94	3.95	3	0.276	E	/
C2	20220728	Sunny	Moderate	Mid-Ebb	Bottom	24.3	11:37	8.69	8.26		28.98	3.88	2.5		E	-/,
M1 M1	20220728	Sunny	Moderate Moderate	Mid-Ebb Mid-Ebb	Surface Surface	1	11:03 11:03	9.39 9.20	8.30		29.09 29.01	3.94 4.22	4		F SE	-//
M1	20220728		Moderate	Mid-Ebb	Middle	3.25	11:02	9.37	8.29		29.03	4.07	3		E	/
M1	20220728		Moderate	Mid-Ebb	Middle	3.25	11:02	9.37	8.29		29.10	4.34	4			/
M1	20220728		Moderate	Mid-Ebb	Bottom	5.5	11:01	9.31	8.27		29.11	4.00	5			-/,
M1 M2	20220728	Sunny	Moderate Moderate	Mid-Ebb Mid-Ebb	Bottom Surface	5.5	11:01 10:45	9.26 8.76	8.30		29.21 29.09	4.20 3.38	5			1,
M2	20220728		Moderate	Mid-Ebb	Surface	1	10:45	8.60	8.28		29.19	3.77	6			1/
M2	20220728		Moderate		Middle	6.3	10:44	8.64	8.23		29.13	3.55	6		E	/
M2	20220728		Moderate	Mid-Ebb	Middle	6.3	10:44	8.77	8.29		29.12	3.38	6			1,
M2 M2	20220728 20220728		Moderate Moderate	Mid-Ebb Mid-Ebb	Bottom Bottom	11.6 11.6	10:43 10:43	8.72 8.76	8.25	30.72 30.73	29.22 29.19	3.31 3.30	5			1/
M3	20220728		Moderate	Mid-Ebb	Surface	1	11:22	8.74	8.28	30.70	29.33	3.99	6			/
M3	20220728	Sunny	Moderate	Mid-Ebb	Surface	1	11:22	8.69	8.31	30.56	29.22	4.14	4			/
M3	20220728	Sunny	Moderate	Mid-Ebb	Middle	3.5	11:21	8.64	8.30	30.63 30.70	29.32 29.20	3.81	4 5		SE	1,
M3 M3	20220728	Sunny	Moderate Moderate	Mid-Ebb Mid-Ebb	Middle Bottom	5.5	11:21 11:20	8.80 8.81	8.27	30.70	29.20	4.08 3.86	2.5		E	1/
M3	20220728	Sunny	Moderate	Mid-Ebb	Bottom	6	11:20	8.76	8.27	30.62	29.27	4.17	2.5		SE	1/
M4	20220728	Sunny	Moderate	Mid-Ebb	Surface	1	11:56	9.29	8.09		29.12	3.48	2.5			/
M4	20220728		Moderate	Mid-Ebb	Surface	1	11:56	9.22	8.10	30.51	29.25	3.62	2.5		SE	1/
M4 M4	20220728 20220728		Moderate Moderate	Mid-Ebb Mid-Ebb	Bottom Bottom	4.3	11:55 11:55	9.26 9.23	8.11		29.09 29.22	3.41 3.27	3 4			1/
C1	20220720		Moderate	Mid-Ebb		1	11:39	9.28	8.29		29.86	3.58	2.5			/_
C1	20220730	Cloudy	Moderate	Mid-Ebb	Surface	1	11:39	9.38	8.33	28.62	29.85	3.44	2.5	0.265	E	/
C1	20220730		Moderate		Middle	9.65	11:38	9.26	8.24		29.80 29.88	3.82	2 5			1/,
C1 C1	20220730 20220730		Moderate Moderate	Mid-Ebb Mid-Ebb	Middle Bottom	9.65 18.3	11:38 11:37	9.30 9.29	8.26		29.88	3.82 3.95	2.5			1/
C1	20220730		Moderate		Bottom	18.3	11:37	9.28	8.33		29.73	3.73	3			/
C2	20220730		Moderate		Surface	1	12:47	8.76	8.23		29.84	2.90	3		SE	/
C2	20220730		Moderate	Mid-Ebb	Surface	1 122	12:47	8.71 8.70	8.17	28.12	29.85	3.09	2.5		E SE	1/
C2 C2	20220730 20220730		Moderate Moderate		Middle Middle	12.2 12.2	12:46 12:46	8.70 8.81	8.18		29.89 29.75	3.31 3.27	3			1/
C2	20220730	Cloudy	Moderate	Mid-Ebb	Bottom	23.4	12:45	8.81	8.17	27.95	29.87	3.38	3	0.297	SE	/
C2	20220730	Cloudy	Moderate	Mid-Ebb	Bottom	23.4	12:45	8.69	8.20		29.77	3.23	2.5	0.269	SE	/
M1 M1	20220730 20220730		Moderate Moderate	Mid-Ebb Mid-Ebb	Surface Surface	1	12:13 12:13	8.81 8.82	8.23		29.77 29.72	2.28 2.53	3			1/
M1	20220730		Moderate	Mid-Ebb	Middle	3.45	12:13	8.82	8.17		29.72	2.53	4			1/
M1	20220730	Cloudy	Moderate	Mid-Ebb	Middle	3.45	12:12	8.83	8.23	28.29	29.82	2.25	3	0.282		/
M1	20220730		Moderate	Mid-Ebb	Bottom	5.9	12:11	8.81	8.17		29.85	2.27	2.5		E	/
M1	20220730		Moderate		Bottom	5.9	12:11	8.82	8.20		29.89	2.27	2.5		SE	1,
M2 M2	20220730 20220730		Moderate Moderate	Mid-Ebb Mid-Ebb	Surface Surface	1 1	11:56 11:56	8.97 8.98	8.20		29.79 29.79	3.45 3.35	2.5		E	1/
M2	20220730		Moderate		Middle	6.6	11:55	8.96	8.25		29.76	3.41	3			1/
M2	20220730	Cloudy	Moderate	Mid-Ebb	Middle	6.6	11:55	8.90	8.22	28.30	29.72	3.23	5	0.301	SE	/
M2	20220730		Moderate		Bottom	12.2	11:54	9.03	8.18		29.75	3.15	3			1/
M2 M3	20220730		Moderate Moderate	Mid-Ebb Mid-Ebb	Bottom	12.2	11:54 12:30	8.93	8.21	28.14 28.63	29.80 29.89	3.09	2.5		SE E	1/
M3	20220730 20220730		Moderate		Surface Surface	1	12:30	8.38 8.38	8.31		29.89	2.01 2.35	4		E	1/
M3	20220730		Moderate	Mid-Ebb	Middle	3.25	12:29	8.35	8.36		29.79	2.25	3			/
M3	20220730		Moderate		Middle	3.25	12:29	8.41	8.37		29.91	2.38	2.5			/
M3	20220730 20220730		Moderate	Mid-Ebb Mid-Ebb	Bottom	5.5	12:28	8.40 8.34	8.35		29.76 29.77	2.28	3 4			1/
M3 M4	20220730		Moderate Moderate	Mid-Ebb Mid-Ebb	Surface	5.5	12:28 13:10	9.16	8.29		30.03	2.14 2.69	3			1/
M4	20220730		Moderate		Surface	1	13:10	9.22	8.20		29.83	2.64	5			/
M4	20220730		Moderate	Mid-Ebb		3.8	13:09	9.14	8.19		29.95	2.42	4			/
M4	20220730		Moderate	Mid-Ebb	In	3.8	13:09	9.16	8.21	28.67	29.94	2.52	3	0.292		

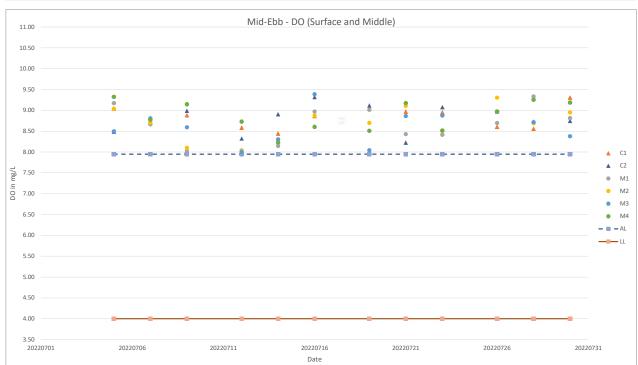
1																
Section March Ma	Location			Sea Condition			Depth (m)						, , ,			Remark
1	C1						1									/
1	C1															/
Second Column Col	C1 C1									_						/
1	C1									_						/
1	C2									_						/
1	C2 C2									_						/
22	C2															/
10	C2															/
Margin M																/
10 202000 Cond. Monocore	M1															/
10 202000 Same	M1									_						/
10 200000 Cont. Montreal	M1															/
Mathematics	M1	20220705	Cloudy		Mid-Flood			8:36	9.26		30.51	28.39	3.24		0.275 SE	/
200 2000000 2000000 2000000 200000 200000 200000 200000 200000 200000 2000000 2000000 2000000 200000000	M2									_						/
Section Sect	M2															/
Section Section Section Section Section 12 20 20 31 27 20 20 31 3 30 20 6 7	M2	20220705	Cloudy		Mid-Flood	Middle	6.55	9:00	8.39	_	30.96	28.41	3.29	2.5	0.270 SE	/
Section Conference Section S	M2									_				_		/
Section Sect	M3															/
030 2000 Clumby National Polarities 1.0 miles 1.0 miles 200 2.0 miles 1.0 miles	M3	20220705	Cloudy		Mid-Flood			8:20	9.13		30.21	28.45	3.19	2.5	0.277 SE	/
Math 2020000 Conference Sections S	M3															/
Math	M3 M3															/
May 2020000 Cooley Western Cooley Control of Service 1 9.20 466 22 50.70 23.20 23.20 4 0.20 50.00 6 0.	M3	20220705	Cloudy	Moderate	Mid-Flood	Bottom	6.4	8:18	9.04	8.17	30.17	28.49	2.88	3	0.309 E	/
MA DECENT COMPY Moderate Verbook Stores 1.5 9.31 8.25 2.46 2.00 2.4 1.0 0.32 1.4 1.	M4															/
Math	M4 M4															/
13 2022007 Cloudy Moderate Walf Bood Walfer 106 104 127 137 138 139 139 134 139 139 134 139 13	M4	20220705	Cloudy	Moderate	Mid-Flood	Bottom	3.6	9:31	8.54	8.26	30.61	28.30	2.73	3	0.282 E	/
13 2020007 Charly Moderate Work Board Market 10.65 10.14 A.7 A.7 D.3.2 23.15 D.3.2 D.3.15 C.3.15	C1															/
1.1	C1 C1															/
13 20,22070 [Cooky Moderate Met-Root Enforce 23 23 24 25 25 23 23 25 25 25 25	C1	20220707	Cloudy	Moderate	Mid-Flood		10.65	10:34	8.95	8.17	30.28	28.32	2.93	2.5	0.306 SE	/
22	C1															/
22 2020007 Cooly Moderate Mod Frood Mode 10 70 91 92 81 30 50 82 5 30 92 52 0.288 5 7 7 7 7 7 7 7 7 7	C2															/
22 2020007 Cloudy	C2	20220707	Cloudy		Mid-Flood			9:17	9.28		30.65	28.25	3.09	2.5	0.284 SE	/
22 2020007 Closely Moderate Miniffered Bettom 20.5 915 9.27 8.18 50.79 2.28 3.18 4.06 2.5 0.272 8.5 7.2	C2															/
32,320,000 Couly Moderate Mod-Rood Surface 1,952 8,40 8,40 30,50 28,10 1,952 1	C2 C2									_						/
M. 20220701 Clouby Moderate Mid-frood Middle 3.50 PST 8.50 RST 8.32 RAD 3.040 PSAS 2.20 2.5 D.277 E / CAMPA 20220701 Clouby Moderate Mid-frood Middle 1.50 RST 8.50 RST 8.32 RAD 3.040 PSAS 2.20 2.30 2.30 D.277 E / CAMPA 20220701 Clouby Moderate Mid-frood Middle 1.50 RST 8.50 RST 8.5	C2	20220707	Cloudy													/
M3 2322000 Cloudy Moderate Mid-Rood Models 3.66 931 8.57 8.60 30.60 93.2 8.67 2.80 3 0.70 95 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	M1															/
M. 3022070 Cloudy Moderate Mini-Flood Model 26.5 951 8.2 8.39 93.8 22.54 2.51 2.5 0.311 SE / Mini-Flood Model Pattorn 6.3 9.50 8.55 8.50 8.50 8.50 8.50 8.50 8.50 8														_		/
M. 3022007 Cloudy Moderate Mid-Flood Garlace I. 1 1013 9.29 8.16 3.00 8.23 22.22 2.5 0.289 SE / M. 2022007 Cloudy Moderate Mid-Flood Garlace I. 1 1013 9.29 8.10 30.21 22.24 2.5 0.279 SE / M. 2022007 Cloudy Moderate Mid-Flood Garlace I. 1 1013 9.29 8.10 30.21 22.24 2.5 0.279 SE / M. 2022007 Cloudy Moderate Mid-Flood Mid-Flood Series I. 1 1013 9.29 8.10 30.22 2.22 3.2 5 0.279 SE / M. 2022007 Cloudy Moderate Mid-Flood Mid-Flo	M1									_						/
