



生態系統顧問有限公司
ECOSYSTEMS LTD.

Your ref.
Our ref. 2486-1/LCS/L006

By Post and Email

Date: 20 September 2024

Environmental Protection Department
Environmental Assessment Division
Territory South Group
Lantau North West
27th Floor, Southorn Centre,
130 Hennessy Road, Wan Chai,
Hong Kong

Attn: Mr. Wong (EPD Env Protection Offr (Territory S)11)

Dear Sir,

**Contract No. PW 1/2024 Environmental Monitoring Works for Lung Kwu Chau Jetty
Repair Works
Submission of Baseline Monitoring Report (Issue 5)**

Pursuant to Conditions 4.5 of the EP No. EP-150/2002/A, we hereby submit the Baseline Monitoring Report (Issue 5) for the captioned Project at Lung Kwu Chau Jetty.

The aforesaid submission has been certified by the Environmental Team (ET) and verified by the Independent Engineer (IE). The ET certification and the IE verification letters have been enclosed for your record.

Should you have any questions please feel free to contact us.

Yours faithfully,

Vincent LAI (ET Leader)
Managing Director
Ecosystems Ltd.

cc CEDD Mr. Calvin Li (E/M2B, PWD, CEDD)

• Ecological Survey and Assessment • Habitat Management • Wetland and Eco-garden Design



生態系統顧問有限公司
ECOSYSTEMS LTD.

Your ref.
Our ref. 2486-1/LCS/L005

By Post and Email

Date: 20 September 2024

Civil Engineering and Development Department
Civil Engineering Office
Port Works Division
Maintenance Section 2
4/F, Civil Engineering and Development Building,
101 Princess Margaret Road, Homantin,
Kowloon

Attn: Mr. Li (CEDD Engr / Maintenance 2 B)

Dear Sir,

**Contract No. PW 1/2024 Environmental Monitoring Works for Lung Kwu Chau Jetty
Repair Works
Certification of Baseline Monitoring Report (Issue 5)**

Pursuant to Conditions 4.5 of the EP No. EP-150/2002/A, we hereby certify the Baseline Monitoring Report (Issue 5) for the captioned Project at Lung Kwu Chau Jetty.

Should you have any questions please feel free to contact us.

Yours faithfully,

Vincent LAI (ET Leader)
Managing Director
Ecosystems Ltd.

cc Independent Engineer Mr. Ivan Ting

By Post

Our Ref : P240304 -BMR-202409-V3

Date : 20th September 2024

Civil Engineering and Development Department
Civil Engineering Office
Port Works Division
Maintenance Section 2
4/F, Civil Engineering and Development Building,
101 Princess Margaret Rd, Homantin, Kowloon

Attn: Mr. Kalvin Li

Agreement No. PW 2/2024**Independent Environmental Checker for Lung Kwu Chau Jetty Repair Works****Baseline Monitoring Report (Issue 5)**

Dear Sir,

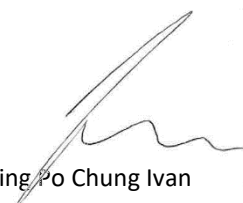
Pursuant to Condition 4.5 of Environmental Permit (EP) No. EP-150/2002/A, please note the Baseline Monitoring Report (Issue 5), dated 17 September 2024 submitted under the EP, certified by the Environmental Team Leader on 20 September 2024, had been reviewed and is hereby verified.

Should you have any query, please feel free to contact the undersigned at 3756 9590 or ivanting@umwelt.consulting.

Your faithfully,

For and on behalf of:

Umwelt Consulting Limited



Ting Po Chung Ivan
Independent Engineer

Contract No. PW 1/2024
Environmental Monitoring Works for Lung Kwu Chau
Jetty Repair Works

Baseline Monitoring Report
(Issue 5)



Ecosystems Limited

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ISSUES AND REVISION RECORD

Issue	Date	Description
1	26 Aug 2024	Draft Issue
2	30 Aug 2024	Second Issue
3	4 September 2024	Third Issue
4	6 September 2024	Issue submitted to EPD
5	17 September 2024	Issue approved by EPD

	Name	Role	Signature	Date
Prepared by	Klinsmann CHEUNG	Ecologist		6/09/2024
Approved by	Vincent LAI	Environmental Team Leader		6/09/2024

EXECUTIVE SUMMARY

The Lung Kwu Chau Jetty (the Jetty) is situated within the Sha Chau and Lung Kwu Chau Marine Park, the construction and operation of the Jetty is a designated project, a statutory EIA process was conducted, and the Environmental Impact Assessment (EIA) report was approved in November 2002 (Register No.: AEIAR-066/2002). The current Environmental Permit (EP) (EP No. EP-150/2002/A) was granted by the Director of Environmental Protection to CEDD in May 2003, and the construction works were completed in November 2003. However, substantial repair works would be required after inspection by CEDD in 2023.

The EP was issued to CEDD for the construction and operation of the Jetty, and the proposed repair works could be covered by the existing scope of EP. Ecosystems Ltd. is commissioned by CEDD as the Environmental Team to take into account the environmental monitoring requirements recommended in the EM&A Manual and EIA Report.

According to the EM&A Manual, baseline marine water monitoring was carried out at 3 designated monitoring stations from 15 July 2024 to 12 August 2024.

Monitoring parameters including Dissolved Oxygen, Turbidity and Suspended Solids, and other relevant data (such as water depth, monitoring time, water temperature, salinity, pH, Dissolved Oxygen Saturation (%), tidal stages, weather and sea conditions) were recorded during the baseline monitoring.

The average of Dissolved Oxygen, Turbidity and Suspended Solids were in the range of 3.63-9.12 mg/L (surface and middle depth) and 3.15-9.15 mg/L (bottom depth), 1.58-28.54 NTU and 2-47 mg/L respectively.

The measured results of the monitoring parameters are considered representative of the pre-construction ambient conditions prior to the commencement of the works.

The baseline monitoring results were adopted to establish the Action and Limit Levels, which are summarized below:

Parameters	Action Level	Limit Level
Dissolved Oxygen (DO), in mg/L (Surface, Middle and Bottom)	<u>Surface and Middle</u> 5.05 mg/L <u>Bottom</u> 3.94 mg/L	<u>Surface and Middle</u> 4 mg/L or 3.68 mg/L <u>Bottom</u> 2 mg/L or 3.17 mg/L
Suspended Solids (SS), in mg/L (Depth-averaged)	20.95 mg/L or 120% of upstream control station's SS at the same tide of the same day	41.82 mg/L or 130% of the upstream control station's SS at the same tide on the same day
Turbidity in NTU (Depth-averaged)	15.29 NTU or 120% of the upstream control station's turbidity at the same tide on the same day	22.57 NTU or 130% of the upstream control station's turbidity at the same tide on the same day

1. INTRODUCTION

1.1 Background

1.1.1 The Lung Kwu Chau Jetty (the Jetty) is situated within Sha Chau and Lung Kwu Chau Marine Park which is managed by the Civil Aviation Department (CAD) and maintained by Port Works Division (PWD) of Civil Engineering and Development Department (CEDD). Since the Jetty is situated within the marine park, the construction and operation of the Jetty is a designated project, a statutory EIA process was conducted, and the Environmental Impact Assessment (EIA) report was approved in November 2002 (Register No.: AEIAR-066/2002). The current Environmental Permit (EP) (EP No. EP-150/2002/A) was granted by the Director of Environmental Protection to CEDD in May 2003, and the construction works were completed in November 2003.

1.1.2 Further to the previous repair works, PWD inspected the Jetty in November 2023 and considered that substantial repair works would be required. Location plan of the works area is shown in **Figure 1**. The scope of the works comprises:

- (i) removing damaged pier slab at the Jetty;
- (ii) taking down and refixing the dislocated concrete blocks;
- (iii) concreting the pier slab at the Jetty; and
- (iv) installing anchor posts on the Jetty.

1.1.3 The EP (EP No. EP-150/2002/A) was issued to CEDD for the construction and operation of the Jetty, and the proposed repair works could be covered by the existing scope of EP. Ecosystems Ltd. is commissioned by CEDD as the Environmental Team to take into account the environmental monitoring requirements recommended in the EM&A Manual and EIA Report.

1.1.4 In accordance with the approved EIA Report, an EM&A programme is recommended to ensure compliance with the EIA study recommendations, to assess the effectiveness of the recommended mitigation measures and to identify any further need for additional mitigation measures or remedial action.

1.2 Objective of the Report

1.2.1 This Baseline Monitoring Report is prepared in accordance with the requirements as set out in the EM&A Manual of the Project (Register No. AEIAR-066/2002) and shall be applicable to fulfilling relevant Conditions in Clause 4 of the EP No. EP-150/2002/A.

2. BASELINE WATER QUALITY MONITORING

2.1 Summary of EM&A Manual's Requirement

2.1.1 In accordance with the EM&A Manual under the Project, baseline conditions for water quality shall be established and agreed with EPD prior to the commencement of construction works (i.e. including the proposed repair works). The baseline water quality monitoring shall be conducted for at least 4 weeks prior to the commencement of construction works (i.e. the proposed repair works) with a frequency of 3 days in a week, at mid-flood and mid-ebb tides. The interval between two sets of monitoring shall not be less than 36 hours. The baseline conditions shall include the water quality parameters specified in the EM&A Manual, including dissolved oxygen (DO), dissolved oxygen saturation (DO%), temperature, turbidity, salinity, pH and suspended solids (SS) in the water body at all designated monitoring station for the Project. Further details of the baseline water quality monitoring under this Project are presented in the following sections.

2.2 Monitoring Locations

2.2.1 There were 3 monitoring stations and 2 control stations in the original EM&A Manual. However, due to the scale of the proposed repair works, together with no marine works will be required (i.e. all works will be conducted above the high water mark within the existing Jetty), only 1 monitoring station and 2 control stations was proposed and agreed with EPD for the marine water monitoring. The marine water quality monitoring stations during the baseline monitoring, construction monitoring and post-construction monitoring are shown in **Figure 2**. The coordinates of the monitoring stations are listed in **Table 2.1**.

Table 2.1 Coordinates of the Monitoring Site and Control Sites

Monitoring/Control Station	Easting	Northing
C1	806116	827618
C2	806034	825308
M2	806329	826408

2.3 Monitoring Parameters

2.3.1 Monitoring parameters listed in **Table 2.2** were measured by the ET to ensure that any deteriorating water quality could be readily detected and timely action be taken to rectify the situation. **Table 2.3** shows the other relevant water quality data were also recorded during the monitoring.

Table 2.2 Monitoring Parameters

In-situ measurement	Laboratory analysis
Dissolved Oxygen (mg/L)	Suspended solids (mg/L)
Turbidity (NTU)	

Table 2.3 Other Relevant Water Quality Parameters

Water quality parameters	
Tidal stages	Ambient temperature and marine water temperature (°C)
Water depth (m)	Dissolved Oxygen saturation (%)
Monitoring time (hr:mm)	Salinity (ppt)
Weather condition	pH

2.4 Monitoring Frequency

2.4.1 The monitoring frequency during baseline monitoring is summarized in **Table 2.4**. The baseline monitoring programme is shown in **Table 2.5**.

Table 2.4 Monitoring Frequency of Baseline Water Quality Monitoring

Frequency	Monitoring depth
3 days/week, 2 tides/day	1m below water surface, mid-depth and 1m above sea bed

Table 2.5 Baseline Monitoring Programme

Monitoring Date	1st Tide Monitoring	2nd Tide Monitoring
15/7/2024 (Mon)	9:00 Mid-Ebb	14:00 Mid-Flood
17/7/2024 (Wed)	11:30 Mid-Ebb	17:30 Mid-Flood
19/7/2024 (Fri)	13:00 Mid-Ebb	19:00 Mid-Flood
22/7/2024 (Mon)	15:00 Mid-Ebb	20:30 Mid-Flood
24/7/2024 (Wed)	9:00 Mid-Flood	15:00 Mid-Ebb
26/7/2024 (Fri)	10:00 Mid-Flood	16:00 Mid-Ebb
27/7/2024 (Sat)	11:00 Mid-Flood	17:00 Mid-Ebb
29/7/2024 (Mon)	8:30 Mid-Ebb	14:00 Mid-Flood
31/7/2024 (Wed)	11:00 Mid-Ebb	17:00 Mid-Flood
2/8/2024 (Fri)	13:00 Mid-Ebb	19:00 Mid-Flood
5/8/2024 (Mon)	15:00 Mid-Ebb	21:00 Mid-Flood
7/8/2024 (Wed)	8:00 Mid-Flood	14:00 Mid-Ebb
9/8/2024 (Fri)	9:00 Mid-Flood	15:00 Mid-Ebb
12/8/2024 (Mon)	11:00 Mid-Flood	17:00 Mid-Ebb

* Due to adverse sea conditions on 26/7/2024, the schedule was postponed to 27/7/2024. However, the sea conditions were also not appropriate for marine

monitoring after communication with vessel operator and hence cancelled. A make-up monitoring was conducted on 12/8/2024.

2.5 **Monitoring Methodology and Equipment Used**

Positioning of the monitoring stations

2.5.1 A hand-held digital Global Positioning System (GPS) was used to identify the designated monitoring stations prior to water sampling.

Water depth measurement

2.5.2 A portable, battery-operated echo sounder was used for the determination of water depth at each designated monitoring station.

Water quality multi-meter

2.5.3 Portable, weatherproof multi-meter with built-in salinity compensation (YSI ProDSS) was used in the monitoring. It could be capable for measuring:

- A dissolved oxygen level in the range of 0-20 mg/L and 0-200% saturation;
- A temperature of 0-45 degree Celsius
- Turbidity with photoelectric sensor between 0-1000 NTU
- Salinity in the range 0-40 ppt

Water sampling and sample analysis

2.5.4 In-situ monitoring was carried out at three depths: 1 meter below water surface, at mid-depth and 1 meter above the seabed. If the water depth is less than 6m, the mid-depth station was omitted and if the water depth is below 3m, only the mid depth station was monitored.

2.5.5 A water sampler comprising a transparent PVC cylinder, with a capacity of not less than 2 liters, was lowered into the water body at the predetermined depth. The opening ends of the sampler were then be closed accordingly, and water samples were collected.