Mathematics Moderate Modera	M1									_						/
Mathematics Moderate Modera																/
Main Main Moderate Modera	M2						1			_						/
M2	M2															/
M3 20220707 Courly Moderate Mid-Flood Surface 1 1.7 30.11 9.10 8.15 30.25 28.46 2.67 2.5 0.278 9.5 // M3 20220707 Courly Moderate Mid-Flood Surface 1 1.934 8.12 8.40 13.12 8.25 2.279 3 0.276 9.5 // M3 20220707 Courly Moderate Mid-Flood Surface 1 1.934 8.22 8.40 13.12 28.37 2.55 2.5 0.381 9.6 // M3 20220707 Courly Moderate Mid-Flood Modes 4.65 9.33 8.80 8.32 8.11 1.26 28.37 2.55 2.5 0.381 9.6 // M3 20220707 Courly Moderate Mid-Flood Modes 4.65 9.33 8.80 8.32 8.11 1.26 28.37 2.55 2.5 0.381 9.6 // M3 20220707 Courly Moderate Mid-Flood Modes 4.65 9.33 8.80 8.36 8.32 8.31 1.31 2.28 2.88 9.30 2.5 0.32 2.5 0.381 9.5 // M3 20220707 Courly Moderate Mid-Flood Surface 1 1.957 8.50 8.36 8.36 8.31 1.31 2.28 2.35 2.26 1.3 0.02 9.28 9.5 // M3 20220707 Courly Moderate Mid-Flood Surface 1 1.957 8.50 8.36 8.36 8.32 2.31 1.32 2.32 2.5 0.381 9.5 // M3 20220707 Courly Moderate Mid-Flood Surface 1 1.957 8.50 8.36 8.36 8.32 2.28 1.3 3.0 2.5 0.383 9.5 // M3 20220707 Courly Moderate Mid-Flood Surface 1 1.957 8.50 8.36 8.36 8.35 3.05 2.28 4.1 3.30 2.5 0.383 9.5 // M3 20220707 Courly Moderate Mid-Flood Surface 1 1.957 8.50 8.38 8.30 6.5 2.84 1.3 3.0 2.5 0.383 9.5 // M3 20220707 Courly Moderate Mid-Flood Surface 1 1.957 8.50 8.38 8.30 6.5 2.84 1.3 3.0 2.5 0.383 9.5 // M3 20220707 Courly Moderate Mid-Flood Surface 1 1.957 8.50 8.38 8.38 3.05 2.28 4.1 3.3 0.2 2.5 0.383 9.5 // M3 20220707 Courly Moderate Mid-Flood Surface 1 1.3 1.057 8.30 8.38 8.35 3.056 2.84 1.3 3.0 2.5 0.375 9.5 // M3 20220709 Courly Moderate Mid-Flood Surface 1 1.3 1.057 8.30 8.38 8.35 3.056 2.84 1.3 3.0 2.5 0.375 9.5 // M3 20220709 Courly Moderate Mid-Flood Surface 1 1.3 1.057 8.30 8.38 8.35 3.056 2.84 1.3 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3										_						/
M3 D2229777 [Cauly Moderate Mid-Flood Suffice 1 1 934 8.22 8.40 3.3 13.4 28.37 2.55 2.5 0.281 SE // M3 D2229777 [Cauly Moderate Mid-Flood Middle 4.05 933 8.37 8.39 3.10 9.2834 2.55 3.3 0.307 E // M3 D2229777 [Cauly Moderate Mid-Flood Suffice 7 1 932 8.26 8.6 8.40 31.17 8.39 1.00 2.845 2.55 0.308 SE // M3 D2229777 [Cauly Moderate Mid-Flood Suffice 1 1 30.57 8.30 8.6 8.40 31.17 8.39 1.00 3.00 SE // M3 D2229777 [Cauly Moderate Mid-Flood Suffice 1 1 30.57 8.30 8.6 8.40 31.17 8.39 1.00 3.00 SE // M3 D2229777 [Cauly Moderate Mid-Flood Suffice 1 1 30.57 8.30 8.6 8.40 31.17 8.39 1.00 3.00 SE // M3 D2229777 [Cauly Moderate Mid-Flood Suffice 1 1 30.57 8.30 8.6 8.40 8.31.17 8.39 1.00 3.30 2.5 0.30 SE // M3 D2229777 [Cauly Moderate Mid-Flood Suffice 1 1 30.57 8.30 8.80 8.30 7.0 SE // M3 D2229797 [Cauly Moderate Mid-Flood Suffice 1 1 30.57 8.30 8.80 8.30 8.30 9.0 SE // M3 D2229797 [Cauly Moderate Mid-Flood Suffice 1 1 30.57 8.30 8.30 8.30 8.30 9.0 SE // M3 D2229797 [Cauly Moderate Mid-Flood Suffice 1 1 30.57 8.30 8.30 8.30 9.0 SE // M3 D2229799 [Cauly Moderate Mid-Flood Suffice 1 1 30.57 8.30 8.30 8.30 9.0 SE // M3 D2229799 [Cauly Moderate Mid-Flood Suffice 1 1 30.57 8.30 8.30 8.30 9.0 SE // M3 D2229799 [Cauly Moderate Mid-Flood Suffice 1 1 30.57 8.30 8.30 8.30 9.0 SE // M3 D2229799 [Cauly Moderate Mid-Flood Suffice 1 1 30.57 8.30 8.30 8.30 9.0 SE // M3 D2229799 [Cauly Moderate Mid-Flood Suffice 1 1 30.50 8.30 8.30 8.30 9.0 SE // M3 D2229799 [Cauly Moderate Mid-Flood Suffice 1 1 30.40 8.87 8.18 3.30 8.30 8.30 9.30 8.30 8.30 9.30 9.30 8.30 9.30 9.30 9.30 9.30 9.30 9.30 9.30 9	M2	20220707	Cloudy						9.10		30.25	28.46	2.67		0.278 SE	/
M3 20220707 Courly Moderate Mid-flood Middle 4.05 9-33 8.07 8.39 31.05 23.38 2.52 2.5 0.306 E // Middle 4.05 9-33 8.07 8.39 31.05 23.34 2.53 3 0.302 E // Middle 4.05 9-33 8.07 8.39 31.05 23.34 2.53 3 0.302 E // Middle 4.05 9-33 8.07 8.39 31.0	M3						1									/
M3 2022077 Courly Moderate Mid-flood Middle A05 9-33 8.17 8-39 3.10 23-34 2.53 3 0.30 E // M3 20220707 Courly Moderate Mid-flood Bottom 7.1 9-32 8.66 8.40 31.21 28.25 2.64 2.25 0.32 E // M3 20220707 Courly Moderate Mid-flood Sottom 7.1 9-32 8.67 8.36 8.30 8.31.37 28.33 2.78 3 0.293 E // M3 20220707 Courly Moderate Mid-flood Surface 1 1.05.7 8.30 8.56 8.30 8.32 30.62 28.41 3.30 2.5 0.303 SE // M3 20220707 Courly Moderate Mid-flood Surface 1 1.05.7 8.30 8.36 8.30 6.2 28.41 3.30 2.5 0.203 SE // M3 20220707 Courly Moderate Mid-flood Surface 1 1.05.7 8.30 8.36 8.30 6.2 28.43 3.0 2.23 2.5 0.203 SE // M3 20220707 Courly Moderate Mid-flood Surface 1 1.05.7 8.30 8.36 8.36 8.37 2.23 2.5 0.203 SE // M3 20220707 Courly Moderate Mid-flood Surface 1 1.05.7 8.30 8.36 8.30 6.2 28.43 3.17 2.5 0.203 SE // M3 20220707 Courly Moderate Mid-flood Surface 1 1.05.7 8.30 8.37 8.38 3.34 2.50 8.43 3.17 2.5 0.30 SE // M3 20220707 Courly Moderate Mid-flood Surface 1 1.004 8.30 8.55 3.06.7 28.43 3.17 2.5 0.30 SE // M3 20220709 Courly Moderate Mid-flood Surface 1 1.004 8.30 8.55 3.06.7 28.43 3.17 2.5 0.30 SE // M3 20220709 Courly Moderate Mid-flood Surface 1 1.004 8.30 8.55 3.16 3.3.64 28.01 3.80 3.00 4.00 4.00 2.79 SE // M3 20220709 Courly Moderate Mid-flood Surface 1 1.004 8.30 8.55 3.16 3.3.65 28.14 4.00 4 0.275 SE // M3 20220709 Courly Moderate Mid-flood Surface 1.1 1.00 8.35 8.16 3.3.65 28.18 4.00 4 0.027 SE /// M3 20220709 Courly Moderate Mid-flood Surface 1.1 1.00 8.35 8.16 3.3.65 28.18 4.00 4 0.027 SE //// M3 20220709 Courly Moderate Mid-flood Surface 1.1 1.00 8.35 8.16 3.3.65 28.19 3.3.5 5.0.00 SE //////////////////////////////////							4.05			_						/
M3 2022070 Cloudy Moderate Mid-Flood Stortom 7.1 9.32 8.26 8.36 8.31 37 28.33 2.78 3 0.293 E // M4 2022070 Cloudy Moderate Mid-Flood Surface 1 1057 8.30 8.36 8.36 3.37 25 0.380 SE // M3 2022070 Cloudy Moderate Mid-Flood Surface 1 1057 8.30 8.38 8.30 8.32 3.32 2.5 0.380 SE // M4 2022070 Cloudy Moderate Mid-Flood Stortom 4.3 1056 8.31 8.35 0.66 28.40 2.86 3 0.275 SE // M3 2022070 Cloudy Moderate Mid-Flood Stortom 4.3 1056 8.31 8.35 0.306 2.28.41 3.30 2.5 0.380 SE // M3 2022070 Cloudy Moderate Mid-Flood Stortom 4.3 1056 8.35 8.35 8.35 3.087 28.43 3.17 2.5 0.307 SE // Cl 2022070 Cloudy Moderate Mid-Flood Surface 1 14.04 8.80 8.15 31.84 28.04 3.82 3 0.298 SE // Cl 2022070 Cloudy Moderate Mid-Flood Middle 11.55 14.03 8.80 8.15 31.86 28.31 3.06 3 0.298 SE // Cl 2022070 Cloudy Moderate Mid-Flood Stortom 22.1 14.02 8.80 8.15 31.86 28.18 4.00 4 0.273 SE // Cl 2022070 Cloudy Moderate Mid-Flood Stortom 22.1 14.02 8.85 8.16 31.84 28.09 4.08 7 0.295 SE // Cl 2022070 Cloudy Moderate Mid-Flood Stortom 22.1 14.02 8.85 8.16 31.84 28.09 4.08 7 0.295 SE // Cl 2022070 Cloudy Moderate Mid-Flood Stortom 22.1 14.02 8.85 8.15 31.97 28.25 4.08 4.0 4.0 2.27 SE // Cl 2022070 Cloudy Moderate Mid-Flood Stortom 22.1 14.02 8.85 8.15 31.97 28.25 4.08 4.0 4.0 2.27 SE // Cl 2022070 Cloudy Moderate Mid-Flood Stortom 22.1 14.02 8.85 8.15 31.97 28.25 4.08 4.0 4.0 2.28 SE // Cl 2022070 Cloudy Moderate Mid-Flood Stortom 22.1 14.02 8.85 8.15 31.97 28.25 4.08 4.0 4.0 2.28 SE // Cl 2022070 Cloudy Moderate Mid-Flood Stortom 22.1 14.02 8.85 8.15 31.97 28.25 4.08 4.0 4.0 2.28 SE // Cl 2022070 Cloudy Moderate Mid-Flood Stortom 22.1 14.02 8.85 8.15 31.97 28.25 4.08 4.0 4.0 2.28 SE // Cl 2022070 Cloudy Moderate Mid-Flood Stortom 22.1 14.02 8.85 8.15 31.97 28.25 4.08 4.0 4.0 2.28 SE // Cl 2022070 Cloudy Moderate Mid-Flood Stortom 22.5 12.48 8.94 8.17 32.55 2.29 4.0 4.0 4.0 6.25 SE // Cl 2022070 Cloudy Moderate Mid-Flood Stortom 22.5 12.48 8.94 8.17 32.25 2.7 2.9 4.0 4.0 5 5 SE /// Cl 2022070 Cloudy Moderate Mid-Flood Stortom 22.5 12.48 8.94 8.17 32.25 2.7 2.9	M3													_		/