2.5.6 The sample container, made by high-density polythene, was rinsed with a portion of the water sample. The water sample was then transferred to the container, labelled with a unique sample ID and sealed with a screw cap. The water samples were then be delivered to a local HOKLAS-accredited laboratory (ALS Technichem (HK) Pty Ltd) within 24 hours for analysis.

2.6 **Quality Assurance (QA) / Quality Control (QC) results and Determination Limits**

2.6.1 The in-situ monitoring multi-meter was checked, calibrated and certified by a laboratory accredited under HOKLAS before use, and subsequently re-calibrated at 3 monthly intervals, if necessary. At each measurement/sampling depth, two consecutive measurements of dissolved oxygen (DO), dissolved oxygen saturation (DOS), turbidity and salinity were taken. For the in-situ parameters to be measured, duplicate measurements were performed by

dropping the calibrated probes of the multi-meter (i.e. YSI ProDSS) to the designated depths of the water column and taking readings after stabilized. The duplicate measurements were averaged if the difference is not greater than 25%.

2.6.2 The summary of laboratory testing method of total suspended solids analysis is shown in **Table 2.6**.

Table 2.6 Summary of Laboratory Testing Method of Total Suspended Solids

Laboratory analysis	Testing procedure	Method detection limit
Total suspended solids	American Public Health Association (APHA) Standard Methods for the Examination of Water and Wastewater, 23rd edition, 2540D or equivalent method	2mg/L

2.7 Details of Site Equipment Used for In-situ Measurement

2.7.1 List of in-situ Water Quality Monitoring Equipment is shown in **Table 2.7**. All of the monitoring equipment complied with the requirements as set out in the EM&A Manual. All the monitoring instrument / equipment has been checked, calibrated and certified by a laboratory accredited under HOKLAS. The calibration certificates are attached in **Appendix A**.

Table 2.7 Details Baseline Monitoring Equipment (In-situ measurement)

Parameter	Model (serial no., if any)	Date of Calibration / Performance check	Due Date
Coordinate of Monitoring stations	Garmin eTrex 30	N/A	N/A
Dissolved Oxygen (% and Saturation), Temperature	YSI ProDSS ODO optical dissolved (24F100112)	12/7/2024	11/10/2024
Turbidity	YSI ProDSS Turbidity (24E105092)	12/7/2024	11/10/2024
Salinity	YSI ProDSS Conductivity (24F101051)	12/7/2024	11/10/2024
pH	YSI ProDSS pH sensor (24G100579)	12/7/2024	11/10/2024
Water Depth	HONDEX PS-7	N/A	N/A

3. RESULTS AND OBSERVATION

3.1 Results

Determination of Action and Limit Level

3.1.1 The data of marine water quality parameters carried out at 3 monitoring stations (C1, C2 & M2) at Lung Kwu Chau during baseline monitoring period (from 15/7/2024 to 12/8/2024) were attached in **Appendix B1 & B2**.

3.1.2 During collection of water samples for SS on 17 July 2024, it was noted from visual inspection that the samples from monitoring station M2 of both Mid-Ebb and Mid-Flood bottom level were relatively turbid due to unknown reason. After measurement from the laboratory, the results of SS (M2 station from both Mid-ebb and Mid-Flood bottom level) were abnormally high (i.e. greater than 90mg/L in Mid-Ebb's samples, and greater than 150mg/L in Mid-Flood's samples), which were much higher than the correspondence samples of the other days (mostly <10mg/L). Hence, the SS results from both Mid-Ebb and Mid-Flood bottom level of monitoring station M2 on 17 July 2024 were excluded from the determination of Action and Limit Level.

3.1.3 Summary statistics for each monitoring parameter in station M2 including range, mean and percentiles based on depth-averaged data are given in **Table 3.1**.

Table 3.1 Summary of Statistics of Baseline Monitoring Parameters at Lung Kwu Chau

Parameter	Mean (Range)	95%ile (5%ile)	99%ile (1%ile)
DO (Surface and Middle) in mg/L	6.29 (3.65-9.12)	(5.05)	(3.68)
DO (Bottom) in mg/L	5.64 (3.15-9.15)	(3.94)	(3.17)
SS* in mg/L	7.81 (2-47)	20.95	41.82
Turbidity* in NTU	6.29 (1.75-23.03)	15.29	22.57

*Depth-averaged, which is calculated by taking arithmetic means of reading of all three depths.

3.1.4 Action Level (AL) and Limit Level (LL) for Marine Water Monitoring Parameters at Lung Kwu Chau are determined according to the following **Table 3.2** (reference source: Guidelines for Development Projects in Hong Kong).

Table 3.2 Action and Limit Level for Marine Water Quality

Parameters	Action Level	Limit Level
Dissolved Oxygen (DO), in mg/L (Surface, Middle and Bottom)	<u>Surface and Middle</u> 5 percentile of baseline data <u>Bottom</u> 5 percentile of baseline data	<u>Surface and Middle</u> 4 mg/L or 1 percentile of baseline data <u>Bottom</u> 2 mg/L or 1 percentile of baseline data
Suspended Solids (SS), in mg/L (Depth-averaged)	95 percentile of baseline data or 120% of upstream control station's SS at the same tide of the same day	99 percentile of baseline or 130% of the upstream control station's SS at the same tide on the same day
Turbidity in NTU (Depth-averaged)	95 percentile of baseline data or 120% of the upstream control station's turbidity at the same tide on the same day	99 percentile of baseline or 130% of the upstream control station's turbidity at the same tide on the same day

Remarks:

1. "Depth-averaged" is calculated by taking the arithmetic means of reading of all three depths.
2. For turbidity and SS, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.
3. For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.
4. All the figures given in the table are used for reference only and EPD may amend the figures whenever it is considered as necessary.

3.1.5 The calculated Action and Limit Levels for the monitoring of the proposed repair works based on the baseline water quality monitoring results are shown in **Table 3.3**.

3.1.6 In case of any exceedance of the Action or Limit Levels, appropriate actions set out in the Event and Action Plan (Refer to the EM&A Manual Table 2.3, Event and Action Plan for Water Quality) shall be taken upon ETL's notification.

Table 3.3 Action and Limit Level for Marine Water Quality at Lung Kwu Chau

Parameters	Action Level	Limit Level
------------	--------------	-------------

Dissolved Oxygen (DO), in mg/L (Surface, Middle and Bottom)	<u>Surface and Middle</u> 5.05 mg/L	<u>Surface and Middle</u> 4 mg/L or 3.68 mg/L
	<u>Bottom</u> 3.94 mg/L	<u>Bottom</u> 2 mg/L or 3.17 mg/L
Suspended Solids (SS), in mg/L (Depth-averaged)	20.95 mg/L or 120% of upstream control station's SS at the same tide of the same day	41.82 mg/L or 130% of the upstream control station's SS at the same tide on the same day
Turbidity in NTU (Depth-averaged)	15.29 NTU or 120% of the upstream control station's turbidity at the same tide on the same day	22.57 NTU or 130% of the upstream control station's turbidity at the same tide on the same day

Remarks:

1. "Depth-averaged" is calculated by taking the arithmetic means of reading of all three depths.
2. For turbidity and SS, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.
3. For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.
4. All the figures given in the table are used for reference only and EPD may amend the figures whenever it is considered as necessary.

4. CONCLUSION

- 4.1.1 According to the EM&A Manual, baseline marine water monitoring was carried out at 3 designated monitoring stations from 15 July 2024 to 12 August 2024.
- 4.1.2 Monitoring parameters including Dissolved Oxygen, Turbidity and Suspended Solids, and other relevant data (such as water depth, monitoring time, water temperature, salinity, pH, Dissolved Oxygen Saturation (%), tidal stages, weather and sea conditions) were recorded during the baseline monitoring.
- 4.1.3 The results of Dissolved Oxygen, Turbidity and Suspended Solids were in the range of 3.63-9.12 mg/L (surface and middle depth) and 3.15-9.15 mg/L (bottom depth), 1.58-28.54 NTU and 2-47 mg/L respectively.
- 4.1.4 The measured results of the monitoring parameters are considered representative of the pre-construction ambient conditions prior to the commencement of the works.
- 4.1.5 It is recommended that the Action and Limit Levels established from the baseline monitoring results should be used as performance criteria in the EM&A of the Project.

FIGURE

Figure 1 Location Plan of the Works Area

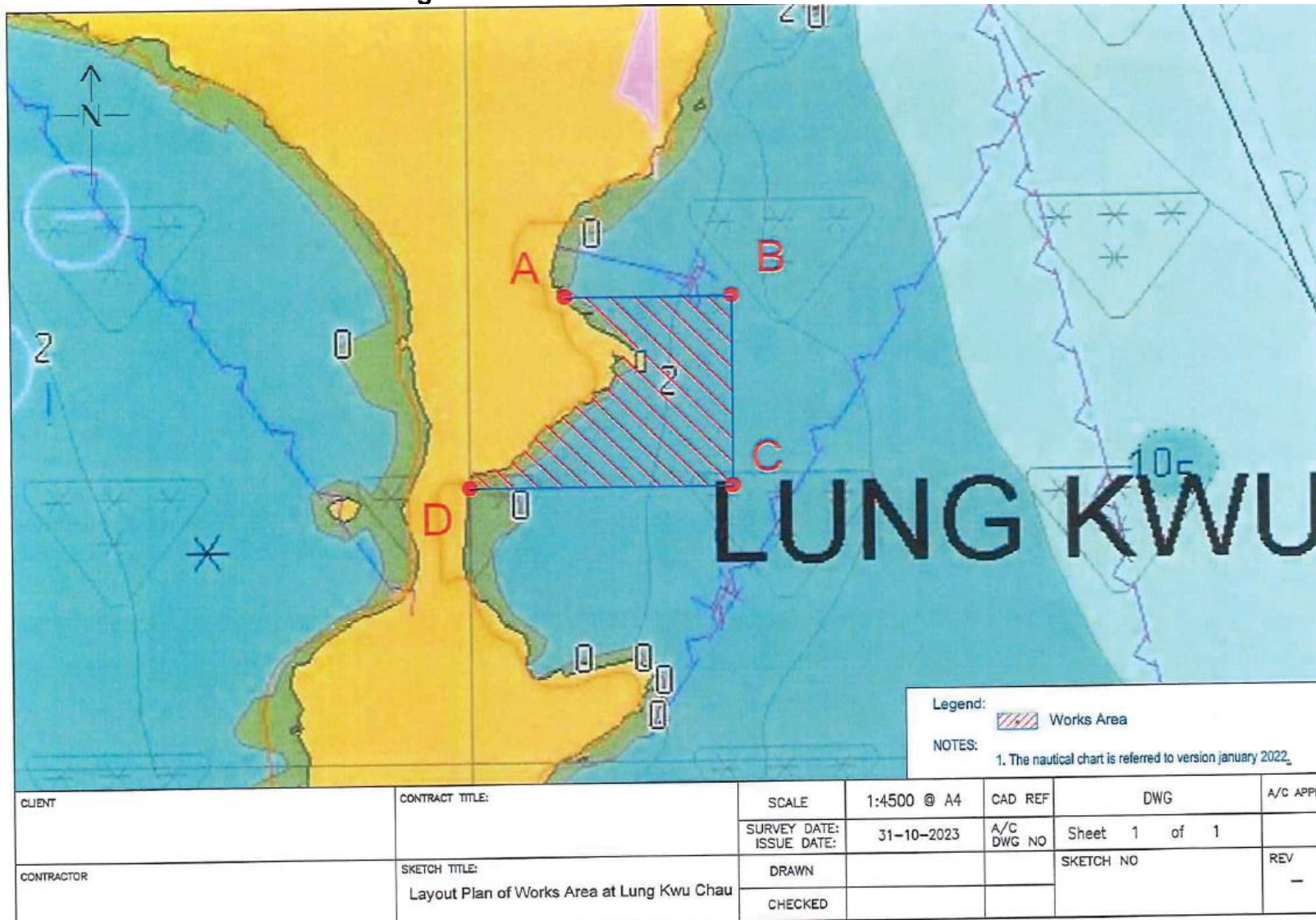
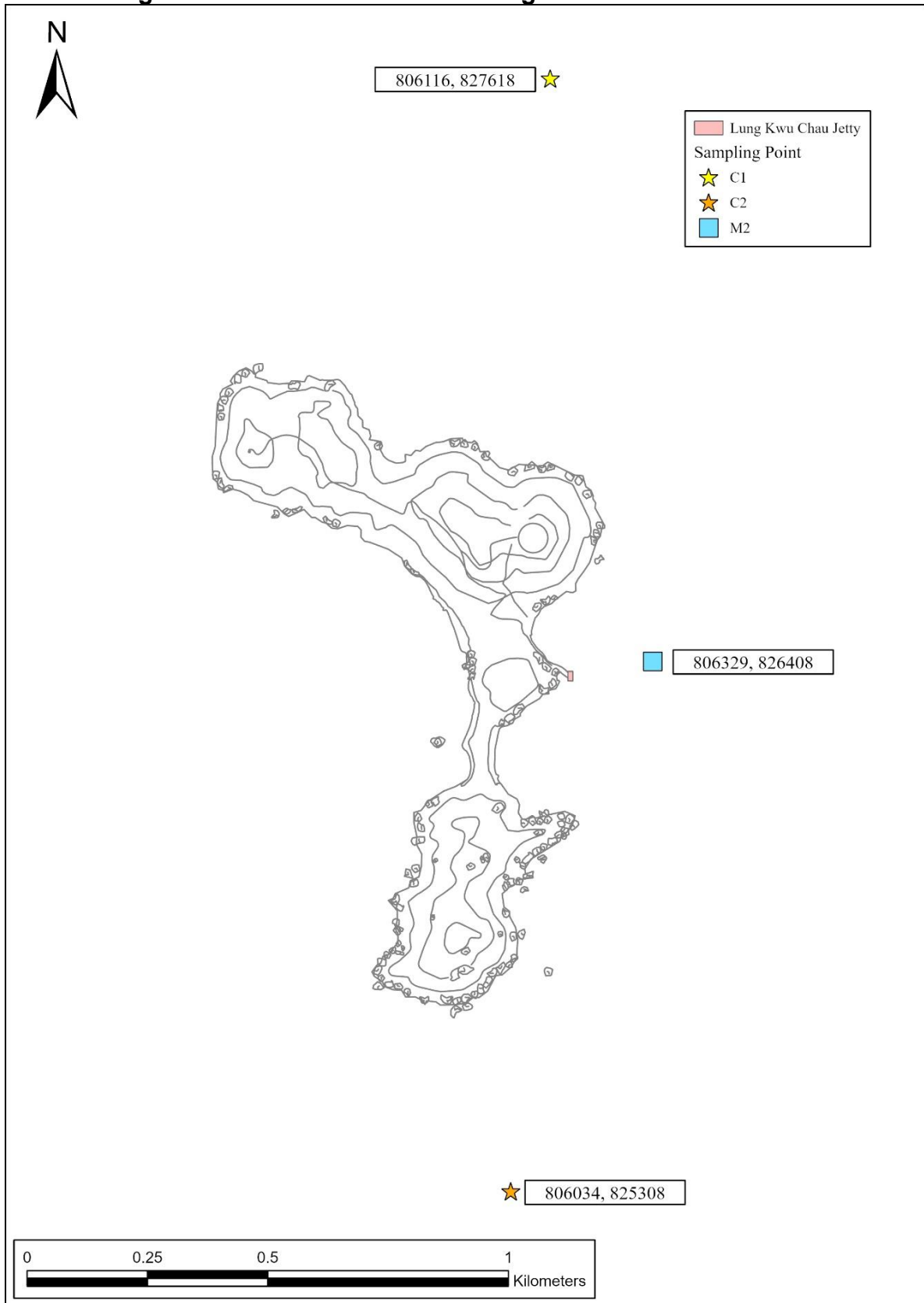