MM 2022070 Cloudy Moderate Mid-Flood Surface 1 1 1057 8.50 8.36 33 0.62 28.41 3.30 2.5 0.303 SE // MA 2022070 Cloudy Moderate Mid-Flood Bottom 4.3 1056 8.31 8.35 30.47 28.37 3.22 2.5 0.280 SE // MA 2022070 Cloudy Moderate Mid-Flood Bottom 4.3 1056 8.31 8.35 30.66 28.40 2.86 3 0.271 SE // MA 2022070 Cloudy Moderate Mid-Flood Surface 1 1 14:04 8.77 8.18 31.84 28.04 3.12 2.5 0.307 SE // MID-Flood Surface 1 1 14:04 8.77 8.18 31.84 28.04 3.82 3 0.289 SE // MID-Flood Surface 1 1 14:04 8.77 8.18 31.84 28.04 3.82 3 0.289 SE // MID-Flood Surface 1 1 14:04 8.77 8.18 31.84 28.04 3.82 3 0.289 SE // MID-Flood Surface 1 1 14:04 8.77 8.18 31.84 28.09 4.08 3 8.28 3 0.299 SE // MID-Flood Surface 1 1 14:04 8.77 8.18 31.84 28.09 4.08 7 0.275 SE // MID-Flood Surface 1 1 14:04 8.77 8.18 31.84 28.09 4.08 7 0.275 SE // MID-Flood Surface 1 1 14:04 8.77 8.18 31.84 28.09 4.08 7 0.275 SE // MID-Flood Surface 1 1 14:04 8.77 8.18 31.84 28.09 4.08 7 0.275 SE // MID-Flood Surface 1 1 14:04 8.77 8.18 31.84 28.09 4.08 7 0.275 SE // MID-Flood Surface 1 1 12:05 8.79 8.75 8.75 8.75 8.75 8.75 8.75 8.75 8.75	M3													_		/
MM 2022070 (Coudy Moderate Mid-Flood Bufface 1 1 10:57 8.30 8.38 30.47 28.37 3.23 2.5 0.280 SE // Mid-Moderate Mid-Flood Bufface 1 3 10:56 8.31 8.35 30.66 28.40 2.86 3 0.271 SE // Mid-Moderate Mid-Flood Bufface 1 1 10:57 8.30 8.38 8.30 8.73 28.40 2.86 3 0.271 SE // Mid-Moderate Mid-Flood Bufface 1 1 10:56 8.53 8.35 30.87 28.43 31.7 2.5 0.307 SE // Mid-Flood Sufface 1 1 10:56 8.53 8.35 30.87 28.43 31.7 2.5 0.307 SE // Mid-Flood Sufface 1 1 10:57 8.30 8.75 81.84 28.04 38.22 3 0.289 SE // Mid-Flood Sufface 1 1 10:57 8.30 8.75 81.84 28.04 38.22 3 0.289 SE // Mid-Flood Sufface 1 1 10:57 8.30 8.75 81.85 8																/
Math	M4	20220707	Cloudy	Moderate	Mid-Flood		1	10:57	8.30	8.38	30.47	28.37	3.23	2.5	0.280 SE	/
11 20220709 Cloudy Moderate Mid-Flood Surface 1 1404 8.77 8.18 31.84 28.04 3.82 3 0.289 5 / Cl.	M4															/
11	M4 C1						4.3							_		/
1.1 20220796 Cloudy Moderate Mid-Flood Middle 11.55 34.03 8.85 8.16 31.84 28.09 4.08 7 0.295 8E / Cl. 20220796 Cloudy Moderate Mid-Flood Bottom 22.1 34.02 8.75 8.13 31.91 28.12 3.81 5 0.302 5E / Cl. 20220796 Cloudy Moderate Mid-Flood Surface 1 12.50 8.95 8.21 32.55 27.99 4.33 4 0.305 5E / Cl. 20220796 Cloudy Moderate Mid-Flood Middle 11.25 12.49 9.01 8.16 32.57 28.22 4.08 4 0.285 5E / Cl. 20220796 Cloudy Moderate Mid-Flood Middle 11.25 12.49 9.01 8.16 32.57 28.22 4.08 5 0.309 E / Cl. 20220796 Cloudy Moderate Mid-Flood Middle 11.25 12.49 9.01 8.16 32.57 28.22 4.08 5 0.309 E / Cl. 20220796 Cloudy Moderate Mid-Flood Middle 11.25 12.49 9.01 8.16 32.57 28.22 4.08 5 0.309 E / Cl. 20220796 Cloudy Moderate Mid-Flood Bottom 21.5 12.48 8.94 8.17 32.56 28.31 4.72 3 0.268 E / Cl. 20220796 Cloudy Moderate Mid-Flood Bottom 21.5 12.48 8.94 8.17 32.56 28.31 4.72 3 0.268 E / Cl. 20220796 Cloudy Moderate Mid-Flood Surface 1 13.26 9.02 8.14 32.66 28.11 3.13 5 0.292 E / Cl. Mid-Plood Middle 3.35 3.35 3.35 3.35 8.96 8.18 32.86 2.796 3.14 4 0.295 E / Cl. Mid-Plood Middle 3.35 3.35 3.35 3.95 8.96 8.19 32.26 2.796 3.14 4 0.295 E / Cl. Mid-Plood Middle 3.35 3.35 3.95 8.96 8.19 32.26 2.796 3.15 3 0.265 E / Cl. Mid-Plood Middle 3.35 3.35 3.35 8.96 8.19 32.75 2.799 4.33 3 0.275 E / Cl. Mid-Plood Middle 3.35 3.35 3.35 8.96 8.19 32.26 2.796 3.15 3 0.265 E / Cl. Mid-Plood Middle 3.35 3.35 3.35 3.95 8.96 8.19 32.26 2.796 3.15 3 0.265 E / Cl. Mid-Plood Middle 3.35 3.35 3.35 3.35 3.35 3.35 3.35 3.35 3.35 3.35 3.35 3.35 3.35 3.	C1	20220709	Cloudy	Moderate	Mid-Flood	Surface	1	14:04	8.80	8.15	31.86	28.31	3.66	3	0.294 E	/
20220709 Cloudy Moderate Mid-Flood Bottom 22.1 14.02 8.72 8.13 3.191 28.12 3.81 5 0.302 55 /	C1													4		/
20220709 Cloudy Moderate Mid-Flood Surface 1 12:50 8.91 8.20 32:52 28:28 4.21 4 0.325 5 7	C1 C1									_						/
222 20220799 Cloudy Moderate Mid-Flood Surface 1 12-50 8.91 8.20 32.62 28.28 4.21 4 0.285 5 7	C1	20220709	Cloudy	Moderate	Mid-Flood	Bottom		14:02	8.85	8.15	31.97	28.25	4.08	4	0.282 SE	/
22 20220709 Cloudy Moderate Mid-Flood Middle 11.25 12.49 9.01 8.16 32.57 28.22 4.68 5 0.309 E / Cloudy Moderate Mid-Flood Middle 11.25 12.49 9.00 8.13 32.61 28.20 4.41 3 0.268 SE / Cloudy Moderate Mid-Flood Bottom 21.5 12.48 8.44 8.17 32.55 28.31 4.72 3 0.268 E / Cloudy Moderate Mid-Flood Bottom 21.5 12.48 8.44 8.17 32.55 28.31 4.72 3 0.268 E / Cloudy Moderate Mid-Flood Middle 11.25 12.48 8.44 8.17 32.52 27.99 4.62 4 0.266 SE / Cloudy Moderate Mid-Flood Middle 11.25 12.48 8.44 8.17 32.52 27.99 4.62 4 0.266 SE / Cloudy Moderate Mid-Flood Middle 11.25 12.48 8.44 8.17 32.52 27.99 4.62 4 0.266 SE / Cloudy Moderate Mid-Flood Middle 11.25 12.48 8.44 8.17 32.52 27.99 4.62 4 0.266 SE / Cloudy Moderate Mid-Flood Middle 3.35 31.25 8.96 8.18 32.86 27.96 31.41 4 0.295 E / Cloudy Moderate Mid-Flood Middle 3.35 31.25 8.96 8.19 32.66 27.96 31.51 3 0.265 SE / Cloudy Moderate Mid-Flood Middle 3.35 31.25 8.96 8.19 32.86 27.96 31.51 3 0.265 SE / Cloudy Moderate Mid-Flood Middle 3.35 31.25 8.96 8.19 32.86 27.94 3.43 3 0.271 SE / Cloudy Moderate Mid-Flood Middle 3.35 31.25 8.96 8.19 32.25 27.94 3.43 3 0.271 SE / Cloudy Moderate Mid-Flood Middle 3.35 31.24 9.02 8.19 32.80 27.94 2.97 5 0.304 SE / Cloudy Moderate Mid-Flood Middle 3.35 31.34 9.02 8.19 32.80 27.94 2.97 5 0.304 SE / Cloudy Moderate Mid-Flood Middle 6.4 31.42 9.00 8.18 32.24 27.71 2.93 4 0.276 E / Cloudy Moderate Mid-Flood Middle 6.4 31.42 9.00 8.19 32.19 27.89 2.65 3 0.273 SE / Cloudy Moderate Mid-Flood Middle 6.4 31.42 9.00 8.19 32.19 27.79 3.82 3 0.273 SE / Cloudy Mo	C2						1									/
22 20220799 Cloudy Moderate Mid-Flood Middle 1125 12:49 9.00 8.13 32:61 28:20 4.41 3 0.268 E / C 20220799 Cloudy Moderate Mid-Flood Bottom 21:5 12:48 8.94 8.17 32:52 27:99 4.62 4 0.266 SE / MI 20220799 Cloudy Moderate Mid-Flood Mi	C2 C2						11.25									/
20220709 Cloudy Moderate Mid-Flood Surface 1 13:26 9.02 8.14 32.52 27.99 4.62 4 0.266 5E /	C2	20220709	Cloudy	Moderate	Mid-Flood		11.25	12:49	9.00	8.13	32.61	28.20	4.41		0.268 SE	/
M1 20220709 Cloudy Moderate Mid-Flood Surface 1 13:26 9.02 8.14 32.68 28.11 3.13 5 0.292 E // M1 20220709 Cloudy Moderate Mid-Flood Middle 3.35 13:25 8.96 8.18 32.66 27.96 3.14 4 0.295 E // M1 20220709 Cloudy Moderate Mid-Flood Middle 3.35 13:25 8.96 8.19 32.66 27.96 3.14 4 0.295 E // M1 20220709 Cloudy Moderate Mid-Flood Middle 3.35 13:25 8.96 8.18 32.86 27.96 3.15 3 0.265 SE // M1 20220709 Cloudy Moderate Mid-Flood Middle 3.35 13:25 8.96 8.19 32.75 27.94 3.43 3 0.271 SE // M1 20220709 Cloudy Moderate Mid-Flood Bottom 5.7 13:24 8.93 8.16 32.77 28.12 3.47 6 0.309 SE // M2 20220709 Cloudy Moderate Mid-Flood Surface 1 13:43 8.94 8.18 32.22 27.73 2.55 4 0.276 E // M2 20220709 Cloudy Moderate Mid-Flood Middle 6.4 13:42 9.00 8.18 32.22 27.73 2.55 4 0.276 E // M2 20220709 Cloudy Moderate Mid-Flood Middle 6.4 13:42 9.01 8.18 32.34 27.71 2.93 4 0.303 SE // M2 20220709 Cloudy Moderate Mid-Flood Middle 6.4 13:42 9.00 8.19 32.75 27.89 2.65 3 0.273 SE // M2 20220709 Cloudy Moderate Mid-Flood Middle 6.4 13:42 9.00 8.19 32.75 27.89 2.65 3 0.276 E // M2 20220709 Cloudy Moderate Mid-Flood Middle 6.4 13:42 9.00 8.19 32.19 27.89 2.65 3 0.273 SE // M2 20220709 Cloudy Moderate Mid-Flood Middle 6.4 13:42 9.00 8.19 32.19 27.89 2.65 3 0.273 SE // M2 20220709 Cloudy Moderate Mid-Flood Middle 6.4 13:42 9.00 8.19 32.19 27.89 2.65 3 0.273 SE // M2 20220709 Cloudy Moderate Mid-Flood Middle 6.4 13:42 9.00 8.23 32.21 27.81 2.85 3 0.311 E // M3 20220709 Cloudy Moderate Mid-Flood Middle 6.4 13:44 9.00 8.20 3.20 32.20 3	C2															/
M1 20220709 Cloudy Moderate Mid-Flood Mid-Floo																/