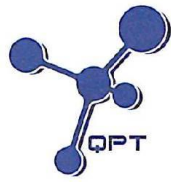
Figure 2 Location of Monitoring Sites and Control Sites



APPENDICES

Appendix A

Calibration Certificates for Baseline Water Quality Monitoring Equipment



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

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

REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No. : R-BD070014
Date of Issue : 12 July 2024
Page No. : 1 of 2

PART A - CUSTOMER INFORMATION

Ecosystems Limited
Unit B13, 12/F., Block B2, Yau Tong Industrial City, 17 Ko Fai Road, Yau Tong, Kowloon, HK

PART B - SAMPLE INFORMATION

Name of Equipment : YSI ProDSS Multi Parameters
Manufacturer : YSI
Serial Number : 24C101291
Date of Received : 09 July 2024
Date of Calibration : 12 July 2024
Date of Next Calibration : 11 October 2024
Request No. : D-BD070014

PART C - REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

Test Parameter	Reference Method
pH value	APHA 21e 4500-H ⁺ B
Temperature	Section 6 of international Accreditation New Zealand Technical Guide no. 3 Second edition March 2008: Working Thermometer Calibration Procedure
Salinity	APHA 21e 2520 B
Dissolved oxygen	APHA 23e 4500-O G (Membrane Electrode Method)
Turbidity	APHA 21c 2130 B (Nephelometric Method)

PART D - CALIBRATION RESULT

(1) pH value

Target (pH unit)	Display Reading (pH unit)	Tolerance	Result
4.00	4.14	0.14	Satisfactory
7.42	7.37	-0.05	Satisfactory
10.01	9.97	-0.04	Satisfactory

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

(2) Temperature

Reading of Ref. thermometer (°C)	Display Reading (°C)	Tolerance	Result
17.0	16.9	-0.1	Satisfactory
27.0	26.1	-0.9	Satisfactory
34.0	32.9	-1.1	Satisfactory

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

(3) Salinity

Expected Reading (g/L)	Display Reading (g/L)	Tolerance (%)	Result
10	9.95	-0.50	Satisfactory
20	20.44	2.20	Satisfactory
30	31.13	3.77	Satisfactory

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

--- CONTINUED ON NEXT PAGE ---

AUTHORIZED
SIGNATORY:


LEE Chun-ning
Assistant Manager



專業化驗有限公司

QUALITY PRO TEST-CONSULT LIMITED

Unit 10, 5/F, Wah Wai Centre, 38-40 Au Pui Wan St., Fotan, Hong Kong

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REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No. : R-BD070014

Date of Issue : 12 July 2024

Page No. : 2 of 2

(4) Dissolved oxygen

Expected Reading (mg/L)	Display Reading (mg/L)	Tolerance	Result
8.50	8.09	-0.41	Satisfactory
7.18	6.85	-0.33	Satisfactory
4.39	4.44	0.05	Satisfactory
0.56	0.60	0.04	Satisfactory

Tolerance of Dissolved oxygen should be less than ± 0.5 (mg/L)

(5) Turbidity

Expected Reading (NTU)	Display Reading (NTU)	Tolerance (%)	Result
0	0.17	--	--
10	9.88	-1.2	Satisfactory
20	19.64	-1.8	Satisfactory
100	98.57	-1.4	Satisfactory
800	745.42	-6.8	Satisfactory

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

Remark(s)

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

--- END OF REPORT ---

Appendix B

Baseline Water Quality Monitoring Results

Date (dd-mm-yyyy)	Tide	Station	Weather	Sea	Sampling Time		Ambient Temperature	Total Water Depth (m)	Level	Sampling Depth (m)	pH		Water Temperature (°C)		Salinity (ppt)		Turbidity (NTU)			DO mg/L			DO Saturation (%)		Suspended Solids (mg/L)			
			Condition	Condition	Start	Finish					Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	Value	Average	Value	Average
15/7/2024	Mid-Ebb	M2	Sunny	Moderate	9:11	9:12	29	4.7	Surface	1	8.02	8.02	29.4	29.4	12.73	12.72	2.32	2.325	2.5	7.15	7.15	7.15	100.4	100.35	3	3	4.25	
			Sunny	Moderate	9:11	9:12			Surface		8.02		29.4		12.71		2.33			7.15			100.3		3			
			Sunny	Moderate	9:10	9:11			Bottom	7.7	29.3	12.41	2.38	7.37	96.5	6												
			Sunny	Moderate	9:10	9:11			Bottom	3.7	7.71	7.705	29.4	29.35	12.64	12.525	2.97	2.675		7.39	7.38	7.38	96.8	96.65	5	5.5		
	Mid-Ebb	C1	Sunny	Moderate	9:37	9:38	29	7.5	Surface	1	8.07	8.07	29.6	29.6	13.01	13	2.83	2.815	2.98	6.66	6.68	5.91	93.8	94.2	4	4	4.33	
			Sunny	Moderate	9:37	9:38			Surface		8.07		29.6		12.99		2.8			6.7			94.6		4			
			Sunny	Moderate	9:36	9:37			Middle	3.7	7.82	7.82	29	29	14.37	14.38	3.1	3.095		5.14	5.14	72.2	72.2	5	4	4.5		
			Sunny	Moderate	9:36	9:37			Middle		7.82		29		14.39		3.09			5.14		72.2		4				
			Sunny	Moderate	9:35	9:36			Bottom	6.5	7.74	7.735	28.7	28.7	15.56	15.6	3.05	3.04		4.88	4.885	4.885	68.8	68.9	4	5		4.5
			Sunny	Moderate	9:35	9:36			Bottom		7.73		28.7		15.64		3.03			4.89		4.885	69		68.9			
	Mid-Ebb	C2	Sunny	Moderate	10:16	10:17	29	5.5	Surface	1	8.07	8.07	29.6	29.6	13.21	13.28	2.12	2.12	2.6	7.16	7.195	7.195	101.1	101.6	3	2	2.75	
			Sunny	Moderate	10:16	10:17			Surface		8.07		29.6		13.35		2.12			7.23			102.1		2			
			Sunny	Moderate	10:15	10:16			Bottom	4.5	7.73	7.73	28.3	28.35	19.75	19.67	3.15	3.07		4.53	4.515	4.515	65	64.75	3	3		
			Sunny	Moderate	10:15	10:16			Bottom		7.73		28.4		19.59		2.99			4.5		64.5	3					
	Mid-Flood	M2	Sunny	Moderate	14:21	14:22	32	5.4	Surface	1	8.22	8.22	30.4	30.4	11.28	11.26	3.41	3.435	3.07	9.12	9.12	9.12	129.2	124.7	5	6	5	
			Sunny	Moderate	14:21	14:22			Surface		8.22		30.4		11.24		3.46			9.12			120.2		6			
			Sunny	Moderate	14:20	14:21			Bottom	4.4	8.23	8.225	30	30	13.36	13.37	2.71	2.71		9.13	9.14	9.14	130	130.1	5	4		4.5
			Sunny	Moderate	14:20	14:21			Bottom		8.22		30		13.38		2.71			9.15		130.2	4					
	Mid-Flood	C1	Sunny	Moderate	14:47	14:48	32	9.7	Surface	1	8.09	8.09	30.2	30.2	8.63	8.51	4	4.03	3.38	7.29	7.35	5.795	101.4	102.3	5	4	5.33	
			Sunny	Moderate	14:47	14:48			Surface		8.09		30.2		8.39		4.06			7.41			103.2		4			
			Sunny	Moderate	14:46	14:47			Middle	4.5	7.77	7.77	28.5	28.5	18.18	18.18	3.04	3.04		4.24	4.24	60.5	60.55	5	5			
			Sunny	Moderate	14:46	14:47			Middle		7.77		28.5		18.18		3.04			4.24		60.6		5				
			Sunny	Moderate	14:45	14:46			Bottom	8.7	7.72	7.72	28.1	28.1	20.26	20.245	3.07	3.075		3.84	3.845	3.845	55.2	55.15	6	7		6.5
			Sunny	Moderate	14:45	14:46			Bottom		7.72		28.1		20.23		3.08			3.85		55.1	7					
	Mid-Flood	C2	Sunny	Moderate	14:01	14:02	32	5.3	Surface	1	8.15	8.15	29.9	29.9	14.1	14.11	2.57	2.575	2.54	7.78	7.78	7.78	111	111	4	5	4.5	
			Sunny	Moderate	14:01	14:02			Surface		8.15		29.9		14.12		2.58			7.78			111		5			
			Sunny	Moderate	14:00	14:01			Bottom	4.3	7.84	7.84	28.9	28.85	16.07	16.51	2.51	2.495		5.6	5.43	5.43	79.4	77.05	4	5		4.5
			Sunny	Moderate	14:00	14:01			Bottom		7.84		28.8		16.95		2.48			5.26		74.7	5					

Date (dd-mm-yyyy)	Tide	Station	Weather	Sea	Sampling Time		Ambient Temperature	Total Water Depth (m)	Level	Sampling Depth (m)	pH		Water Temperature (°C)		Salinity (ppt)		Turbidity (NTU)			DO mg/L			DO Saturation (%)		Suspended Solids (mg/L)		
			Condition	Condition	Start	Finish					Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	Value	Average	Value
17/7/2024	Mid-Ebb	M2	Sunny	Moderate	12:09	12:10	32	11	Surface	1	7.95	7.955	29.7	29.7	8.23	8.23	4.06	4.07	4.03	7.2	7.25	7.245	99.2	99.1	4	4	4.5
			Sunny	Moderate	12:11	12:12			Surface		7.96		29.7		8.23		4.08			7.3			99		4		
			Sunny	Moderate	12:07	12:07			Middle	7.95	7.97	29.8	29.7	8.05	8.055	4	4	7.25		99.6	99.5		6	5			
			Sunny	Moderate	12:08	12:08			Middle	7.99	29.6	8.06	4	7.23	99.4	4											
			Sunny	Moderate	12:04	12:04			Bottom	7.9	7.925	29	29.05	7.99	7.99	4.04	4.02	7.27		100.1	100.05		97^	94^			
			Sunny	Moderate	12:05	12:06			Bottom	7.95	29.1	7.99	4	7.2	100	91^											
	Mid-Ebb	C1	Sunny	Moderate	12:51	12:52	32	6.5	Surface	1	7.92	7.91	29.8	29.75	7.33	7.265	4.13	4.115	4.08	7.29	7.295	7.323	99.9	99.45	3	3.5	4.67
			Sunny	Moderate	12:53	12:55			Surface		7.9		29.7		7.2		4.1			7.3			99		4		
			Sunny	Moderate	12:48	12:49			Middle	7.94	7.92	29.6	29.6	6.88	6.875	4.02	4.02	7.4		101.4	101.2		2	3			
			Sunny	Moderate	12:50	12:50			Middle	7.9	29.6	6.87	4.02	7.3	101	4											
			Sunny	Moderate	12:45	12:46			Bottom	7.94	7.92	29	29.1	7.12	7.115	4.11	4.11	7.37		101.1	101.1		11	7.5			
			Sunny	Moderate	12:46	12:48			Bottom	7.9	29.2	7.11	4.11	7.32	101.1	4											
	Mid-Ebb	C2	Sunny	Moderate	11:38	11:38	32	5	Surface	1	7.99	7.99	29.7	29.7	11.46	11.445	3.01	3.02	2.95	7.38	7.38	7.38	103.4	103.4	4	3.5	3.75
			Sunny	Moderate	11:39	11:39			Surface		7.99		29.7		11.43		3.03			7.38			103.4		3		
			Sunny	Moderate	11:35	11:35			Bottom	8	8	29.5	29.45	11.4	11.395	2.89	2.885	7.4		103.8	103.8		4	4			
			Sunny	Moderate	11:36	11:37			Bottom	8	29.4	11.39	2.88	7.4	103.8	4											
	Mid-Flood	M2	Rainy	Moderate	18:31	18:32	27	11.9	Surface	1	8.1	8.1	30.1	30.1	8.76	8.72	4.67	4.68	4.35	7.95	7.99	7.523	111.3	111.45	4	3.5	4
			Rainy	Moderate	18:33	18:33			Surface		8.1		30.1		8.68		4.69			8.03			111.6		3		
			Rainy	Moderate	18:29	18:29			Middle	7.87	7.895	29.8	29.55	13.84	13.54	4.5	4.41	7.06		100.5	99.85		4	4.5			
			Rainy	Moderate	18:30	18:30			Middle	7.92	29.3	13.24	4.32	7.05	99.2	5											
			Rainy	Moderate	18:26	18:26			Bottom	7.81	7.81	29	28.95	14.6	14.62	3.95	3.96	6.01		84.7	82.95		317^	235.5^			
			Rainy	Moderate	18:27	18:28			Bottom	7.81	28.9	14.64	3.97	5.77	81.2	154^											
	Mid-Flood	C1	Rainy	Moderate	18:01	18:02	27	6.9	Surface	1	8.18	8.175	30.4	30.4	8.38	8.385	4.05	4.01	3.48	8.39	8.405	8.403	116.9	117.15	5	5	5.17
			Rainy	Moderate	18:02	18:03			Surface		8.17		30.4		8.39		3.97			8.42			117.4		5		
Rainy			Moderate	17:58	17:59	Middle			8.17	8.16	30.4	30.2	8.41	9.28	3.94	3.7	8.45	117.8		117.35	4		4				
Rainy			Moderate	18:00	18:00	Middle			8.15	30	10.15	3.46	8.35	116.9	4												
Rainy			Moderate	17:56	17:56	Bottom			8.04	8.045	29.6	29.6	12.54	12.465	2.73	2.72	7.78	109.6		109.55	5		6.5				
Rainy			Moderate	17:57	17:58	Bottom			8.05	29.6	12.39	2.71	7.78	109.5	8												
Mid-Flood	C2	Rainy	Moderate	17:28	17:28	27	4.7	Surface	1	8.02	8.02	29.6	29.6	12.37	12.37	2.89	2.925	3.09	7.48	7.48	7.48	105.2	105.2	3	3	5	
		Rainy	Moderate	17:29	17:30			Surface		8.02		29.6		12.37		2.96			7.48			105.2		3			
		Rainy	Moderate	17:25	17:26			Bottom	7.93	7.935	29.3	29.35	13.07	13.025	3.3	3.25	6.83		96	95.85		6	7				
		Rainy	Moderate	17:26	17:26			Bottom	7.94	29.4	12.98	3.2	6.81	95.7	8												

Date (dd-mm-yyyy)	Tide	Station	Weather	Sea	Sampling Time		Ambient Temperature	Total Water Depth (m)	Level	Sampling Depth (m)	pH		Water Temperature (°C)		Salinity (ppt)		Turbidity (NTU)			DO mg/L			DO Saturation (%)		Suspended Solids (mg/L)		
			Condition	Condition	Start	Finish					Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	Value	Average	Value
19/7/2024	Mid-Ebb	M2	Sunny	Moderate	13:15	13:15	29	4.7	Surface	1	7.88	7.88	28.3	28.3	17.74	17.7	2.82	2.795	2.76	5.37	5.365	5.365	76.1	76	6	6.5	5.25
			Sunny	Moderate	13:15	13:16			Surface		7.88		28.3		17.66		2.77			5.36			75.9		7		
			Sunny	Moderate	13:13	13:14			Bottom	7.82	7.83	28.2	28.25	18.8	18.71	2.77	2.73	5.06		5.05	5.05	72.1	71.9	4	4		
			Sunny	Moderate	13:13	13:14			Bottom	7.84		28.3		18.62		2.69		5.04				71.7		4			
	Mid-Ebb	C1	Sunny	Moderate	13:33	13:34	29	8.5	Surface	1	7.81	7.795	29.3	29.25	9.76	10.075	3.3	3.295	2.67	5.89	5.835	5.005	81.2	80.6	3	3.5	5.17
			Sunny	Moderate	13:34	13:34			Surface		7.78		29.2		10.39		3.29			5.78			80		4		
			Sunny	Moderate	13:32	13:33			Middle	7.69	7.69	28.5	28.45	16.52	16.575	2.53	2.49	4.23		4.175	4.175	59.9	59	4	4.5		
			Sunny	Moderate	13:33	13:33			Middle	7.69		28.4		16.63		2.45		4.12				58.1		5			
			Sunny	Moderate	13:31	13:32			Bottom	7.79	7.775	28.4	28.35	17.09	17.24	1.97	2.22	4.17		4.15	4.15	58.9	58.7	8	7.5		
			Sunny	Moderate	13:32	13:32			Bottom	7.76		28.3		17.39		2.47		4.13				58.5		7			
	Mid-Ebb	C2	Sunny	Moderate	13:54	13:54	29	4.7	Surface	1	7.87	7.87	28.6	28.55	16.6	16.675	2.31	2.46	2.6	5.39	5.37	5.37	76.3	76	4	3.5	3.75
			Sunny	Moderate	13:54	13:54			Surface		7.87		28.5		16.75		2.61			5.35			75.7		3		
			Sunny	Moderate	13:52	13:52			Bottom	7.94	7.92	28.5	28.5	17.86	17.68	3.9	2.74	5.99		5.845	5.845	85.2	83.05	4	4		
			Sunny	Moderate	13:53	13:53			Bottom	7.9		28.5		17.5		1.58		5.7				80.9		4			
	Mid-Flood	M2	Sunny	Moderate	18:34	18:35	30	4.5	Surface	1	7.81	7.82	29	29	13.76	13.78	3.94	3.875	4.29	5.26	5.33	5.33	73.7	74.7	5	5.5	6.75
			Sunny	Moderate	18:36	18:36			Surface		7.83		29		13.8		3.81			5.4			75.7		6		
			Sunny	Moderate	18:33	18:34			Bottom	7.81	7.8	28.4	28.4	17.07	17.08	7.65	4.7	4.45		4.44	4.44	63	62.8	8	8		
			Sunny	Moderate	18:34	18:34			Bottom	7.79		28.4		17.09		1.75		4.43				62.6		8			
	Mid-Flood	C1	Sunny	Moderate	18:19	18:19	30	7.4	Surface	1	7.77	7.775	29.1	29.05	12.5	12.69	6.17	4.975	3.33	5.22	5.2	4.868	72.7	72.5	5	4.5	3.67
			Sunny	Moderate	18:19	18:20			Surface		7.78		29		12.88		3.78			5.18			72.3		4		
			Sunny	Moderate	18:18	18:18			Middle	7.75	7.745	28.7	28.65	15.41	15.575	3.07	3.035	4.57		4.535	4.535	64.4	63.9	4	3.5		
			Sunny	Moderate	18:19	18:19			Middle	7.74		28.6		15.74		3		4.5				63.4		3			
			Sunny	Moderate	18:17	18:17			Bottom	7.7	7.705	28.1	28.1	18.69	18.65	1.88	1.985	4.09		4.005	4.005	58.1	56.85	3	3		
			Sunny	Moderate	18:17	18:18			Bottom	7.71		28.1		18.61		2.09		3.92				55.6		3			
	Mid-Flood	C2	Sunny	Moderate	18:48	18:48	30	5	Surface	1	7.78	7.785	28.5	28.5	16.35	16.455	2.46	2.425	2.42	4.68	4.675	4.675	66	66	3	3	4.25
			Sunny	Moderate	18:48	18:48			Surface		7.79		28.5		16.56		2.39			4.67			66		3		
			Sunny	Moderate	18:47	18:47			Bottom	7.81	7.8	28.2	28.2	18.03	18.06	2.4	2.41	4.3		4.285	4.285	60.9	60.7	6	5.5		
			Sunny	Moderate	18:47	18:47			Bottom	7.79		28.2		18.09		2.42		4.27				60.5		5			

Date (dd-mm-yyyy)	Tide	Station	Weather	Sea	Sampling Time		Ambient Temperature	Total Water Depth (m)	Level	Sampling Depth (m)	pH		Water Temperature (°C)		Salinity (ppt)		Turbidity (NTU)			DO mg/L			DO Saturation (%)		Suspended Solids (mg/L)		
			Condition	Condition	Start	Finish					Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	Value	Average	Value
22/7/2024	mid-ebb	M2	Sunny	Moderate	15:14	15:15	33	4.1	surface	1	7.81	7.81	29.6	29.6	19.35	19.335	8.02	8.04	9.84	5.3	5.3	5.3	77.5	77.5	9	10.5	9.5
			Sunny	Moderate	15:14	15:15			surface		7.81		29.6		19.32		8.06			5.3			77.5		12		
			Sunny	Moderate	15:13	15:14			bottom	7.8	29.6	20.12	11.5	5.5	80.8	8	8.5										
			Sunny	Moderate	15:13	15:14			bottom	7.8	29.6	20.17	11.8			80.5		9									
	mid-ebb	C1	Sunny	Moderate	15:30	15:31	33	8.8	surface	1	7.78	7.78	29	29	19.98	19.975	8.52	7.01	16.1	4.14	4.135	3.885	60	60.05	15	16.5	11.5
			Sunny	Moderate	15:30	15:31			surface		7.78		29		19.97		5.5			60.1			18				
			Sunny	Moderate	15:29	15:30			middle	7.8	28.2	23.25	14.1	3.635	53.1	9	10										
			Sunny	Moderate	15:29	15:30			middle	7.8	28.2	23.22	13.5			53.1		11									
			Sunny	Moderate	15:28	15:29			bottom	7.82	28.2	23.91	28.5	3.885	57.2	8	8										
			Sunny	Moderate	15:28	15:29			bottom	7.82	28.2	23.93	26.7			56.5		8									
	mid-ebb	C2	Sunny	Moderate	15:51	15:52	33	4.7	surface	1	7.83	7.83	29.6	29.55	19.47	19.48	5.49	5.535	6.14	5.26	5.255	5.255	76.7	76.75	6	6	6
			Sunny	Moderate	15:51	15:52			surface		7.83		29.5		19.49		5.58			76.8			6				
			Sunny	Moderate	15:50	15:51			bottom	7.82	29	21.83	6.68	5.24	77.1	6	6										
			Sunny	Moderate	15:50	15:51			bottom	7.82	29	21.89	6.82			76.3		6									
	mid-flood	M2	Sunny	Moderate	20:39	20:40	30	5.5	surface	1	7.77	7.77	29.3	29.3	16.95	16.95	4.37	4.38	13.7	5.04	5.045	5.045	72.4	72.4	20	21	12
			Sunny	Moderate	20:39	20:40			surface		7.77		29.3		16.95		4.39			72.4			22				
			Sunny	Moderate	20:38	20:39			bottom	7.82	29	18.91	23	4.87	70.4	3	3										
			Sunny	Moderate	20:38	20:39			bottom	7.82	29	18.91	22.8			70.2		3									
	mid-flood	C1	Sunny	Moderate	20:54	20:55	30	7.8	surface	1	7.76	7.76	29.2	29.2	16.78	16.795	4.4	4.355	4.76	4.83	4.83	4.613	69.1	69.05	4	4.5	4.33
			Sunny	Moderate	20:54	20:55			surface		7.76		29.2		16.81		4.31			69			5				
			Sunny	Moderate	20:53	20:54			middle	7.76	28.9	19.22	4.89	4.395	63.3	4	4.5										
			Sunny	Moderate	20:53	20:54			middle	7.76	28.9	19.12	4.91			63.5		5									
			Sunny	Moderate	20:52	20:53			bottom	7.8	28.7	20.03	5.01	4.58	66.4	4	4										
			Sunny	Moderate	20:52	20:53			bottom	7.8	28.7	20.03	5.01			65.9		4									
	mid-flood	C2	Sunny	Moderate	21:18	21:19	30	4.9	surface	1	7.76	7.76	29	29	18.51	18.51	4.38	4.365	4.71	4.64	4.635	4.635	66.7	66.65	3	3	3.5
			Sunny	Moderate	21:18	21:19			surface		7.76		29		18.51		4.35			66.6			3				
			Sunny	Moderate	21:17	21:18			bottom	7.76	28.7	20.49	5.07	4.58	66.6	4	4										
			Sunny	Moderate	21:17	21:18			bottom	7.76	28.7	20.48	5.02			66.1		4									