M1 20220799 Cloudy Moderate Mid-flood Middle 3.35 13:25 8.96 8.18 32.86 27.96 3.15 3 0.265 \$E / Mid 1.20220799 Cloudy Moderate Mid-flood Middle 3.35 13:25 8.96 8.18 32.86 27.96 3.15 3 0.265 \$E / Mid 1.20220799 Cloudy Moderate Mid-flood Middle 3.35 13:25 8.96 8.18 32.87 27.94 3.38 3 0.271 \$E / Mid 1.20220799 Cloudy Moderate Mid-flood Middle 3.35 13:25 8.96 8.18 32.80 27.94 2.97 5 0.304 \$E / Mid 1.20220799 Cloudy Moderate Mid-flood Middle 5.7 13:24 9.02 8.19 32.80 27.94 2.97 5 0.304 \$E / Mid 1.20220799 Cloudy Moderate Mid-flood Surface 1 1 13:43 8.89 8.16 32.77 28.12 3.47 6 0.309 \$E / Mid 1.20220799 Cloudy Moderate Mid-flood Surface 1 1 13:43 8.89 8.18 32.25 27.89 2.60 5 0.287 \$E / Mid 1.20220799 Cloudy Moderate Mid-flood Middle 6.4 13:43 8.94 8.18 32.22 27.73 2.55 4 0.276 \$E / Mid 1.20220799 Cloudy Moderate Mid-flood Middle 6.4 13:42 9.01 8.18 32.34 27.71 2.93 4 0.303 \$E / Mid 1.20220799 Cloudy Moderate Mid-flood Middle 6.4 13:42 9.00 8.19 32.19 27.89 2.65 3 0.273 \$E / Mid 1.20220799 Cloudy Moderate Mid-flood Middle 6.4 13:42 9.00 8.23 32.21 27.81 2.85 3 0.273 \$E / Mid 1.20220799 Cloudy Moderate Mid-flood Middle 6.4 13:42 9.00 8.23 32.21 27.81 2.85 3 0.273 \$E / Mid 1.20220799 Cloudy Moderate Mid-flood Middle 6.4 13:42 9.00 8.23 32.21 27.81 2.85 3 0.311 \$E / Mid 1.20220799 Cloudy Moderate Mid-flood Middle 8.24 13:43 9.04 8.24 32.24 27.90 2.95 2.5 0.263 \$E / Mid 1.20220799 Cloudy Moderate Mid-flood Middle 8.22 13:208 8.85 8.09 31.81 27.75 3.74 4 0.308 \$E / Mid 1.20220799 Cloudy Moderate Mid-flood Surface 1 1 13:09 8.80 8.09 31.81 27.75 3.74 4 0.308 \$E / Mid 1.20220799 Cloudy Moderate Mid-flood Surface 1 1 13:09 8.80 8.09 31.81 27.75 3.34 4 0.308 \$E / Mid 1.20220799 Cloudy Moderate Mid-flood Surface 1 1 13:09 8.80 8.09 31.81 27.75 3.34 3 0.277 \$E / Mid 1.202009 Cloudy Moderate Mid-flood Surface 1 1 13:09 8.81 8.08 31.66 27.75 3.38 3 0.277 \$E / Mid 1.202009 Cloudy Moderate Mid-flood Surface 1 1 13:09 8.81 8.08 31.66 27.75 3.38 3 0.267 \$E / Mid 1.202009 Cloudy Moderate Mid-flood Surface 1 1 13:07 8.81 8.00 31.66 27.7	M1	20220709	Cloudy													/
M1 20220709 Cloudy Moderate Mid-Flood bottom 5.7 13:24 9.02 8.19 32.80 27.94 2.97 5 0.304 SE / M2 20220709 Cloudy Moderate Mid-Flood Surface 1 13:43 8.89 8.16 32.77 28:12 3.47 6 0.309 SE / M2 20220709 Cloudy Moderate Mid-Flood Mid-Flood Surface 1 13:43 8.89 8.24 32:25 27.89 2.60 5 0.287 SE / M2 20220709 Cloudy Moderate Mid-Flood Middle 6.4 13:43 8.99 8.24 32:25 27.89 2.60 5 0.287 SE / M2 20220709 Cloudy Moderate Mid-Flood Middle 6.4 13:43 8.99 8.24 32:25 27.89 2.60 5 0.287 SE / M2 20220709 Cloudy Moderate Mid-Flood Middle 6.4 13:43 8.99 8.24 32:25 27.89 2.60 5 0.287 SE / M2 20220709 Cloudy Moderate Mid-Flood Middle 6.4 13:42 9.01 8.18 32:22 27.73 2.55 4 0.276 E / M2 20220709 Cloudy Moderate Mid-Flood Middle 6.4 13:42 9.01 8.18 32:22 27.78 2.55 3 0.273 SE / M3 20220709 Cloudy Moderate Mid-Flood Middle 6.4 13:44 9.00 8.23 32:21 27.81 2.85 3 0.311 E / M3 M2 20220709 Cloudy Moderate Mid-Flood Middle Middle 8.22 13:44 9.00 8.23 32:21 27.81 2.85 3 0.311 E / M3 M3 20220709 Cloudy Moderate Mid-Flood Middle Middle M3	M1	20220709	Cloudy							_	32.86					/
M1 20220709 Cloudy Moderate Mid-Flood Sottom 5.7 13:24 8.93 8.16 32.77 28.12 3.47 6 0.309 SE / M2 20220709 Cloudy Moderate Mid-Flood Surface 1 13:43 8.89 8.24 32.25 27.89 2.60 5 0.287 SE / M2 20220709 Cloudy Moderate Mid-Flood Mid-F																/
M2 20220799 Cloudy Moderate Mid-Flood Surface 1 13:43 8.89 8.24 32.25 27.89 2.00 5 0.287 SE / M2 20220799 Cloudy Moderate Mid-Flood Midelle 6.4 13:42 9.10 8.18 32.24 27.71 2.93 4 0.303 SE / M2 20220799 Cloudy Moderate Mid-Flood Midelle 6.4 13:42 9.10 8.18 32.24 27.71 2.93 4 0.303 SE / M2 20220799 Cloudy Moderate Mid-Flood Midelle 6.4 13:42 9.01 8.18 32.24 27.71 2.93 4 0.303 SE / M2 20220799 Cloudy Moderate Mid-Flood Surface 13:43 9.00 8.19 32.19 27.89 2.65 3 0.273 SE / M2 20220799 Cloudy Moderate Mid-Flood Surface 13:43 9.00 8.23 32.21 27.81 2.85 3 0.311 E / M2 M2 20220799 Cloudy Moderate Mid-Flood Surface 1 13:41 9.00 8.24 32.34 27.790 2.95 2.5 0.263 SE / M3 20220799 Cloudy Moderate Mid-Flood Surface 1 13:09 8.80 8.09 31:81 27.75 3.74 4 0.308 SE / M3 20220799 Cloudy Moderate Mid-Flood Midelle 3.2 13:08 8.82 8.13 31.75 27.77 3.82 3 0.277 SE / M3 20220799 Cloudy Moderate Mid-Flood Midelle 3.2 13:08 8.84 8.13 31.75 27.79 3.68 3 0.308 SE / M3 20220799 Cloudy Moderate Mid-Flood Midelle 3.2 13:08 8.84 8.13 31.75 27.79 3.68 3 0.308 SE / M3 20220799 Cloudy Moderate Mid-Flood Midelle 3.2 13:08 8.84 8.13 31.75 27.77 3.84 3.41 3 0.303 SE / M3 20220799 Cloudy Moderate Mid-Flood Midelle 3.2 13:08 8.94 8.18 8.08 31.68 27.75 3.34 3 0.267 SE / M3 20220799 Cloudy Moderate Mid-Flood Surface 1 14:22 9.15 8.23 32.40 27.98 2.90 5 0.284 SE / M4 20220799 Cloudy Moderate Mid-Flood Surface 1 14:22 9.15 8.23 32.40 27.98 2.90 5 0.293 SE / M4 20220799 Cloudy Moderate Mid-Flood Surface 1 14:22 9.15 8.23 32.40 27.98 2.90 5 0.293 SE / M4 20220799 Cloudy Moderate	M1	20220709	Cloudy													/
M2 20220799 Cloudy Moderate Mid-Flood Middle 6.4 13:42 9.01 8.18 32.34 27.71 2.93 4 0.303 5E / M2 20220799 Cloudy Moderate Mid-Flood Middle 6.4 13:42 9.01 8.18 32.14 27.71 2.93 4 0.303 5E / M2 20220799 Cloudy Moderate Mid-Flood Bottom 11.8 13:41 9.00 8.23 32.21 27.81 2.85 3 0.311 E / M2 20220799 Cloudy Moderate Mid-Flood Bottom 11.8 13:41 9.00 8.23 32.21 27.81 2.85 3 0.311 E / M2 M2 M2 M2 M2 M2 M2	M2	20220709	Cloudy													/
M2 20220799 Cloudy Moderate Mid-flood Middle 6.4 13.42 9.00 8.19 32.19 27.89 2.65 3 0.273 \$E // M2 20220799 Cloudy Moderate Mid-flood southout 11.8 13.41 9.00 8.23 32.21 27.81 2.25 3 0.311 E // M3 20220799 Cloudy Moderate Mid-flood Surface 1 13.09 8.80 8.09 31.81 27.75 3.74 4 0.308 \$E // M3 20220799 Cloudy Moderate Mid-flood Surface 1 13.09 8.80 8.09 31.81 27.75 3.74 4 0.308 \$E // M3 20220799 Cloudy Moderate Mid-flood Surface 1 13.09 8.80 8.09 31.81 27.75 3.24 4 0.308 \$E // M3 20220799 Cloudy Moderate Mid-flood Surface 1 13.09 8.80 8.09 8.85 8.11 31.75 27.77 3.82 3 0.277 \$E // M3 20220799 Cloudy Moderate Mid-flood Surface 1 13.09 8.80 8.09 8.85 8.11 31.75 27.77 3.82 3 0.308 \$E // M3 20220799 Cloudy Moderate Mid-flood Middle 3.2 13.08 8.82 8.31 31.69 27.79 3.68 3 0.308 \$E // M3 20220799 Cloudy Moderate Mid-flood Middle 3.2 13.08 8.84 8.31 31.75 27.84 3.41 3 0.303 \$E // M3 20220799 Cloudy Moderate Mid-flood Surface 1 13.07 8.81 8.08 31.68 27.75 3.38 5 0.284 \$E // M4 20220799 Cloudy Moderate Mid-flood Surface 1 14.22 9.15 8.23 32.40 27.99 2.90 5 0.283 \$E // M4 20220799 Cloudy Moderate Mid-flood Surface 1 14.22 9.15 8.23 32.40 27.99 2.90 5 0.293 \$E // M4 20220799 Cloudy Moderate Mid-flood Surface 1 14.22 9.15 8.23 32.40 27.99 2.90 5 0.293 \$E // M4 20220799 Cloudy Moderate Mid-flood Surface 1 14.22 9.15 8.23 32.40 27.99 2.90 5 0.293 \$E // M4 20220799 Cloudy Moderate Mid-flood Surface 1 14.22 9.15 8.21 32.26 28.14 2.95 4 0.308 \$E // M4 20220799 Cloudy Moderate Mid-flood Surface 1 14.22 9.15 8.21 32.26 28.13 2.64 4 0.279 \$E //	M2 M2									_						/
M2 20220709 Cloudy Moderate Mid-Flood Bottom 11.8 13:41 9.00 8.23 32.21 27.81 2.85 3 0.311 E / / M2 20220709 Cloudy Moderate Mid-Flood Surface 11.8 13:41 9.00 8.23 32.21 27.81 2.85 3 0.311 E / / M3 20220709 Cloudy Moderate Mid-Flood Surface 11.8 13:41 9.04 8.24 32.34 27.90 2.95 2.5 0.263 SE / / M3 20220709 Cloudy Moderate Mid-Flood Surface 11.13:09 8.80 8.09 31.81 27.75 3.74 4 0.308 SE / / M3 20220709 Cloudy Moderate Mid-Flood Middle 3.2 13:08 8.82 8.11 31.75 27.77 3.82 3 0.277 SE / / M3 20220709 Cloudy Moderate Mid-Flood Middle 3.2 13:08 8.82 8.13 31.69 27.79 3.86 3 0.308 SE / / M3 20220709 Cloudy Moderate Mid-Flood Middle 3.2 13:08 8.82 8.13 31.75 27.84 3.41 3 0.303 SE / / M3 20220709 Cloudy Moderate Mid-Flood Middle 3.2 13:08 8.94 8.13 31.75 27.84 3.41 3 0.303 SE / / M3 20220709 Cloudy Moderate Mid-Flood Surface 11.13:07 8.81 8.08 31.68 27.75 3.38 3 0.267 SE / / M4 20220709 Cloudy Moderate Mid-Flood Surface 11.14:22 9.15 8.23 32.40 27.99 2.90 5 0.293 SE / / M4 20220709 Cloudy Moderate Mid-Flood Surface 11.14:22 9.15 8.23 32.40 27.99 2.90 5 0.293 SE / / M4 20220709 Cloudy Moderate Mid-Flood Surface 11.14:22 9.15 8.23 32.35 28.14 2.95 4 0.308 SE / / M4 20220709 Cloudy Moderate Mid-Flood Surface 11.14:22 9.15 8.23 32.35 28.14 2.95 4 0.308 SE / / M4 20220709 Cloudy Moderate Mid-Flood Surface 11.14:22 9.15 8.23 32.35 28.14 2.95 4 0.308 SE / / M4 20220709 Cloudy Moderate Mid-Flood Bottom 3.8 Mid-Flood Surface 11.14:22 9.15 8.21 32.26 28.13 2.64 4 0.279 SE / / M4 20220709 Cloudy Moderate Mid-Flood Bottom 3.8 Mid-Flood Surface 11.14:22 9.26 8.21 32.26 28.13 2.64 4 0.279 SE / / M2020709 Cloudy Moderate Mid-Flood Bottom 3.8 Mid-Flood Surface 11.14:22 9.26 8.21 32.26 28.13 2.64 4 0.279 SE / / M2020709 Cloudy Moderate Mid-Flood Bottom 3.8 Mid-Flood Bot	M2									_						/