Date (dd-mm-yyyy)	Tide	Station	Weather	Sea	Sampling Time		Ambient Temperature	Total Water Depth (m)	Level	Sampling Depth (m)	pH		Water Temperature (°C)		Salinity (ppt)		Turbidity (NTU)			DO mg/L			DO Saturation (%)		Suspended Solids (mg/L)			
			Condition	Condition	Start	Finish					Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	Value	Average	Value	Average
24/7/2024	mid-ebb	M2	Sunny	Moderate	15:00	15:01	32	9.1	surface	1	7.86	7.845	29.5	29.5	21.75	21.76	6.45	6.445	8.59	5.32	5.275	5.473	78.7	78.05	4	3.5	11	
			Sunny	Moderate	15:02	15:03			surface		7.83		29.5		21.77		6.44			5.23			77.4		3			
			Sunny	Moderate	15:04	15:04			middle	7.82	7.82	29.3	29.25	22.9	23	7.6	7.85	5.66		73	11		9					
			Sunny	Moderate	15:05	15:05			middle	7.82		29.2		23.1		8.1		5.68		72.6	7							
			Sunny	Moderate	15:06	15:06			bottom	7.81	7.81	29.1	29.1	23.06	23.07	11.2	11.47	4.66		4.62	4.62		68.9	68.35	21	20.5		
			Sunny	Moderate	15:07	15:08			bottom	7.81		29.1		23.08		11.8		4.58					67.8		20			
	mid-ebb	C1	Sunny	Moderate	15:23	15:23	32	11.6	surface	1	7.93	7.93	30.6	30.6	16.91	16.9	1.85	1.845	2.7	7.16	7.165	6.443	105.1	105.1	11	10.5	9.67	
			Sunny	Moderate	15:24	15:24			surface		7.93		30.6		16.89		1.84			7.17			105.1		10			
			Sunny	Moderate	15:25	15:26			middle	7.86	7.86	29.4	29.4	21.28	21.275	2.84	2.84	5.75		84.7	10		9.5					
			Sunny	Moderate	15:27	15:27			middle	7.86		29.4		21.27		2.84		5.69		83.7	9							
			Sunny	Moderate	15:28	15:29			bottom	7.82	7.82	29.2	29.2	22.09	22.095	3.42	3.415	5.05		74.4	9		9					
			Sunny	Moderate	15:30	15:30			bottom	7.82		29.2		22.1		3.41		4.9		72.1	9							
	mid-ebb	C2	Sunny	Moderate	15:45	15:46	32	6.9	surface	1	7.86	7.865	29.7	29.7	21.38	21.43	4.05	4.13	4.95	5.51	5.5	5.345	81.6	81.5	4	4	5.17	
			Sunny	Moderate	15:47	15:48			surface		7.87		29.7		21.48		4.21			5.49			81.4		4			
			Sunny	Moderate	15:49	15:49			middle	7.86	7.86	29.5	29.5	22	22.1	5	5.05	5.2		76.4	5		4.5					
			Sunny	Moderate	15:50	15:50			middle	7.86		29.5		22.2		5.1		5.18		76.3	4							
			Sunny	Moderate	15:51	15:51			bottom	7.85	7.85	29.2	29.15	23.25	23.265	5.69	5.655	4.8		4.765	4.765		71.1	70.6	7	7		
			Sunny	Moderate	15:52	15:53			bottom	7.85		29.1		23.28		5.62		4.73		70.1	7							
	mid-flood	M2	Sunny	Moderate	9:00	9:00	30	5.9	surface	1	7.78	7.78	29.6	29.65	18.06	17.97	1.98	1.99	7.96	5.68	5.7	5.7	82.5	82.75	8	7.5	11.3	
			Sunny	Moderate	9:01	9:02			surface		7.78		29.7		17.88		2			5.72			83		7			
			Sunny	Moderate	9:06	9:06			bottom	7.8	7.8	29.1	29.1	22.2	22.205	14	13.925	4.59		4.585	4.585		67.6	67.55	11	15		
			Sunny	Moderate	9:07	9:07			bottom	7.8		29.1		22.21		13.8		4.58					67.5		19			
	mid-flood	C1	Sunny	Moderate	9:20	9:21	30	11.3	surface	1	7.78	7.78	29.3	29.3	20.54	20.535	6.62	6.625	6.28	4.89		4.885	4.678	71.6	71.5	3	3.5	4.33
			Sunny	Moderate	9:21	9:22			surface		7.78		29.3		20.53		6.63			4.88				71.4		4		
			Sunny	Moderate	9:23	9:24			middle	7.78	7.78	29.1	29.1	22.1	22.1	6.76	6.69	4.47		65.8	4	4.5						
			Sunny	Moderate	9:25	9:25			middle	7.78		29.1		22.1		6.62		4.47		65.7	5							
			Sunny	Moderate	9:26	9:26			bottom	7.79	7.79	28.9	28.95	23.2	23.07	5.41	5.535	4.26		4.27	4.27	62.9		63	5	5		
			Sunny	Moderate	9:27	9:28			bottom	7.79		29		22.94		5.66		4.28				63.1			5			
mid-flood	C2	Sunny	Moderate	9:55	9:56	30	5.7	surface	1	7.91	7.89	29.7	29.65	20.1	20.15	2.14	2.115	3.69	5.94	5.88		5.88	87.3	86.35	7	7	7.25	
		Sunny	Moderate	9:57	9:58			surface		7.87		29.6		20.2		2.09			5.82				85.4		7			
		Sunny	Moderate	10:01	10:02			bottom	7.84	7.845	29.2	29.2	22.66	22.66	5	5.27	4.98		4.975	4.975	73.7		73.6	7	7.5			
		Sunny	Moderate	10:03	10:03			bottom	7.85		29.2		22.66		5.54		4.97				73.5			8				

Date (dd-mm-yyyy)	Tide	Station	Weather	Sea	Sampling Time		Ambient Temperature	Total Water Depth (m)	Level	Sampling Depth (m)	pH		Water Temperature (°C)		Salinity (ppt)		Turbidity (NTU)			DO mg/L			DO Saturation (%)		Suspended Solids (mg/L)		
			Condition	Condition	Start	Finish					Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	Value	Average	Value
29/7/2024	mid-ebb	M2	Rainy	Rough	8:31	8:32	28	4.8	surface	1	7.7	7.705	29.1	29.1	14.8	14.57	5.06	5.07	5.16	5.69	5.645	5.645	80.4	79.65	4	4	4.25
			Rainy	Rough	8:32	8:33			surface		7.71		29.1		14.34		5.08			5.6			78.9		4		
			Rainy	Rough	8:30	8:30			bottom	7.70	29.2	11.8	5.27	5.68	79.4	5											
			Rainy	Rough	8:31	8:31			bottom	7.71	29.3	13.16	5.22	5.73	80.4	4											
	mid-ebb	C1	Rainy	Rough	8:57	8:58	28	6.9	surface	1	7.71	7.715	29.7	29.7	7.44	7.42	3.97	3.99	3.89	6.14	6.175	5.87	84.1	84.6	2	2	2.83
			Rainy	Rough	8:58	8:59			surface		7.72		29.7		7.4		4.01			6.21			85.1		2		
			Rainy	Rough	8:55	8:56			middle	7.67	29.3	10.47	3.38	5.57	77.2	3											
			Rainy	Rough	8:56	8:56			middle	7.67	29.3	10.54	3.45	5.56	77.1	3											
			Rainy	Rough	8:53	8:53			bottom	7.64	29.3	12.96	4.27	5.1	71.6	3											
			Rainy	Rough	8:54	8:55			bottom	7.64	29.2	14.25	4.24	5.01	70.6	4											
	mid-ebb	C2	Rainy	Rough	9:24	9:24	28	4.0	surface	1	7.71	7.705	28.8	28.7	16.72	17.06	2.83	2.885	2.96	5.32	5.105	5.105	75.5	72.55	2	2.5	2.25
			Rainy	Rough	9:25	9:25			surface		7.7		28.6		17.4		2.94			4.89			69.6		3		
			Rainy	Rough	9:22	9:23			bottom	7.73	29	14.56	3.08	5.58	78.7	2											
			Rainy	Rough	9:21	9:22			bottom	7.72	29	14.76	2.99	5.56	78.4	2											
	mid-flood	M2	Rainy	Rough	14:04	14:05	28	5.0	surface	1	7.76	7.76	29.3	29.3	10.89	10.87	5.91	5.115	4.34	6.17	6.195	6.195	85.6	85.95	2	2	2.25
			Rainy	Rough	14:05	14:06			surface		7.76		29.3		10.85		4.32			6.22			86.3		2		
			Rainy	Rough	14:01	14:01			bottom	7.68	28.7	18.58	3.39	4.78	68.5	2											
			Rainy	Rough	14:02	14:03			bottom	7.68	28.7	18.51	3.75	4.7	67.4	3											
	mid-flood	C1	Rainy	Rough	14:31	14:32	28	10.2	surface	1	7.71	7.715	29.3	29.35	10.31	10.31	3.08	3.09	3.71	5.33	5.38	4.86	73.8	74.55	2	2	3.5
			Rainy	Rough	14:32	14:32			surface		7.72		29.4		10.31		3.1			5.43			75.3		2		
			Rainy	Rough	14:28	14:29			middle	7.69	28.7	19.22	2.26	4.36	62.7	2											
			Rainy	Rough	14:30	14:30			middle	7.68	28.7	19.35	2.43	4.32	62.2	3											
			Rainy	Rough	14:25	14:26			bottom	7.7	27.4	27.41	5.81	3.39	49.9	6											
			Rainy	Rough	14:27	14:27			bottom	7.71	27.3	27.51	5.55	3.26	48	6											
	mid-flood	C2	Rainy	Rough	14:47	14:47	28	4.9	surface	1	7.73	7.735	29.1	29.1	13.95	13.955	2.79	2.775	4.01	5.49	5.53	5.53	77.1	77.7	2	2	3.25
			Rainy	Rough	14:48	14:49			surface		7.74		29.1		13.96		2.76			5.57			78.3		2		
			Rainy	Rough	14:43	14:44			bottom	7.68	28.3	22.55	5.2	4.48	65.2	4											
			Rainy	Rough	14:45	14:45			bottom	7.68	28.3	22.56	5.27	4.36	63.5	5											

Date (dd-mm-yyyy)	Tide	Station	Weather	Sea	Sampling Time		Ambient Temperature	Total Water Depth (m)	Level	Sampling Depth (m)	pH		Water Temperature (°C)		Salinity (ppt)		Turbidity (NTU)			DO mg/L			DO Saturation (%)			Suspended Solids (mg/L)							
			Condition	Condition	Start	Finish					Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	Value	Average	Value	Average	DA*				
31/7/2024	mid-ebb	M2	Rainy	Calm	11:31	11:32	27	5	surface	1	7.69	7.69	28.7	28.7	11.5	11.665	5.91	5.97	6.45	5.62	5.595	5.595	77.6	77.25	7	6.5	8.5						
			Rainy	Calm	11:33	11:34			surface		7.69		28.7		11.83					6.03			5.57		76.9			6					
			Rainy	Calm	11:35	11:36			bottom	7.67	7.67	27.9	19.76	6.92	3.99	3.95	56.7	56.2		10													
			Rainy	Calm	11:37	11:38			bottom	7.67		27.85	20.12	6.93			6.925			3.91	55.7	11											
	mid-ebb	C1	Rainy	Moderate	11:41	11:42	27	11.5	surface	1	7.88	7.88	29.4	29.4	4.61	4.615	6.58	6.51	4.99	7.03	7.025	5.743	94.4	94.35	5	6	5.33						
			Rainy	Moderate	11:43	11:44			surface		7.88		29.4		4.62					6.44			7.02		94.3			7					
			Rainy	Moderate	17:45	17:46			middle	7.66	7.66	28.4	16.14	3.64	4.45	4.46	62.7	62.75		4													
			Rainy	Moderate	11:47	11:48			middle	7.66		28.45	16	3.5			4.47			62.8	4												
			Rainy	Moderate	11:49	11:50			bottom	7.64	7.64	28.4	16.92	4.59	4.29	4.23	60.5	59.75		6													
			Rainy	Moderate	11:51	11:52			bottom	7.64		28.4	17.07	5.16			4.17			59	6												
	mid-ebb	C2	Sunny	Calm	11:15	11:16	27	4.8	surface	1	7.74	7.74	28.7	28.7	12.46	12.465	2.48	2.485	2.4	6.08	6.08	6.08	84.2	84.2	2	2.5	3.5						
			Sunny	Calm	11:17	11:18			surface		7.74		28.7		12.47					2.49			6.08		84.2			3					
			Sunny	Calm	11:19	11:20			bottom	7.67	7.7	28.3	13.33	2.24	5.27	5.42	73.4	76.1		5													
			Sunny	Calm	11:21	11:22			bottom	7.73		28.45	13.54	2.37			5.57			78.8	4												
	mid-flood	M2	Sunny	Moderate	17:30	17:31	30	7.0	surface	1	7.84	7.83	28.9	28.9	12.04	12.01	3.97	3.86	4.46	6.54	6.47	5.073	90.7	89.7	4	4	6.33						
			Sunny	Moderate	17:32	17:33			surface		7.82		28.9		11.98					3.75			6.4		88.7			4					
			Sunny	Moderate	17:34	17:35			middle	7.66	7.66	27.7	21.15	3.24	3.7	3.675	52.9	52.6		4													
			Sunny	Moderate	17:36	17:37			middle	7.66		27.7	21.5	3.54			3.39			52.3	6												
			Sunny	Moderate	17:38	17:39			bottom	7.68	7.685	27.2	24.56	6.44	3.2	3.175	46.2	45.9		9													
			Sunny	Moderate	17:40	17:41			bottom	7.69		27.2	24.78	5.79			3.15			45.6	11												
	mid-flood	C1	Sunny	Moderate	17:49	17:50	30	11.5	surface	1	7.68	7.69	29.1	29.1	9.12	9.14	4.59	4.64	4.33	5.63	5.655	4.72	77.1	77.5	4	4	4.17						
			Sunny	Moderate	17:51	17:52			surface		7.7		29.1		9.16					4.69			5.68		77.9			4					
			Sunny	Moderate	17:53	17:54			middle	7.67	7.67	27.7	20.75	4.37	3.83	3.785	54.6	54		4													
			Sunny	Moderate	17:55	17:56			middle	7.67		27.75	20.71	4.39			3.74			53.4	4												
			Sunny	Moderate	17:57	17:58			bottom	7.69	7.69	27.6	21.64	4.24	3.55	3.495	50.8	50.05		5													
			Sunny	Moderate	17:59	18:00			bottom	7.69		27.6	22.08	3.71			3.44			49.3	4												
			mid-flood	C2	Sunny	Calm			17:14	17:15	30	4.7	surface	1	7.71	7.72	28.7	28.75		13	12.965	4.91	4.93	4.72	5.28	5.335		5.335	73.4	74.15	4	4	4.25
					Sunny	Calm			17:16	17:17			surface		7.73		28.8			12.93					4.95				5.39		74.9		
Sunny	Calm	17:18			17:19	bottom	7.7	7.7	28.5	14.23			4.67	4.95	4.89	69	68.45	5															
Sunny	Calm	17:20			17:21	bottom	7.7		28.45	16.77			4.35			4.83		67.9	4														