M3 20220709 Cloudy Moderate Mid-Flood Surface 1 13:09 8.80 8.09 31.81 27.75 3.74 4 0.308 SE / M3 20220709 Cloudy Moderate Mid-Flood Surface 1 13:09 8.85 8.11 31.75 27.77 3.82 3 0.277 SE / M3 20220709 Cloudy Moderate Mid-Flood Middle 3.2 13:08 8.82 8.13 31.69 27.79 3.68 3 0.308 SE / M3 20220709 Cloudy Moderate Mid-Flood Middle 3.2 13:08 8.82 8.13 31.75 27.84 3.41 3 0.303 SE / M3 20220709 Cloudy Moderate Mid-Flood Middle 3.2 13:08 8.84 8.13 31.75 27.84 3.41 3 0.303 SE / M3 20220709 Cloudy Moderate Mid-Flood Bottom 5.4 13:07 8.81 8.08 31.68 27.75 3.43 5 0.284 SE / M3 20220709 Cloudy Moderate Mid-Flood Bottom 5.4 13:07 8.82 8.10 31.66 27.75 3.38 3 0.267 SE / M3 20220709 Cloudy Moderate Mid-Flood Surface 1 14:22 9.15 8.23 32.40 27.98 2.90 5 0.293 SE / M4 20220709 Cloudy Moderate Mid-Flood Surface 1 14:22 9.15 8.23 32.35 28.14 2.95 4 0.308 SE / M4 20220709 Cloudy Moderate Mid-Flood Surface 1 14:22 9.15 8.21 32.26 28.13 2.64 4 0.279 SE / M3 20220709 Cloudy Moderate Mid-Flood Surface 1 14:22 9.15 8.21 32.26 28.13 2.64 4 0.279 SE / M3 20220709 Cloudy Moderate Mid-Flood Surface 1 14:22 9.15 8.21 32.26 28.13 2.64 4 0.279 SE / M3 20220709 Cloudy Moderate Mid-Flood Surface 1 14:22 9.15 8.21 32.26 28.13 2.64 4 0.279 SE / M3 20220709 Cloudy Moderate Mid-Flood Surface 1 14:22 9.15 8.21 32.26 28.13 2.64 4 0.279 SE / M3 20220709 Cloudy Moderate Mid-Flood Surface 1 14:22 9.15 S.21 32.26 28.13 2.64 4 0.279 SE / M3 20220709 Cloudy Moderate Mid-Flood Surface 1 14:22 9.15 S.21 32.26 28.13 2.64 4 0.279 SE / M3 20220709 Cloudy Moderate Mid-Flood Surface 1	M2	20220709	Cloudy	Moderate	Mid-Flood	Bottom	11.8	13:41	9.00		32.21	27.81	2.85		0.311 E	/
M3 20220709 Cloudy Moderate Mid-Flood Surface 1 13:09 8.85 8.11 31.75 27.77 3.82 3 0.277 SE / M3 20220709 Cloudy Moderate Mid-Flood Middle 3.2 13:08 8.82 8.13 31.69 27.79 3.68 3 0.308 SE / M3 20220709 Cloudy Moderate Mid-Flood Middle 3.2 13:08 8.84 8.13 31.75 27.84 3.41 3 0.303 SE / M3 20220709 Cloudy Moderate Mid-Flood Suttom 5.4 13:07 8.81 8.08 31.68 27.75 3.83 5 0.284 SE / M3 20220709 Cloudy Moderate Mid-Flood Suttom 5.4 13:07 8.81 8.08 31.68 27.75 3.83 3 0.267 SE / M3 20220709 Cloudy Moderate Mid-Flood Suttom 5.4 13:07 8.81 8.08 31.68 27.75 3.83 3 0.267 SE / M3 20220709 Cloudy Moderate Mid-Flood Sutface 1 14:22 9.15 8.23 32.40 27.98 2.90 5 0.293 SE / M3 20220709 Cloudy Moderate Mid-Flood Surface 1 14:22 9.15 8.23 32.40 27.98 2.90 5 0.293 SE / M3 20220709 Cloudy Moderate Mid-Flood Surface 1 14:22 9.15 8.23 32.60 27.81 2.54 4 0.279 SE / M3 20220709 Cloudy Moderate Mid-Flood Surface 1 14:22 9.27 8.19 3.255 28.14 2.54 4 0.279 SE / M3 2022079 SE / M3 2022079 Cloudy Moderate Mid-Flood Surface 1 14:22 9.27 8.19 3.255 28.14 2.54 4 0.279 SE / M3 2022079 SE / M3 2022079 Cloudy Moderate Mid-Flood Surface 1 14:22 9.27 8.19 3.256 28.13 2.64 4 0.279 SE / M3 2022079 SE / M3 2022079 Cloudy Moderate Mid-Flood Surface 1 14:22 9.27 8.19 3.256 28.13 2.64 4 0.279 SE / M3 2022079 SE / M3 202	M2															/
M3 20220709 Cloudy Moderate Mid-Flood Middle 3.2 13:08 8.82 8.13 31:69 27.79 3.68 3 0.308 SE // M3 20220709 Cloudy Moderate Mid-Flood Middle 3.2 13:08 8.84 8.13 31:69 27.79 3.68 3 0.303 SE // M3 20220709 Cloudy Moderate Mid-Flood Storm 5.4 13:07 8.81 8.08 31:68 27.75 3.43 5 0.284 SE // M3 20220709 Cloudy Moderate Mid-Flood Bottom 5.4 13:07 8.81 8.81 8.80 31:66 27.75 3.43 5 0.284 SE // M4 20220709 Cloudy Moderate Mid-Flood Surface 1 14:22 9.15 8.23 32.40 27.98 2.90 5 0.293 SE // M4 20220709 Cloudy Moderate Mid-Flood Surface 1 14:22 9.15 8.23 32.40 27.98 2.90 5 0.293 SE // M4 20220709 Cloudy Moderate Mid-Flood Surface 1 14:22 9.15 8.23 32.45 27.98 2.90 5 0.293 SE // M4 20220709 Cloudy Moderate Mid-Flood Surface 1 14:22 9.15 8.23 32.35 28:14 2.95 4 0.308 SE // M4 20220709 Cloudy Moderate Mid-Flood Surface 1 14:22 9.26 8.21 32.26 28:13 2.64 4 0.279 SE //	M3															/
M3 20220799 Cloudy Moderate Mid-flood Bottom 5.4 13:07 8.81 8.08 31.68 27.75 3.43 5 0.284 \$E / M. M3 20220799 Cloudy Moderate Mid-flood bottom 5.4 13:07 8.82 8.10 31.66 27.75 3.38 3 0.267 \$E / M. M4 20220799 Cloudy Moderate Mid-flood Surface 1 14:22 9.15 8.23 32.40 27.98 2.90 5 0.293 \$E / M. M4 20220799 Cloudy Moderate Mid-flood Surface 1 14:22 9.78 8.79 8.29 3.240 27.98 2.90 5 0.293 \$E / M. M4 20220799 Cloudy Moderate Mid-flood Surface 1 14:22 9.78 8.79 8.29 8.29 8.29 8.29 8.29 8.29 8.29 8.2	M3	20220709	Cloudy	Moderate	Mid-Flood			13:08	8.82	8.13	31.69	27.79	3.68		0.308 SE	/
M3 20220709 Cloudy Moderate Mid-Flood Sottom 5.4 13:07 8.82 8.10 31.66 27.75 3.38 3 0.267 SE // M4 20220709 Cloudy Moderate Mid-Flood Surface 1 14:22 9.15 8.23 32.40 27.98 2.90 5 0.293 SE // M4 20220709 Cloudy Moderate Mid-Flood Surface 1 14:22 9.15 8.23 32.40 27.98 2.90 5 0.293 SE // M4 20220709 Cloudy Moderate Mid-Flood Surface 1 14:22 9.26 8.21 32.26 28.13 2.64 4 0.308 SE // M4 20220709 Cloudy Moderate Mid-Flood Bottom 3.8 14:21 9.26 8.21 32.26 28.13 2.64 4 0.279 SE //	M3															/
M4 20220709 Cloudy Moderate Mid-Flood Surface 1 14:22 9.15 8.23 32.40 27.98 2.90 5 0.293 SE / M4 20220709 Cloudy Moderate Mid-Flood Surface 1 14:22 9.15 8.23 32.40 27.98 2.90 5 0.293 SE / M4 20220709 Cloudy Moderate Mid-Flood Bottom 3.8 14:21 9.26 8.21 32.26 28.13 2.64 4 0.279 SE /	M3 M3															/
M4 20220709 Cloudy Moderate Mid-Flood Bottom 3.8 14:21 9.26 8.21 32.26 28.13 2.64 4 0.279 SE /	M4	20220709	Cloudy	Moderate	Mid-Flood	Surface	1	14:22	9.15	8.23	32.40	27.98	2.90	5	0.293 SE	/
	M4															/
	M4 M4			Moderate Moderate					9.26	8.21	32.26 32.30	28.13 27.87	2.64			/

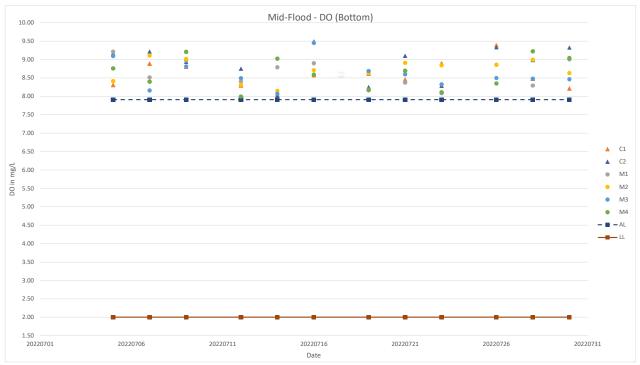
															T
Location C1	Date 20220712	Weather	Sea Condition Moderate	Tidal Mid-Flood	Water Level Surface	Depth (m)	Time 16:24		pH 8.11	Sal (ppt) 28.75	Temp (?) 27.80	Turbidty (NTU) 2.89	SS	Current Velocity (m/s) Current Direction 0.284 E	Remark
C1	20220712		Moderate	Mid-Flood	Surface	1		8.31 8.47	8.11	28.75	27.80	2.89	3		-/-
C1	20220712		Moderate	Mid-Flood	Middle	11	16:23	8.10	8.24	28.40	27.94	2.99	2.5	0.309 SE	/
C1	20220712 20220712		Moderate Moderate	Mid-Flood Mid-Flood	Middle Bottom	11 21		8.30 8.47	8.19	28.38 28.39	27.99 27.99	3.25 3.41	4		/
C1	20220712		Moderate	Mid-Flood	Bottom	21		8.78	8.03	28.67	27.93	3.24	3		/
C2	20220712	Cloudy	Moderate	Mid-Flood	Surface	1	15:02	8.42	8.12	28.55	27.83	3.41	2.5		/
C2 C2	20220712 20220712		Moderate Moderate	Mid-Flood Mid-Flood	Surface Middle	12.6	15:02 15:01	8.87 9.00	8.17	28.70 28.45	27.65 27.71	3.65 3.76	4		/
C2	20220712		Moderate	Mid-Flood	Middle	12.6	15:01	8.35	8.03	28.71	27.71	3.98	2.5	0.200 E	/
C2	20220712		Moderate	Mid-Flood	Bottom	24.2	15:00	8.98	8.25	28.44	27.72	3.90	3		/
C2 M1	20220712 20220712		Moderate Moderate	Mid-Flood Mid-Flood	Bottom Surface	24.2	15:00 15:40	8.52 8.59	8.19	28.66 28.56	27.80 27.78	4.02 3.11	3 4		-/-
M1	20220712		Moderate	Mid-Flood	Surface	1	15:40	8.05	8.10	28.64	27.79	2.96	2.5		//
M1	20220712		Moderate	Mid-Flood	Middle	3.5		9.15	8.19	28.46	27.90	2.68	2.5	0.308 SE	/
M1 M1	20220712 20220712		Moderate Moderate	Mid-Flood Mid-Flood	Middle Bottom	3.5		8.97 8.16	8.16	28.46 28.53	27.72 27.97	2.89 3.06	2.5		-/-
M1	20220712		Moderate	Mid-Flood	Bottom	6		8.65	8.03	28.41	27.84	2.70	2.5		/
M2	20220712		Moderate	Mid-Flood	Surface	1		8.12	8.06		27.89	2.48	2.5		/
M2 M2	20220712 20220712		Moderate Moderate	Mid-Flood Mid-Flood	Surface Middle	6.5		8.16 8.69	8.20	28.47 28.35	27.81 27.80	2.45 2.38	2.5		-/-