Date (dd-mm-yyyy)	Tide	Station	Weather	Sea	Sampling Time		Ambient Temperature	Total Water Depth (m)	Level	Sampling Depth (m)	pH		Water Temperature (°C)		Salinity (ppt)		Turbidity (NTU)			DO mg/L			DO Saturation (%)		Suspended Solids (mg/L)		
			Condition	Condition	Start	Finish					Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	Value	Average	Value
2/8/2024	mid-ebb	M2	Sunny	Calm	13:13	13:14	31	4.4	surface	1	7.78	7.78	29.4	29.4	13.26	13.26	8.69	8.63	7.31	6.78	6.775	6.775	95.4	95.35	7	7.5	7
			Sunny	Calm	13:13	13:14			surface		7.78		29.4		13.26		8.57			6.77			95.3		8		
			Sunny	Calm	13:12	13:13			bottom	7.77	29.4	14.41	6.02	6.87	97.3	7											
			Sunny	Calm	13:12	13:13			bottom	7.77	29.4	14.41	5.96	6.86	97.3	6											
	mid-ebb	C1	Sunny	Calm	13:39	13:40	31	8.8	surface	1	7.77	7.77	29	29	12.1	12.115	3.05	3.06	5.82	6.36	6.36	6.295	88.4	88.4	4	4.5	4.67
			Sunny	Calm	13:39	13:40			surface		7.77		29		12.13		3.07			6.36			88.4		5		
			Sunny	Calm	13:38	13:39			middle	7.76	28.8	13.42	4.99	6.23	87	5											
			Sunny	Calm	13:38	13:39			middle	7.76	28.8	13.43	5.05	6.23	87	6											
			Sunny	Calm	13:37	13:38			bottom	7.79	28.8	13.91	9.34	6.21	86.8	4											
			Sunny	Calm	13:37	13:38			bottom	7.79	28.8	13.91	9.4	6.2	86.8	4											
	mid-ebb	C2	Sunny	Calm	13:59	14:00	31	4.2	surface	1	7.92	7.92	29.9	29.9	12.02	12.02	4.64	4.67	3.48	7.2	7.205	7.205	101.6	101.65	4	4.5	4.75
			Sunny	Calm	13:59	14:00			surface		7.92		29.9		12.02		4.7			7.21			101.7		5		
			Sunny	Calm	13:58	13:59			bottom	7.86	7.855	29.1	29.1	15.68	92.9	5											
			Sunny	Calm	13:58	13:59			bottom	7.85	7.855	29.1	29.1	15.68	92.8	5											
	mid-flood	M2	Sunny	Calm	19:03	19:04	30	5.0	surface	1	7.98	7.98	29.8	29.8	10.66	10.665	4.56	4.555	5.6	6.8	6.8	6.8	95.1	95.05	5	5	6
			Sunny	Calm	19:03	19:04			surface		7.98		29.8		10.67		4.55			6.8			95		5		
			Sunny	Calm	19:02	19:03			bottom	8.05	8.055	29.9	29.9	11.89	98.9	7											
			Sunny	Calm	19:02	19:03			bottom	8.06	8.055	29.9	29.9	11.92	99	7											
	mid-flood	C1	Sunny	Calm	19:26	19:27	30	8.7	surface	1	7.77	7.77	29.6	29.6	9.5	9.5	6.07	6.075	5.56	6.08	6.08	5.873	84.1	84.1	6	5.5	5.5
			Sunny	Calm	19:26	19:27			surface		7.77		29.6		9.5		6.08			6.08			84.1		5		
			Sunny	Calm	19:25	19:26			middle	7.73	7.735	29.3	29.3	11.84	78.7	5											
			Sunny	Calm	19:25	19:26			middle	7.74	7.735	29.3	29.3	11.87	78.9	5											
			Sunny	Calm	19:25	19:26			bottom	7.7	7.7	28.4	28.4	16.13	67	6											
			Sunny	Calm	19:25	19:26			bottom	7.7	7.7	28.4	28.4	16.13	67.1	6											
	mid-flood	C2	Sunny	Calm	19:57	19:58	30	4.6	surface	1	7.88	7.88	29.6	29.6	11.1	11.1	4.27	4.26	4.2	6.59	6.595	6.595	92.1	92.15	3	3.5	4
			Sunny	Calm	19:57	19:58			surface		7.88		29.6		11.1		4.25			6.6			92.2		4		
			Sunny	Calm	19:56	19:57			bottom	7.85	7.855	28.9	28.9	12.04	84.8	4											
			Sunny	Calm	19:56	19:57			bottom	7.86	7.855	28.9	28.9	12.23	85.1	5											

Date (dd-mm-yyyy)	Tide	Station	Weather	Sea	Sampling Time		Ambient Temperature	Total Water Depth (m)	Level	Sampling Depth (m)	pH		Water Temperature (°C)		Salinity (ppt)		Turbidity (NTU)			DO mg/L			DO Saturation (%)		Suspended Solids (mg/L)		
			Condition	Condition	Start	Finish					Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	Value	Average	Value
5/8/2024	mid-ebb	M2	Sunny	Calm	15:06	15:07	35	5.8	surface	1	7.94	7.94	29.8	29.85	14.26	14.11	13.5	14.47	16.1	7.22	7.16	7.16	101.9	101.6	16	16	20
			Sunny	Calm	15:06	15:07			surface		7.94		29.9		13.96		15.5			7.1			101.3		16		
			Sunny	Calm	15:05	15:06			bottom	4.8	7.82	27.8	21.96	17.9	5.77	83.1	24										
			Sunny	Calm	15:05	15:06			bottom	7.82	27.8	22.18	22.07	17.7	5.8	83.5	24										
	mid-ebb	C1	Sunny	Calm	15:18	15:19	35	6.9	surface	1	7.88	7.88	29.8	29.8	11.42	11.57	3.26	3.315	4.12	6.89	6.985	7.4	96.8	98.2	5	5	7
			Sunny	Calm	15:18	15:19			surface		7.88		29.8		11.72		3.37			7.08			99.6		5		
			Sunny	Calm	15:17	15:18			middle	3.5	8	29.3	16.36	3.61	7.56	108	8										
			Sunny	Calm	15:17	15:18			middle	8.01	8.005	29.6	16.15	3.31	8.07	115.9	9										
			Sunny	Calm	15:16	15:17			bottom	5.9	7.9	28.8	17.24	5.6	6.37	90.9	8										
			Sunny	Calm	15:16	15:17			bottom	7.97	7.935	28.8	17.25	5.55	6.35	90.6	7										
	mid-ebb	C2	Sunny	Calm	15:39	15:40	35	4.4	surface	1	8.15	8.14	30.6	30.55	14.9	14.965	5.84	6.1	6.72	9.01	9.01	9.01	130.6	130.5	16	15.5	17.3
			Sunny	Calm	15:39	15:40			surface		8.13		30.5		15.03		6.36			9.01			130.4		15		
			Sunny	Calm	15:38	15:39			bottom	3.4	8.14	30.3	15.4	7.33	8.43	122	19										
			Sunny	Calm	15:38	15:39			bottom	8.19	8.165	30.3	15.4	7.33	8.34	120.6	19										
	mid-flood	M2	Sunny	Calm	21:04	21:05	32	6.8	surface	1	7.83	7.83	29.7	29.7	13.27	13.225	4.57	4.645	8.56	5.83	5.895	6.023	82.5	83.35	5	5	18.2
			Sunny	Calm	21:04	21:05			surface		7.83		29.7		13.18		4.72			5.96			84.2		5		
			Sunny	Calm	21:03	21:04			middle	3.4	7.88	29.6	14.44	5.73	6.17	87.7	5										
			Sunny	Calm	21:03	21:04			middle	7.88	7.88	29.6	14.39	5.85	6.13	87.2	5										
			Sunny	Calm	21:02	21:03			bottom	5.8	7.98	28.9	16.83	14.7	4.72	68.4	42										
			Sunny	Calm	21:02	21:03			bottom	7.98	7.98	28.9	16.81	15.8	4.74	68.6	47										
	mid-flood	C1	Sunny	Calm	21:22	21:23	32	9.6	surface	1	7.82	7.825	29.6	29.6	13.06	12.835	4.71	4.68	5.33	5.62	5.67	5.443	79.3	79.9	5	5	6.33
			Sunny	Calm	21:22	21:23			surface		7.83		29.6		12.61		4.65			5.72			80.5		5		
			Sunny	Calm	21:21	21:22			middle	4.8	7.84	28.5	16.9	5.61	4.88	70.7	8										
			Sunny	Calm	21:21	21:22			middle	7.86	7.85	29.5	16.56	4.86	5.55	79.6	7										
			Sunny	Calm	21:20	21:21			bottom	8.6	7.81	27.8	21.08	5.62	4.46	63.8	7										
			Sunny	Calm	21:20	21:21			bottom	7.96	7.885	27.6	21.55	6.54	4.42	63.2	6										
	mid-flood	C2	Sunny	Calm	21:42	21:43	32	5.3	surface	1	7.87	7.875	29.8	29.6	12.72	12.75	4.4	4.475	4.66	6.29	6.23	6.23	86.8	86.8	5	5.5	7.5
			Sunny	Calm	21:42	21:43			surface		7.88		29.4		12.78		4.55			6.17			86.8		6		
Sunny			Calm	21:41	21:42	bottom			4.3	7.9	29.1	16.28	4.74	6.03	86	10											
Sunny			Calm	21:41	21:42	bottom			8.05	7.975	29.1	16.32	4.94	6.05	86.3	9											

Date (dd-mm-yyyy)	Tide	Station	Weather	Sea	Sampling Time		Ambient Temperature	Total Water Depth (m)	Level	Sampling Depth (m)	pH		Water Temperature (°C)		Salinity (ppt)		Turbidity (NTU)			DO mg/L			DO Saturation (%)		Suspended Solids (mg/L)		
			Condition	Condition	Start	Finish					Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	Value
7/8/2024	mid-ebb	M2	Sunny	Calm	14:06	14:07	33	5.4	surface	1	8	8	28.6	28.6	20.66	20.665	4.22	6.12	4.215	5.85	5.855	5.855	84.7	84.75	5	5.5	7
			Sunny	Calm	14:06	14:07			surface		8		28.6		20.67		4.21			5.86			84.8		6		
			Sunny	Calm	14:05	14:06			bottom	4.4	7.94	7.94	27.7	27.7	23.1	23.1	7.95	8.02	5.18	5.175	5.175	74.9	74.85	9	8.5		
			Sunny	Calm	14:05	14:06			bottom		7.94		27.7		23.1		8.09		5.17			74.8		8			
	mid-ebb	C1	Sunny	Calm	14:17	14:18	33	11	surface	1	7.97	7.97	30.2	30.2	16.13	16.095	2.3	4.32	2.3	6.49	6.49	5.825	94.1	94.05	2	2	6.17
			Sunny	Calm	14:17	14:18			surface		7.97		30.2		16.06		2.3			6.49			94		2		
			Sunny	Calm	14:16	14:17			middle	5.5	7.9	7.9	27.9	27.9	22.77	22.775	4.98		4.97	5.16	5.16	5.16	74.7	74.7	6	6.5	
			Sunny	Calm	14:16	14:17			middle		7.9		27.9		22.78		4.96			5.16			74.7		7		
			Sunny	Calm	14:15	14:16			bottom	10	7.86	7.86	27.3	27.3	24.55	24.545	5.73		5.7	4.68	4.675	4.675	67.7	67.65	11	10	
			Sunny	Calm	14:15	14:16			bottom		7.86		27.3		24.54		5.67			4.67			67.6		9		
	mid-ebb	C2	Sunny	Calm	14:40	14:41	33	5.9	surface	1	7.97	7.97	29.8	29.85	18.64	18.615	3.16	5.19	3.155	6.53	6.53	6.53	95.5	95.5	6	5.5	8.5
			Sunny	Calm	14:40	14:41			surface		7.97		29.9		18.59		3.15			6.53			95.5		5		
			Sunny	Calm	14:39	14:40			bottom	4.9	7.9	7.9	27	27	25.63	25.635	7.26		7.22	5.23	5.225	5.225	75.7	75.65	10	11.5	
			Sunny	Calm	14:39	14:40			bottom		7.9		27		25.64		7.18			5.22			75.6		13		
	mid-flood	M2	Sunny	Calm	8:06	8:07	30	5.5	surface	1	7.78	7.78	28.8	28.8	14.64	14.64	3.44	5.59	3.44	5.37	5.37	5.37	75.4	75.4	3	3	3.75
			Sunny	Calm	8:06	8:07			surface		7.78		28.8		14.64		3.44			5.37			75.4		3		
			Sunny	Calm	8:05	8:06			bottom	4.5	7.82	7.82	27.8	27.75	22.04	22.085	7.65		7.73	4.93	4.93	4.93	70.9	70.9	4	4.5	
			Sunny	Calm	8:05	8:06			bottom		7.82		27.7		22.13		7.81			4.93			70.9		5		
	mid-flood	C1	Sunny	Calm	8:18	8:19	30	10.3	surface	1	7.79	7.79	28.7	28.7	15.73	15.73	3.43	5.6	3.45	5	5	4.805	70.6	70.6	5	4.5	6.83
			Sunny	Calm	8:18	8:19			surface		7.79		28.7		15.73		3.47			5			70.6		4		
			Sunny	Calm	8:17	8:18			middle	5	7.85	7.85	27.3	27.3	24.69	24.68	6.28		6.28	4.61	4.61	4.61	66.8	66.8	8	8	
			Sunny	Calm	8:17	8:18			middle		7.85		27.3		24.67		6.28			4.61			66.8		8		
			Sunny	Calm	8:16	8:17			bottom	9.3	7.82	7.82	26.6	26.6	26.99	26.985	7.06		7.06	4.16	4.16	4.16	60.4	60.4	6	8	
			Sunny	Calm	8:16	8:17			bottom		7.82		26.6		26.98		7.06			4.16			60.4		10		
	mid-flood	C2	Sunny	Calm	8:33	8:34	30	5.7	surface	1	7.83	7.83	28.7	28.7	16.62	16.62	2.88	3.21	2.885	5.59	5.585	5.585	79.3	79.25	3	2.5	3.25
			Sunny	Calm	8:33	8:34			surface		7.83		28.7		16.62		2.89			5.58			79.2		2		
			Sunny	Calm	8:32	8:33			bottom	4.7	7.87	7.87	28	28	19.98	19.995	3.52		3.525	5.44	5.44	5.44	77.6	77.6	4	4	
			Sunny	Calm	8:32	8:33			bottom		7.87		28		20.01		3.53			5.44			77.6		4		