M2	20220712		Moderate	Mid-Flood	Middle	6.5	16:02	8.20	8.10	28.37	27.75	2.37	2.5		/
M2	20220712		Moderate	Mid-Flood	Bottom	12		8.34	8.09	28.45	27.93	2.62	2.5		/
M2 M3	20220712 20220712		Moderate Moderate	Mid-Flood Mid-Flood	Bottom Surface	12		8.29 9.05	8.19	28.37 28.35	27.82 27.71	2.35 2.28	2.5		-/-
M3	20220712	Cloudy	Moderate	Mid-Flood	Surface	1		8.31	8.18	28.62	27.81	2.55	2.5		/
M3	20220712		Moderate	Mid-Flood	Middle	4		9.10	8.13	28.74	27.68	2.63	2.5		/
M3 M3	20220712 20220712		Moderate Moderate	Mid-Flood Mid-Flood	Middle Bottom	7	15:19 15:18	8.17 8.43	8.06	28.35 28.47	27.82 27.61	2.29 2.50	2.5		/
M3	20220712	Cloudy	Moderate	Mid-Flood	Bottom	7	15:18	8.56	8.12	28.41	27.81	2.38	2.5	0.304 SE	/
M4	20220712		Moderate	Mid-Flood	Surface	1	16:45	8.01	8.03	28.59	27.87	2.75	2.5		/
M4 M4	20220712 20220712		Moderate Moderate	Mid-Flood Mid-Flood	Surface Bottom	4.3	16:45 16:44	7.98 8.46	8.03	28.53 28.71	27.88 28.03	2.83 2.68	2.5		//
M4	20220712	Cloudy	Moderate	Mid-Flood	Bottom	4.3	16:44	8.89	8.15	28.44	27.91	2.81	2.5	0.293 E	/
C1	20220714		Moderate	Mid-Flood	Surface	1	18:01	8.05	8.07	30.05	28.91	2.95	2.5		/
C1	20220714 20220714		Moderate Moderate	Mid-Flood Mid-Flood	Surface Middle	11.05	18:01 18:00	8.03 8.05	8.01	29.94 29.92	28.82 28.92	3.15 3.57	2.5		1
C1	20220714	Sunny	Moderate	Mid-Flood	Middle	11.05	18:00	8.07	8.05	29.89	28.91	3.18	2.5	0.300 E	/
C1	20220714		Moderate	Mid-Flood	Bottom	21.1	17:59	8.11	8.10	29.99	28.92	3.89	2.5		/
C1 C2	20220714 20220714		Moderate Moderate	Mid-Flood Mid-Flood	Bottom Surface	21.1	17:59 16:44	8.00 7.95	8.06	30.05 30.95	28.70 28.99	3.84 4.38	2.5		//
C2	20220714	Sunny	Moderate	Mid-Flood	Surface	1	16:44	7.99	8.23	30.95	29.09	4.20	2.5	0.265 SE	/
C2	20220714		Moderate	Mid-Flood	Middle	12.2		7.99	8.18	30.81	29.11	4.74	2.5		/
C2 C2	20220714 20220714		Moderate Moderate	Mid-Flood Mid-Flood	Middle Bottom	12.2 23.4	16:43 16:42	8.02 8.04	8.14	30.95 30.88	29.09 29.09	4.20 4.35	2.5		//
C2	20220714		Moderate	Mid-Flood	Bottom	23.4	16:42	8.00	8.13	30.84	28.95	4.69	2.5		//
M1	20220714		Moderate	Mid-Flood	Surface	1	17:21	8.81	8.01	30.97	28.85	2.07	2.5		/
M1 M1	20220714 20220714		Moderate Moderate	Mid-Flood Mid-Flood	Surface Middle	3.65	17:21 17:20	8.82 8.67	8.01	30.87 31.05	28.86 28.77	2.09	2.5		-/-
M1	20220714		Moderate	Mid-Flood	Middle	3.65	17:20	8.82	8.08	30.80	28.93	2.04	2.3		1
M1	20220714		Moderate	Mid-Flood	Bottom	6.3		8.74	8.05	30.95	28.79	2.09	2.5		/
M1 M2	20220714 20220714		Moderate Moderate	Mid-Flood Mid-Flood	Bottom Surface	6.3	17:19 17:44	8.84 8.23	7.98 8.16	30.87 30.24	28.68 28.65	2.18 3.43	2.5		-/-
M2	20220714		Moderate	Mid-Flood	Surface	1	17:44	8.25	8.19	30.34	28.74	3.24	2.5		/
M2	20220714		Moderate	Mid-Flood	Middle	7.05	17:43	8.21	8.11	30.41	28.53	3.58	3		/
M2 M2	20220714 20220714		Moderate Moderate	Mid-Flood Mid-Flood	Middle Bottom	7.05 13.1	17:43 17:42	8.06 8.09	8.20	30.50 30.47	28.66 28.53	3.46 3.34	2.5		-/-
M2	20220714		Moderate	Mid-Flood	Bottom	13.1	17:42	8.21	8.18	30.46	28.55	3.28	2.5		//
M3	20220714		Moderate	Mid-Flood	Surface	1	17:02	8.14	8.16	30.46	28.89	3.47	2.5		/
M3 M3	20220714 20220714		Moderate Moderate	Mid-Flood Mid-Flood	Surface Middle	3.25	17:02 17:01	8.11 8.11	8.26	30.45 30.44	28.90 28.76	3.50 3.27	2.5	0.272 E 0.282 SE	-/-
M3	20220714	Sunny	Moderate	Mid-Flood	Middle	3.25	17:01	8.05	8.22	30.45	28.81	3.26	3		/
M3	20220714		Moderate	Mid-Flood	Bottom	5.5	17:00	8.08	8.24	30.51	28.74	3.56	3		/
M3 M4	20220714 20220714		Moderate Moderate	Mid-Flood Mid-Flood	Bottom Surface	5.5		8.06 8.98	8.21	30.30 29.94	28.82 29.02	3.61 3.38	2.5		/
M4	20220714	Sunny	Moderate	Mid-Flood	Surface	1	18:21	9.07	8.08	29.82	28.99	3.63	2.5	0.282 E	/
M4	20220714		Moderate	Mid-Flood Mid-Flood	Bottom	3.9		9.12	8.06	29.94	28.78	3.51	2.5		_/
M4 C1	20220714 20220716		Moderate Moderate	Mid-Flood Mid-Flood	Bottom Surface	3.9	18:20 9:13	8.96 8.51	8.09	29.88 31.00	28.90 28.70	3.78 4.60	2.5		/
C1	20220716	Sunny	Moderate	Mid-Flood	Surface	1	9:13	8.66	8.15	30.96	28.83	4.45	8	0.287 SE	/
C1	20220716 20220716		Moderate Moderate	Mid-Flood Mid-Flood	Middle Middle	10.9 10.9		8.47 8.67	8.21	31.04 30.92	28.80 28.60	4.81 4.73	3		/
C1	20220716		Moderate	Mid-Flood Mid-Flood		20.8		8.67	8.20	30.92	28.60	5.00	4		//
C1	20220716	Sunny	Moderate	Mid-Flood	Bottom	20.8	9:11	8.61	8.18	30.86	28.68	5.15	6	0.302 SE	/
C2 C2	20220716 20220716		Moderate Moderate	Mid-Flood Mid-Flood	Surface Surface	1	8:02 8:02	9.30 9.50	8.31	30.65 30.80	28.90 28.90	4.94 5.21	5 4		/
C2	20220716		Moderate	Mid-Flood Mid-Flood	Middle	10.85	8:02 8:01	9.50	8.27		28.90	5.63	4		//
C2	20220716	Sunny	Moderate	Mid-Flood	Middle	10.85	8:01	9.47	8.27	30.76	29.02	5.53	7	0.299 E	/
C2	20220716 20220716		Moderate	Mid-Flood Mid-Flood	Bottom	20.7		9.45	8.26		28.96	5.82	7		/
C2 M1	20220716		Moderate Moderate	Mid-Flood Mid-Flood	Bottom Surface	20.7		9.53 8.77	8.23		29.02 28.70	5.70 3.71	2.5		1/
M1	20220716	Sunny	Moderate	Mid-Flood	Surface	1	8:37	8.77	8.30	31.40	28.72	3.88	4	0.297 SE	/
M1 M1	20220716		Moderate Moderate	Mid-Flood Mid-Flood	Middle Middle	3.2 3.2		8.94 8.90	8.30	31.55 31.36	28.90 28.80	3.86 3.74	3		/
M1 M1	20220716 20220716		Moderate Moderate	Mid-Flood Mid-Flood	Middle	3.2 5.4		8.90 8.83	8.23		28.80	3.74 4.11	3		1/
M1	20220716	Sunny	Moderate	Mid-Flood	Bottom	5.4	8:35	8.97	8.27	31.54	28.80	4.01	2.5	0.288 E	/
M2	20220716 20220716		Moderate	Mid-Flood	Surface	1		8.62	8.16		29.07	4.84	4		/
M2 M2	20220716		Moderate Moderate	Mid-Flood Mid-Flood	Surface Middle	6.3		8.68 8.58	8.17	31.18 31.13	29.03 29.01	4.73 4.83	2.5		1/
M2	20220716	Sunny	Moderate	Mid-Flood	Middle	6.3	8:54	8.59	8.25	31.04	29.10	4.62	2.5	0.287 SE	/
M2	20220716	Sunny	Moderate	Mid-Flood	Bottom	11.6		8.74	8.22	30.98	29.00	4.81	2.5		/
M2 M3	20220716 20220716		Moderate Moderate	Mid-Flood Mid-Flood	Bottom Surface	11.6		8.68 9.38	8.20		28.97 28.81	4.58 3.90	3 4		/
M3	20220716	Sunny	Moderate	Mid-Flood	Surface	1	8:20	9.38	8.22	31.11	28.63	3.85	3	0.268 E	/
M3	20220716		Moderate	Mid-Flood	Middle	4		9.28	8.27	31.01	28.65	3.97	2.5		/
M3 M3	20220716 20220716		Moderate Moderate	Mid-Flood Mid-Flood	Middle Bottom	7		9.35 9.50	8.29	31.00 30.97	28.84 28.82	3.99 3.61	3		//
M3	20220716	Sunny	Moderate	Mid-Flood	Bottom	7	8:18	9.40	8.30	31.02	28.70	3.63	2.5	0.284 SE	/
M4	20220716		Moderate	Mid-Flood	Surface	1		8.52	8.23	30.96	28.66	3.66	2.5		/
	20220716	ounny	Moderate	Mid-Flood	Surface	1		8.66 8.47	8.25 8.18	30.84	28.69 28.59	3.67 3.87	2.5		-/-
M4 M4	20220716	Sunny	Moderate	Mid-Flood	Bottom	3.7				30.82					

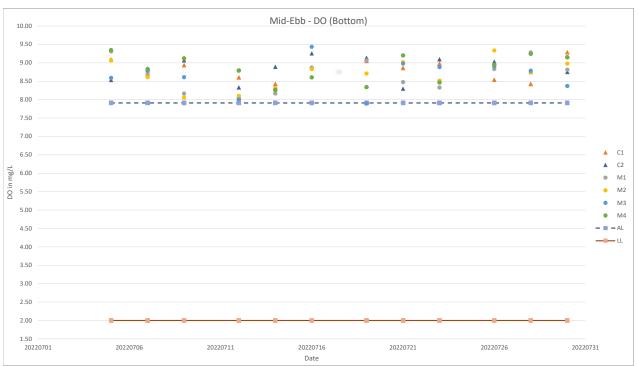
Location C1	Date 20220719	Weather	Sea Condition Moderate	Tidal Mid-Ebb	Water Level Surface	Depth (m)	Time 14:51		9.17	Sal (ppt) 30.53	Temp (?) 28.25	, , ,	SS	Current Velocity (m/s) Current Direction 0.297 E	Remark
C1	20220719		Moderate	Mid-Ebb	Surface	1	14:51	8.61 8.70	8.17	30.53	28.25	4.28 3.93	2.5	0.297 E 0.287 SE	/
C1	20220719		Moderate	Mid-Ebb	Middle	11.65	14:50	8.51	8.20	30.23	28.41	4.85	3	0.265 SE	/
C1	20220719 20220719		Moderate Moderate	Mid-Ebb Mid-Ebb	Middle Bottom	11.65 22.3	14:50 14:49	8.64 8.50	8.27	30.25 30.31	28.26 28.37	4.84 4.88	3 5		/
C1	20220719		Moderate	Mid-Ebb	Bottom	22.3		8.57	8.22	30.34	28.32	5.06	3		/
C2	20220719	Cloudy	Moderate	Mid-Ebb	Surface	1		8.36	8.34	31.03	28.62	3.65	3		/
C2 C2	20220719 20220719		Moderate Moderate	Mid-Ebb Mid-Ebb	Surface Middle	10.75	16:01 16:00	8.46 8.29	8.37	31.06 31.07	28.71 28.73	3.44 4.19	3	0.289 E 0.292 SE	/
C2	20220719		Moderate	Mid-Ebb	Middle	10.75	16:00	8.42	8.31	31.24	28.57	3.84	6		/
C2	20220719		Moderate	Mid-Ebb	Bottom	20.5	15:59	8.22	8.37	31.29	28.59	4.52	2.5	0.272 SE	/
C2 M1	20220719 20220719		Moderate Moderate	Mid-Ebb Mid-Ebb	Bottom Surface	20.5		8.28 8.06	8.35	31.36 31.55	28.71 28.35	4.36 3.28	5		/
M1	20220719		Moderate	Mid-Ebb	Surface	1		8.05	8.28	31.51	28.38	2.91	4		/
M1	20220719		Moderate	Mid-Ebb	Middle	3.4		8.10	8.26	31.54	28.46	3.10	3		/