Date (dd-mm-yyyy)	Tide	Station	Weather	Sea	Sampling Time		Ambient Temperature	Total Water Depth (m)	Level	Sampling Depth (m)	pH		Water Temperature (°C)		Salinity (ppt)		Turbidity (NTU)			DO mg/L			DO Saturation (%)		Suspended Solids (mg/L)		
			Condition	Condition	Start	Finish					Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	Value	Average	Value
9/8/2024	mid-ebb	M2	Sunny	Calm	15:03	15:04	33	5.8	surface	1	8.08	8.085	29.6	29.6	18.45	18.455	3.74	3.75	3.91	7.51	7.53	7.53	109.2	109.5	5	4.5	6.25
			Sunny	Calm	15:03	15:04			surface		8.09		29.6		18.46		3.76			7.55			109.8		4		
			Sunny	Calm	15:02	15:03			bottom	8.08	8.07	29.2	29.2	19.41	19.4	4.02	4.07	7.04		7.04	7.04	102.2	102.15	9	8		
			Sunny	Calm	15:02	15:03			bottom	8.06		29.2		19.39		4.12		7.04				102.1		7			
	mid-ebb	C1	Sunny	Calm	15:18	15:19	33	11.7	surface	1	8.07	8.07	30.3	30.31	15.17	15.165	2.87	2.86	3.18	7.88	7.875	7.353	113.7	113.75	4	4	5.17
			Sunny	Calm	15:18	15:19			surface		8.07		30.3		15.16		2.85			7.87			113.8		4		
			Sunny	Calm	15:17	15:18			middle	8	8	28.8	28.75	20.37	20.325	3.45	3.47	6.87		6.83	6.66	99.4	98.9	4	4.5		
			Sunny	Calm	15:17	15:18			middle	8		28.7		20.28		3.49		6.79				98.4		5			
			Sunny	Calm	15:16	15:17			bottom	7.97	7.975	28.6	28.65	20.51	20.495	3.2	3.22	6.66		6.66	6.66	96.3	96.4	7	7		
			Sunny	Calm	15:16	15:17			bottom	7.98		28.7		20.48		3.24		6.66				96.5		7			
	mid-ebb	C2	Sunny	Calm	15:47	15:48	33	5.9	surface	1	8.1	8.1	30.1	30.1	15.76	15.75	2.93	2.95	3.28	8.02	8.09	8.09	115.8	116.9	4	4	4.75
			Sunny	Calm	15:47	15:48			surface		8.1		30.1		15.74		2.97			8.16			118		4		
			Sunny	Calm	15:46	15:47			bottom	8.05	8.035	29	29	19.36	19.325	3.69	3.605	7.01		7.015	7.015	101.5	101.6	6	5.5		
			Sunny	Calm	15:46	15:47			bottom	8.02		29		19.29		3.52		7.02				101.7		5			
	mid-flood	M2	Sunny	Calm	9:10	9:11	30	5.2	surface	1	7.84	7.84	29.1	29.05	16.84	16.765	4.14	4.29	6.86	6.08	6.075	6.075	86.8	86.65	4	5	9
			Sunny	Calm	9:10	9:11			surface		7.84		29		16.69		4.44			6.07			86.5		6		
			Sunny	Calm	9:08	9:09			bottom	7.79	7.795	27.9	28.1	21.33	20.425	10.9	9.435	4.95		5.185	5.185	71.8	74.65	13	13		
			Sunny	Calm	9:08	9:09			bottom	7.8		28.3		19.52		7.96		5.42				77.5		13			
	mid-flood	C1	Sunny	Calm	9:20	9:21	30	11	surface	1	7.87	7.875	29.3	29.35	14.6	14.595	3.11	3.085	4.58	6.09	6.12	5.713	86.3	86.75	4	3.5	5.17
			Sunny	Calm	9:20	9:21			surface		7.88		29.4		14.59		3.06			6.15			87.2		3		
			Sunny	Calm	9:19	9:20			middle	7.87	7.87	28.2	28.15	21.67	21.77	5.1	5.16	5.36		5.305	4.94	77.6	76.75	6	5.5		
			Sunny	Calm	9:19	9:20			middle	7.87		28.1		21.87		5.22		5.25				75.9		5			
			Sunny	Calm	9:18	9:19			bottom	7.83	7.835	27.7	27.65	23.87	24.14	6.45	5.495	5.02		4.94	4.94	72.9	71.8	6	6.5		
			Sunny	Calm	9:18	9:19			bottom	7.84		27.6		24.41		4.54		4.86				70.7		7			
	mid-flood	C2	Sunny	Calm	9:44	9:45	30	5.8	surface	1	7.96	7.955	29.5	29.5	15.31	15.315	3.21	3.18	3.43	6.69	6.695	6.695	95.5	95.55	4	3.5	3.25
			Sunny	Calm	9:44	9:45			surface		7.95		29.5		15.32		3.15			6.7			95.6		3		
			Sunny	Calm	9:43	9:44			bottom	7.92	7.91	28.5	28.5	20.32	20.255	3.76	3.675	5.72		5.695	5.695	82.4	82.05	2	3		
			Sunny	Calm	9:43	9:44			bottom	7.9		28.5		20.19		3.59		5.67				81.7		4			

Date (dd-mm-yyyy)	Tide	Station	Weather	Sea	Sampling Time		Ambient Temperature	Total Water Depth (m)	Level	Sampling Depth (m)	pH		Water Temperature (°C)		Salinity (ppt)		Turbidity (NTU)			DO mg/L			DO Saturation (%)		Suspended Solids (mg/L)			
			Condition	Condition	Start	Finish					Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	Value	Average	Value	Average
12/8/2024	mid-ebb	M2	Fine, hot	Calm	15:06	15:07	32	5.8	surface	1	8.08	8.085	29.6	29.6	18.45	18.455	3.74	3.75	3.91	7.51	7.53	7.53	109.2	109.5	2	2	5.75	
			Fine, hot	Calm	15:06	15:07			surface		8.09		29.6		18.46		3.76			7.55			109.8		2			
			Fine, hot	Calm	15:05	15:06			bottom	8.08	8.07	29.2	29.2	19.41	19.4	4.02	4.07	7.04		7.04	7.04	102.2	102.15	9	10	9.5		
			Fine, hot	Calm	15:05	15:06			bottom	8.06		29.2		19.39		4.12		7.04			102.1	10						
	mid-ebb	C1	Fine, hot	Calm	15:32	15:33	32	11.7	surface	1	8.07	8.07	30.3	30.3	15.17	15.165	2.87	2.86	3.18	7.88	7.875	7.353	113.7	113.75	3	3	5.83	
			Fine, hot	Calm	15:32	15:33			surface		8.07		30.3		15.16		2.85			7.87			113.8		3			
			Fine, hot	Calm	15:31	15:32			middle	8	8	28.8	28.75	20.37	20.325	3.45	3.47	6.87		6.83	6.66	99.4	98.9	5	5	9.5		
			Fine, hot	Calm	15:31	15:32			middle	8		28.7		20.28		3.49		6.79				98.4		5				
			Fine, hot	Calm	15:30	15:31			bottom	10.7	7.97	7.975	28.6	28.65	20.51	20.495	3.2	3.22		6.66	6.66	6.66	96.3	96.4	9	10		9.5
			Fine, hot	Calm	15:30	15:31			bottom		7.98		28.7		20.48		3.24			6.66		96.5	10					
	mid-ebb	C2	Fine, hot	Calm	15:49	15:50	32	5.9	surface	1	8.1	8.1	30.1	30.1	15.76	15.75	2.93	2.95	3.28	8.02	8.09	8.09	115.8	116.9	2	3	2.5	
			Fine, hot	Calm	15:49	15:50			surface		8.1		30.1		15.74		2.97			8.16			118		3			
			Fine, hot	Calm	15:48	15:49			bottom	4.9	8.05	8.035	29	29	19.36	19.325	3.69	3.605		7.01	7.015	7.015	101.5	101.6	3	2		2.5
			Fine, hot	Calm	15:48	15:49			bottom		8.02		29		19.29		3.52			7.02		101.7	2					
	mid-flood	M2	Fine	Calm	9:05	9:07	26	5.2	surface	1	7.84	7.84	29.1	29.05	16.84	16.765	4.14	4.29	6.3	6.08	6.075	6.075	86.8	86.65	2	4	3.75	
			Fine	Calm	9:05	9:07			surface		7.84		29		16.69		4.44			6.07			86.5		4			
			Fine	Calm	9:03	9:04			bottom	4.2	7.79	7.795	27.9	28.1	21.33	20.425	8.64	8.3		4.95	5.185	5.185	71.8	74.65	4	5		4.5
			Fine	Calm	9:03	9:04			bottom		7.8		28.3		19.52		7.96			5.42		77.5	5					
	mid-flood	C1	Fine	Calm	9:26	9:27	26	11	surface	1	7.87	7.875	29.3	29.35	14.6	14.595	3.11	3.085	4.58	6.09	6.12	5.723	86.3	86.8	3	3	3.33	
			Fine	Calm	9:26	9:27			surface		7.88		29.4		14.59		3.06			6.15			87.3		3			
			Fine	Calm	9:25	9:26			middle	6	7.87	7.87	28.2	28.15	21.67	21.77	5.1	5.16		5.3	5.325	4.94	77.6	76.75	4	4		4
			Fine	Calm	9:25	9:26			middle		7.87		28.1		21.87		5.22			5.35			75.9		4			
			Fine	Calm	9:24	9:25			bottom	10	7.83	7.835	27.7	27.65	23.87	24.14	6.45	5.495		5.02	4.94	4.94	72.9	71.8	3	3		3
			Fine	Calm	9:24	9:25			bottom		7.84		27.6		24.41		4.54			4.86		70.7	3					
	mid-flood	C2	Fine	Calm	9:45	9:46	26	5.8	surface	1	7.96	7.955	29.5	29.5	15.31	15.315	3.21	3.18	3.43	6.69	6.695	6.695	95.5	95.55	2	3	4.5	
			Fine	Calm	9:45	9:46			surface		7.95		29.5		15.32		3.15			6.7			95.6		3			
			Fine	Calm	9:44	9:45			bottom	4.8	7.92	7.91	28.5	28.5	20.32	20.255	3.76	3.675		5.72	5.695	5.695	82.4	82.05	7	6		6.5
			Fine	Calm	9:44	9:45			bottom		7.9		28.5		20.19		3.59			5.67		81.7	6					