M1 M1	20220719 20220719		Moderate Moderate	Mid-Ebb Mid-Ebb	Middle Bottom	3.4 5.8		8.14 8.18	8.27	31.77 31.74	28.33 28.49	3.06 3.09	2.5	0.274 SE 0.290 SE	/
M1	20220719		Moderate	Mid-Ebb	Bottom	5.8		8.18	8.25	31.72	28.48	2.82	2.5	0.276 SE	/
M2	20220719		Moderate	Mid-Ebb	Surface	1		8.74	8.29	31.46	28.44	3.02	3	0.281 SE	/
M2 M2	20220719 20220719		Moderate Moderate	Mid-Ebb Mid-Ebb	Surface Middle	6.55	15:10 15:09	8.58 8.63	8.33	31.61 31.66	28.29 28.47	3.19 3.31	4		/
M2	20220719		Moderate	Mid-Ebb	Middle	6.55	15:09	8.68	8.31	31.42	28.39	3.42	3		/
M2	20220719		Moderate	Mid-Ebb	Bottom	12.1	15:08	8.63	8.28	31.62	28.43	3.27	2.5	0.274 SE	/
M2 M3	20220719		Moderate Moderate	Mid-Ebb Mid-Ebb	Bottom Surface	12.1	15:08 15:45	8.63 8.69	8.32	31.33 30.57	28.43 28.28	2.98 2.97	3	0.287 E 0.264 SE	/
M3	20220719	Cloudy	Moderate	Mid-Ebb	Surface	1		8.82	8.31	30.41	28.41	2.92	3	0.284 SE	/
M3	20220719		Moderate	Mid-Ebb	Middle	3.45		8.85	8.34	30.22	28.18	2.71	5		/
M3 M3	20220719 20220719		Moderate Moderate	Mid-Ebb Mid-Ebb	Middle Bottom	3.45 5.9		8.67 8.74	8.28	30.50 30.18	28.38 28.24	3.02 3.16	2.5	0.277 E 0.295 E	/
M3	20220719	Cloudy	Moderate	Mid-Ebb	Bottom	5.9	15:43	8.64	8.33	30.44	28.22	2.89	2.5	0.264 SE	/
M4	20220719		Moderate	Mid-Ebb	Surface	1		8.04	8.13	30.48	28.28	3.50	4	0.284 SE	/
M4 M4	20220719 20220719		Moderate Moderate	Mid-Ebb Mid-Ebb	Surface Bottom	3.6		8.30 8.14	8.11	30.45 30.36	28.25 28.39	3.53 3.70	2.5	0.298 E 0.293 E	/
M4	20220719	Cloudy	Moderate	Mid-Ebb	Bottom	3.6	16:20	8.07	8.08	30.60	28.37	3.38	4	0.286 SE	/
C1 C1	20220721 20220721		Moderate Moderate	Mid-Flood Mid-Flood	Surface Surface	1	_	8.45 8.47	8.28	30.73 30.54	28.86 28.72	3.81	2.5	0.288 SE 0.295 SE	/
C1	20220721		Moderate	Mid-Flood Mid-Flood	Middle	9.95	11:45	8.47	8.33	30.54	28.72	3.65 3.82	2.5	0.295 SE 0.289 E	/
C1	20220721	Cloudy	Moderate	Mid-Flood	Middle	9.95	11:44	8.39	8.30	30.63	28.64	3.75	2.5	0.302 SE	/
C1	20220721 20220721		Moderate Moderate	Mid-Flood Mid-Flood	Bottom	18.9 18.9		8.38 8.41	8.35	30.80 30.79	28.73 28.70	3.90 4.13	2.5	0.311 E 0.266 SE	/
C2	20220721		Moderate	Mid-Flood	Surface	10.5		8.98	8.35	30.75	28.50	4.03	12		/
C2	20220721		Moderate	Mid-Flood	Surface	1		8.98	8.32	31.00	28.62	4.27	10		/
C2 C2	20220721 20220721		Moderate Moderate	Mid-Flood Mid-Flood	Middle Middle	12.8 12.8		9.09	8.34	30.77 30.99	28.51 28.60	4.38 4.41	2.5		/
C2	20220721		Moderate	Mid-Flood	Bottom	24.6		9.11	8.28	30.83	28.69	4.70	16		/
C2	20220721		Moderate	Mid-Flood	Bottom	24.6		9.09	8.34	30.78	28.51	4.68	15	0.299 SE	/
M1 M1	20220721		Moderate Moderate	Mid-Flood Mid-Flood	Surface Surface	1 1		8.41 8.39	8.34	30.71 30.78	28.76 28.75	2.66 2.71	3	0.303 SE 0.290 E	/
M1	20220721		Moderate	Mid-Flood	Middle	3.55		8.47	8.34	30.73	28.66	2.64	3		/
M1	20220721		Moderate	Mid-Flood	Middle	3.55	11:10	8.32	8.31	30.93	28.65	2.53	3		/
M1 M1	20220721 20220721		Moderate Moderate	Mid-Flood Mid-Flood	Bottom	6.1		8.34 8.41	8.31	30.81 30.88	28.65 28.72	2.69 2.43	3		/
M2	20220721		Moderate	Mid-Flood	Surface	1		8.86	8.23	31.48	28.90	3.12	2.5	0.285 SE	/
M2	20220721		Moderate	Mid-Flood	Surface	1	11:27	8.84	8.27	31.60	28.73	2.95	2.5	0.279 E	/
M2 M2	20220721		Moderate Moderate	Mid-Flood Mid-Flood	Middle Middle	6.95 6.95		8.91 8.88	8.32	31.44 31.43	28.70 28.76	3.23 3.41	2.5	0.292 SE 0.304 E	/
M2	20220721	Cloudy	Moderate	Mid-Flood	Bottom	12.9	11:25	8.99	8.29	31.47	28.79	3.37	3	0.297 E	/
M2	20220721		Moderate	Mid-Flood	Bottom	12.9		8.83	8.24	31.50	28.67	2.99	3		/
M3 M3	20220721 20220721		Moderate Moderate	Mid-Flood Mid-Flood	Surface Surface	1 1	10:54 10:54	8.57 8.58	8.35	31.85 31.80	28.75 28.97	2.98 3.03	2.5	0.305 E 0.277 SE	/
M3	20220721	Cloudy	Moderate	Mid-Flood	Middle	3.85	10:53	8.56	8.32	31.83	28.87	3.38	3	0.310 E	/
M3	20220721		Moderate	Mid-Flood	Middle	3.85	10:53	8.63	8.34	31.71	28.98	3.24	2.5	0.264 SE	/
M3 M3	20220721 20220721		Moderate Moderate	Mid-Flood Mid-Flood	Bottom	6.7		8.57 8.63	8.36	31.79 31.81	28.85 28.80	3.06 3.38	2.5	0.263 SE 0.307 SE	/
M4	20220721	Cloudy	Moderate	Mid-Flood	Surface	1	12:02	8.67	8.31	31.11	28.65	2.69	2.5	0.276 E	/
M4 M4	20220721		Moderate Moderate	Mid-Flood Mid-Flood	Surface Bottom	3.8		8.72 8.75	8.31	31.36 31.33	28.68 28.52	2.33 2.73	2.5		/
M4	20220721		Moderate	Mid-Flood Mid-Flood	Bottom	3.8		8.75	8.28	31.33	28.52	2.47	2.5	0.303 E 0.289 SE	/
C1	20220723	Sunny	Moderate	Mid-Flood	Surface	1	9:26	8.88	8.18	30.29	29.03	2.97	3	0.303 SE	/
C1	20220723 20220723		Moderate Moderate	Mid-Flood Mid-Flood	Surface Middle	10.6	0.20	8.87 8.92	8.07	30.35 30.57	29.19 29.15	2.84 2.76	3	0.281 SE 0.264 SE	/
C1	20220723	Sunny	Moderate	Mid-Flood Mid-Flood	Middle	10.6		8.92	8.20	30.57	29.15	2.76	4		/
C1	20220723	Sunny	Moderate	Mid-Flood		20.2	9:24	8.89	8.20	30.58	29.22	3.35	2.5	0.288 SE	/
C1 C2	20220723 20220723		Moderate Moderate	Mid-Flood Mid-Flood	Bottom Surface	20.2		8.79 8.36	8.19		29.09 28.98	3.49 3.48	3		/
C2	20220723		Moderate	Mid-Flood	Surface	1		8.32	8.28		29.00	3.48	4		/
C2	20220723	Sunny	Moderate	Mid-Flood	Middle	10.9	8:01	8.35	8.33	30.39	29.13	3.44	2.5	0.285 SE	/
C2 C2	20220723 20220723		Moderate Moderate	Mid-Flood Mid-Flood	Middle Bottom	10.9		8.28 8.27	8.39	30.62 30.61	29.09 29.04	3.55 3.76	2.5		/
C2	20220723		Moderate	Mid-Flood	Bottom	20.8		8.30	8.40		28.95	3.62	2.5		/
M1	20220723	Sunny	Moderate	Mid-Flood	Surface	1		8.06	8.24		28.98	2.44	3		/
M1 M1	20220723 20220723		Moderate Moderate	Mid-Flood Mid-Flood	Surface Middle	3.5		8.08 8.09	8.24	30.79 30.92	28.97 28.98	2.85 2.38	2.5		/
M1	20220723	Sunny	Moderate	Mid-Flood	Middle	3.5	8:41	8.11	8.32	31.02	28.97	2.82	3	0.264 E	/
M1	20220723		Moderate	Mid-Flood Mid-Flood	Bottom	6		8.12	8.31	30.85	29.00	2.43	2.5		/
M1 M2	20220723 20220723		Moderate Moderate	Mid-Flood Mid-Flood	Bottom Surface	6		8.05 8.82	8.23	30.88 30.68	29.07 28.95	2.57 2.23	2.5		/
M2	20220723	Sunny	Moderate	Mid-Flood	Surface	1	9:02	8.80	8.28	30.46	29.00	1.98	3	0.297 SE	/
M2	20220723	Sunny	Moderate	Mid-Flood	Middle	6.85		8.92	8.40		29.01	2.48	4		/
M2 M2	20220723 20220723		Moderate Moderate	Mid-Flood Mid-Flood	Middle Bottom	6.85 12.7	9:01 9:00	8.89 8.86	8.28	30.47 30.45	28.90 28.85	2.37 2.47	2.5		/
M2	20220723	Sunny	Moderate	Mid-Flood	Bottom	12.7	9:00	8.83	8.33	30.65	29.12	2.75	4	0.279 SE	/
M3	20220723		Moderate	Mid-Flood	Surface	1		8.37	8.24		28.93	3.15	3		/
M3 M3	20220723 20220723		Moderate Moderate	Mid-Flood Mid-Flood	Surface Middle	3.3		8.31 8.28	8.19		29.10 29.11	3.02 3.02	4		/
M3	20220723	Sunny	Moderate	Mid-Flood	Middle	3.3	8:22	8.30	8.19	30.76	29.09	3.27	4	0.284 SE	/
M3	20220723		Moderate	Mid-Flood	Bottom	5.6		8.33	8.19		28.93	3.22	3		/
M3 M4	20220723 20220723		Moderate Moderate	Mid-Flood Mid-Flood	Bottom Surface	5.6		8.32 8.06	8.24	31.08 30.19	29.10 29.11	3.05 2.54	3		/
M4	20220723	Sunny	Moderate	Mid-Flood	Surface	1	9:45	8.16	8.25	30.18	29.03	2.40	2.5	0.264 E	/
M4 M4	20220723		Moderate	Mid-Flood	Bottom	4.3		8.04	8.22	30.20	29.18	2.49	3		/
rv14	20220723	Journny	Moderate	Mid-Flood	POLLOW	4.3	9:44	7.99	8.25	30.26	29.16	2.52	2.5	0.303 SE	1/

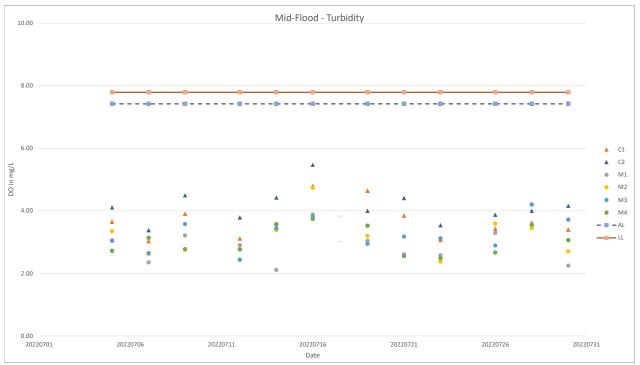
Location	Date	Weather	Sea Condition	Tidal	Water Level	Depth (m)	Time	DO (mg/L)	nH	Sal (ppt)	Temp (?)	Turbidty (NTU)	ss	Current Velocity (m/s)	urrent Direction	Remark
C1	20220726		Moderate	Mid-Flood	Surface	1	16:41	9.34	8.22	28.61	30.20	3.25	5	0.275 Si		/
C1	20220726		Moderate	Mid-Flood	Surface	1	16:41	9.35	8.28	28.72	30.32	3.07	5	0.303 Si		/
C1 C1	20220726		Moderate Moderate	Mid-Flood	Middle Middle	11.2 11.2	16:40 16:40	9.50 9.36	8.27 8.24	28.51 28.77	30.22 30.23	3.49 3.38	5	0.279 Si 0.268 Si		/
1	20220726 20220726		Moderate	Mid-Flood Mid-Flood	Bottom	21.4	16:40	9.36	8.24			3.58	3			/
1	20220726		Moderate	Mid-Flood	Bottom	21.4	16:39	9.45	8.27		30.20	3.78	4			/
22	20220726		Moderate	Mid-Flood	Surface	1	15:23	9.30	8.28		30.12	3.23	2.5			/
2	20220726		Moderate	Mid-Flood	Surface	1	15:23	9.36	8.25		30.25	3.09	5 4			/
2	20220726 20220726		Moderate Moderate	Mid-Flood Mid-Flood	Middle Middle	10.7 10.7	15:22 15:22	9.35 9.34	8.33 8.31		30.13 30.12	3.96 4.04	4			/
2	20220726		Moderate	Mid-Flood	Bottom	20.4	15:21	9.35	8.27	29.42	30.23	4.63	4			/
C2	20220726		Moderate	Mid-Flood	Bottom	20.4	15:21	9.32	8.25	29.32	30.09	4.29	6		E	/
M1	20220726		Moderate	Mid-Flood	Surface	1	16:00	8.90	8.22	28.56	30.00	3.47	6			/
M1	20220726		Moderate	Mid-Flood	Surface	1	16:00	8.87	8.18	28.53	29.86	3.20	5			/
M1 M1	20220726		Moderate	Mid-Flood	Middle Middle	3.6 3.6	15:59 15:59	8.89 8.77	8.17 8.17	28.37 28.38	29.89 29.85	3.37 3.23	5			/
M1	20220726 20220726		Moderate Moderate	Mid-Flood Mid-Flood	Bottom	6.2	15:59	8.77	8.25	28.48	29.85	3.05	6		E.	/
VII	20220726		Moderate	Mid-Flood	Bottom	6.2	15:58	8.77	8.17	28.57	29.95	3.45	4			/
VI2	20220726		Moderate	Mid-Flood	Surface	1	16:16	8.97	8.17	28.95	30.29	3.63	5			/
M2	20220726		Moderate	Mid-Flood	Surface	1	16:16	8.93	8.18		30.25	3.73	6			/
VI2	20220726		Moderate	Mid-Flood	Middle	6.7	16:15	8.81	8.16		30.14	3.65	3			/
V12 V12	20220726 20220726		Moderate Moderate	Mid-Flood Mid-Flood	Middle Bottom	6.7 12.4	16:15 16:14	8.83 8.79	8.15 8.16		30.32 30.30	3.41 3.61	3			/
M2	20220726		Moderate	Mid-Flood	Bottom	12.4		8.93	8.15		30.19	3.56	4			/
M3	20220726		Moderate	Mid-Flood	Surface	12.4	15:42	8.52	8.16		30.07	3.09	4			/
M3	20220726	Sunny	Moderate	Mid-Flood	Surface	1	15:42	8.42	8.15	29.50	30.13	2.85	3	0.267 S		/
VI3	20220726	Sunny	Moderate	Mid-Flood	Middle	3.4		8.48	8.15	29.12	30.02	2.93	4			/
VI3	20220726		Moderate	Mid-Flood	Middle	3.4		8.60	8.16		30.08	2.59	5		E	/
VI3	20220726 20220726		Moderate Moderate	Mid-Flood Mid-Flood	Bottom Bottom	5.8 5.8	15:40 15:40	8.44 8.56	8.13 8.15	29.29 29.21	30.15 30.10	3.00 2.90	5 6		F	/
VI3	20220726		Moderate	Mid-Flood	Surface	5.8	17:00	8.32	8.20	29.21	30.10	2.90	4		-	/
V14	20220726		Moderate	Mid-Flood	Surface	1	17:00	8.38	8.24		30.00	2.44	3	0.293 E		/
V14	20220726	Sunny	Moderate	Mid-Flood	Bottom	3.8	16:59	8.49	8.17	29.01	30.07	2.91	3	0.295 Si		/
M4	20220726		Moderate	Mid-Flood	Bottom	3.8	16:59	8.42	8.24		30.02	3.10	3	0.000		/
21	20220728		Moderate	Mid-Flood	Surface	1	17:44	8.50	8.11		29.02 29.09	3.42	2.5			/
C1 C1	20220728		Moderate Moderate	Mid-Flood Mid-Flood	Surface Middle	10.7	17:44 17:43	8.43 8.51	8.11		29.09	3.35 3.64	2.5			/
1	20220728		Moderate		Middle	10.7	17:43	8.48	8.10		28.98	3.55	2.5		-	/
C1	20220728		Moderate	Mid-Flood	Bottom	20.4	17:42	8.54	8.09	30.74	29.09	3.84	2.5	0.265 Si	E	/
01	20220728		Moderate	Mid-Flood	Bottom	20.4	17:42	8.41	8.14		28.97	3.91	2.5			/
C2	20220728		Moderate	Mid-Flood	Surface	1	16:22	9.04	8.31		29.22	3.76	2.5			/
C2 C2	20220728		Moderate Moderate	Mid-Flood Mid-Flood	Surface Middle	12.2	16:22 16:21	9.01 8.95	8.29 8.28		29.32 29.32	3.67 4.08	2.5			/
2	20220728		Moderate	Mid-Flood	Middle	12.2	16:21	8.99	8.27	30.62	29.32	3.90	2.5			/
22	20220728		Moderate	Mid-Flood	Bottom	23.4	16:20	8.98	8.30		29.20	4.38	2.5		E	/
C2	20220728		Moderate	Mid-Flood	Bottom	23.4	16:20	8.99	8.28	30.63	29.29	4.21	2.5	0.287 E		/
M1	20220728		Moderate	Mid-Flood	Surface	1	16:57	8.41	8.19		29.15	4.14	2.5			/
M1	20220728		Moderate	Mid-Flood	Surface	1	16:57	8.36	8.25	30.91 31.01	29.17	4.16	3	0.285 E	-	/
M1 M1	20220728		Moderate Moderate	Mid-Flood Mid-Flood	Middle Middle	3.35 3.35	16:56 16:56	8.41 8.41	8.20		29.10 29.21	4.00 4.18	2.5		E.	/
M1	20220728		Moderate	Mid-Flood	Bottom	5.7	16:55	8.30	8.23		29.21	4.53	2.5		E	/
M1	20220728		Moderate	Mid-Flood	Bottom	5.7	16:55	8.29	8.20		29.23	4.18	2.5			/
M2	20220728		Moderate	Mid-Flood	Surface	1	17:18	9.02	8.11		29.04	3.56	2.5		E	/
M2	20220728		Moderate	Mid-Flood	Surface	1	17:18	8.90	8.17		29.11	3.28	2.5		-	/
M2 M2	20220728		Moderate Moderate	Mid-Flood Mid-Flood	Middle Middle	5.8 5.8	17:17 17:17	8.96 9.04	8.17 8.12	30.86 30.85	29.12 29.04	3.48 3.52	2.5			/
M2	20220728		Moderate	Mid-Flood	Bottom	10.6	17:16	8.96	8.11	30.80	29.07	3.31	2.5			/
M2	20220728		Moderate	Mid-Flood	Bottom	10.6	17:16	9.03	8.12	30.76	29.07	3.56	2.5			/
M3	20220728		Moderate	Mid-Flood	Surface	1	16:40	8.41	8.19		29.10	4.24	3			/
M3	20220728		Moderate	Mid-Flood	Surface	1	16:40	8.41	8.19		29.13	4.33	2.5			/
M3 M3	20220728		Moderate Moderate	Mid-Flood Mid-Flood	Middle Middle	3.85 3.85	16:39 16:39	8.45 8.51	8.26 8.21	30.66 30.57	29.14 29.14	4.09 4.19	2.5		L .	,
M3	20220728		Moderate	Mid-Flood	Bottom	6.7	16:38	8.51	8.20		29.10	4.16	2.5			/
M3	20220728		Moderate	Mid-Flood	Bottom	6.7	16:38	8.45	8.25	30.53	29.19	4.23	2.5		E	/
M4	20220728		Moderate	Mid-Flood	Surface	1	18:05	9.24	8.20		29.05	3.56	2.5		E	/
M4	20220728		Moderate	Mid-Flood	Surface	1	18:05	9.21	8.19		29.03	3.66	2.5		-	/
M4 M4	20220728		Moderate	Mid-Flood	Bottom	4		9.30 9.22	8.20		29.09	3.59 3.43	2.5			/
M4 C1	20220728		Moderate Moderate	Mid-Flood Mid-Flood	Bottom Surface	1	18:04 9:03	9.22 8.16	8.24		29.06 29.81	3.43 2.90	2.5			/
C1	20220730		Moderate	Mid-Flood	Surface	1	9:03	8.25	8.30		29.97	2.75	2.5			/
C1	20220730	Cloudy	Moderate		Middle	10.85	9:02	8.19	8.29	27.73	29.94	3.42	2.5	0.272 Si	E	/
C1	20220730	Cloudy	Moderate	Mid-Flood	Middle	10.85	9:02	8.26	8.30	27.74	29.99	3.64	2.5	0.286 Si	E	/
21	20220730		Moderate	Mid-Flood	Bottom	20.7	9:01	8.25	8.31	27.62	30.00	3.94	2.5	0.291 Si	E	/
C1 C2	20220730		Moderate Moderate	Mid-Flood Mid-Flood	Bottom Surface	20.7	9:01 8:02	8.23 9.35	8.31	27.69 27.59	29.99 29.47	3.77 4.06	2.5		F	/
22	20220730		Moderate	Mid-Flood	Surface	1	8:02	9.35	8.32		29.47	3.85	2.5		-	/
C2	20220730	Cloudy	Moderate	Mid-Flood	Middle	12.9	8:01	9.33	8.28	27.70	29.67	4.15	2.5	0.281 Si		/
C2	20220730	Cloudy	Moderate	Mid-Flood	Middle	12.9	8:01	9.27	8.29	27.58	29.68	3.94	2.5	0.304 Si	E	/
22	20220730		Moderate		Bottom	24.8	8:00	9.33	8.29		29.46	4.55	2.5			/
C2 VI1	20220730 20220730		Moderate Moderate		Bottom Surface	24.8	8:00 8:31	9.32 8.96	8.32		29.69 29.72	4.38 2.25	2.5		F	/
И1 И1	20220730		Moderate		Surface	1		8.96	8.28			2.25	2.5			/
ν11 V11	20220730		Moderate		Middle	3.4		8.96	8.30			2.14	2.5			/
И1	20220730	Cloudy	Moderate	Mid-Flood	Middle	3.4	8:30	8.88	8.29	28.39	29.67	2.08	3	0.273 Si	E	/
/1	20220730		Moderate		Bottom	5.8	8:29	9.03	8.29		29.67	2.45	2.5			/
И1 42	20220730		Moderate		Bottom	5.8	8:29	8.98	8.25			2.18	3		E	/
И2 И2	20220730		Moderate Moderate	Mid-Flood Mid-Flood	Surface Surface	1	8:46 8:46	8.70 8.58	8.32 8.24		29.90 29.94	2.55 2.76	2.5			/
VI2 VI2	20220730		Moderate		Middle	6.25	8:45	8.58	8.24			2.76	2.5		E	/
л2 Л2	20220730		Moderate	Mid-Flood	Middle	6.25	8:45	8.65	8.25		29.71	2.52	2.5			/
Л 2	20220730	Cloudy	Moderate	Mid-Flood	Bottom	11.5	8:44	8.69	8.31	27.47	29.69	3.01	3	0.309 E		/
Л 2	20220730	Cloudy	Moderate	Mid-Flood	Bottom	11.5	8:44	8.58	8.32	27.35	29.90	2.65	2.5	0.268 Si		/
V13	20220730		Moderate	Mid-Flood	Surface	1	8:16	8.36	8.21		29.72	3.93	2.5			/
//3	20220730		Moderate		Surface	1	8:16	8.45	8.14			3.80	2.5		E	/
//3 //3	20220730 20220730		Moderate Moderate		Middle Middle	3.3 3.3	8:15 8:15	8.47 8.40	8.19 8.20		29.60 29.80	3.45 3.88	2.5		F	/
//3	20220730		Moderate		Bottom	5.6		8.40	8.15		29.80	3.63	2.5		-	/
vi3	20220730		Moderate		Bottom	5.6		8.46	8.20		29.79	3.64	2.5		E	/
/ 14	20220730	Cloudy	Moderate	Mid-Flood	Surface	1	9:19	9.10	8.12	27.99	29.72	3.18	3	0.310 E		/
		Cloudy	Moderate	Mid-Flood	Surface	1	9:19	8.98	8.18			3.16	2.5			/
л4 л4	20220730 20220730		Moderate		Bottom	3.5	9:18	9.07	8.16	27.84	29.76	2.97		0.303 E		

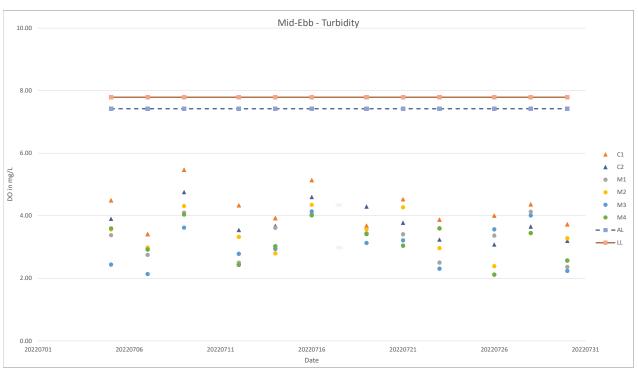


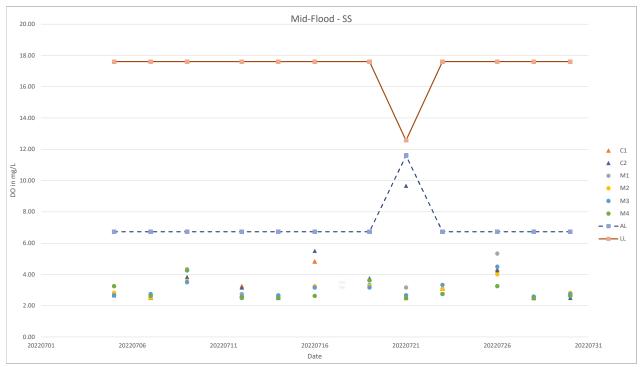


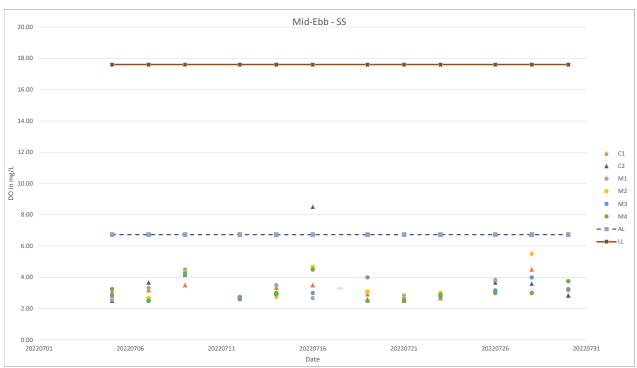
















Appendix J Complaint Log





Statistical Summary of Environmental Complaints

Reporting	Environmental Complaint Statistics						
Period	Frequency	Cumulative	Complaint Nature				
July 2022	0	0	N/A				

Statistical Summary of Environmental Summons

Reporting Period	Environmental Summons Statistics						
Period	Frequency	Cumulative	Details				
July 2022	0	0	N/A				

Statistical Summary of Environmental Prosecution

Reporting Period	Environmental Prosecution Statistics						
Perioa	Frequency	Cumulative	Details				
July 2022	0	0	N/A				