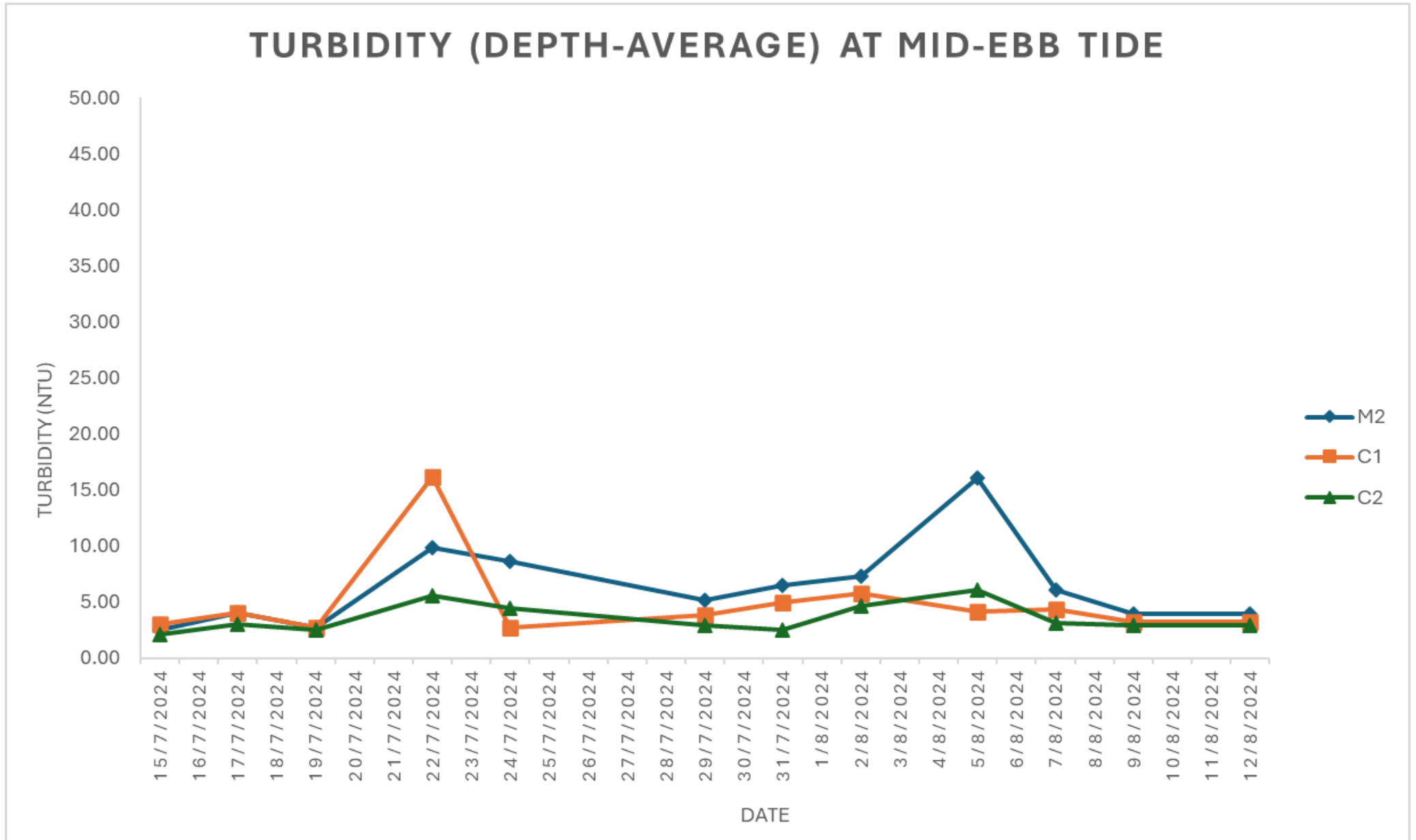
*DA = Depth Average

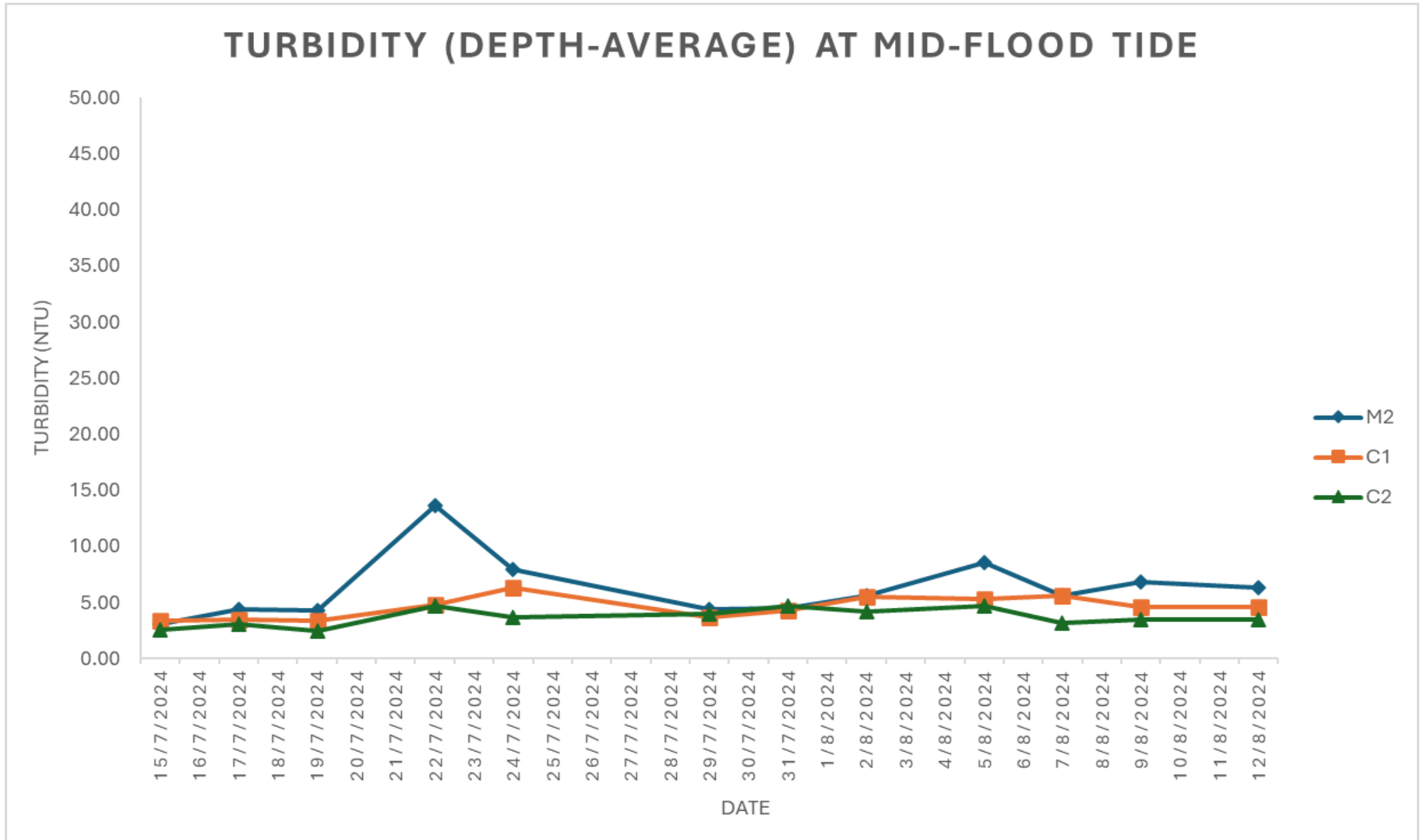
^ Data excluded

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

Appendix C

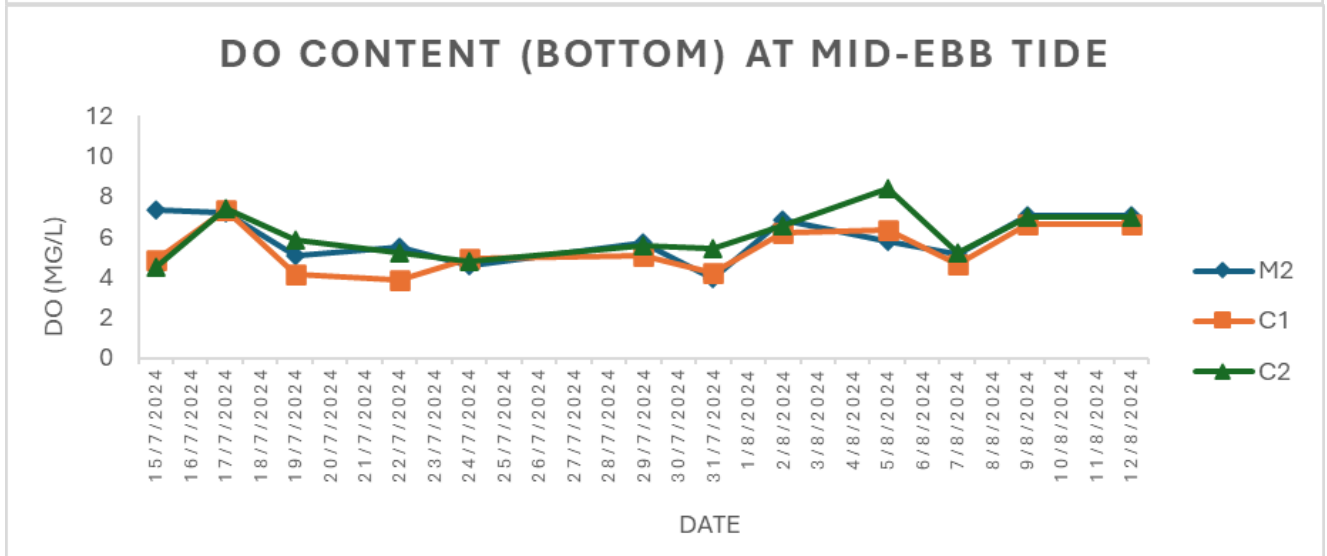
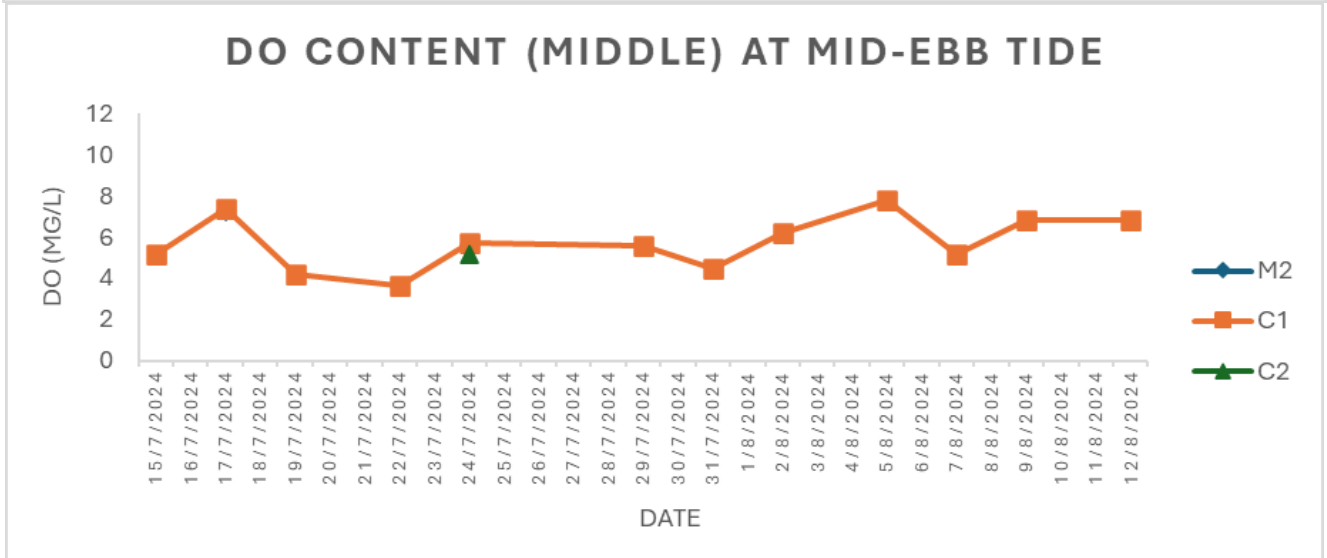
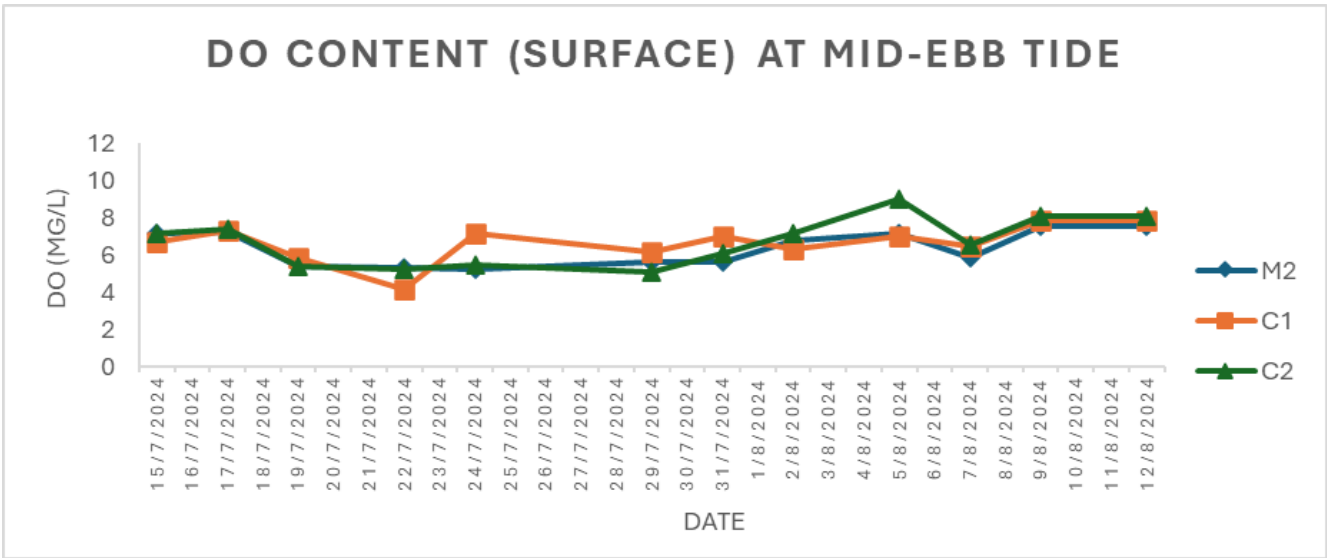
Graphical Plots of Baseline Monitoring Data

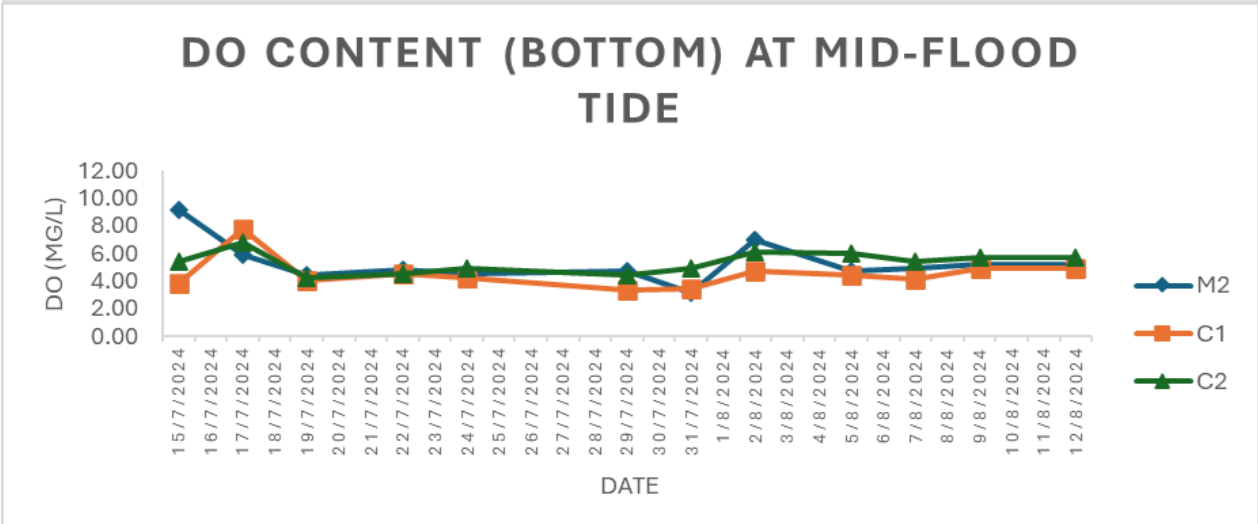
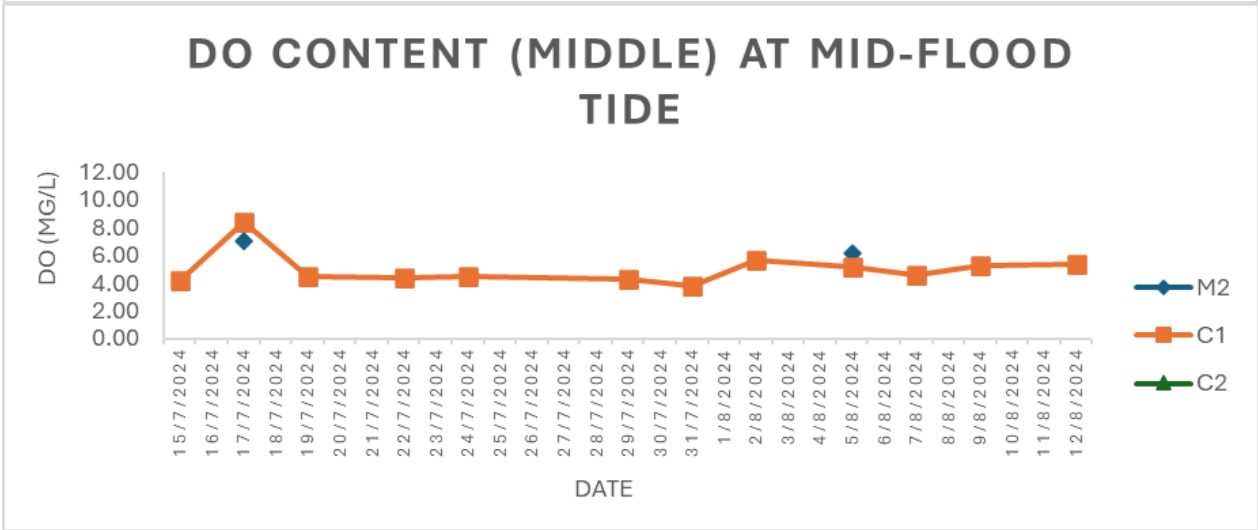
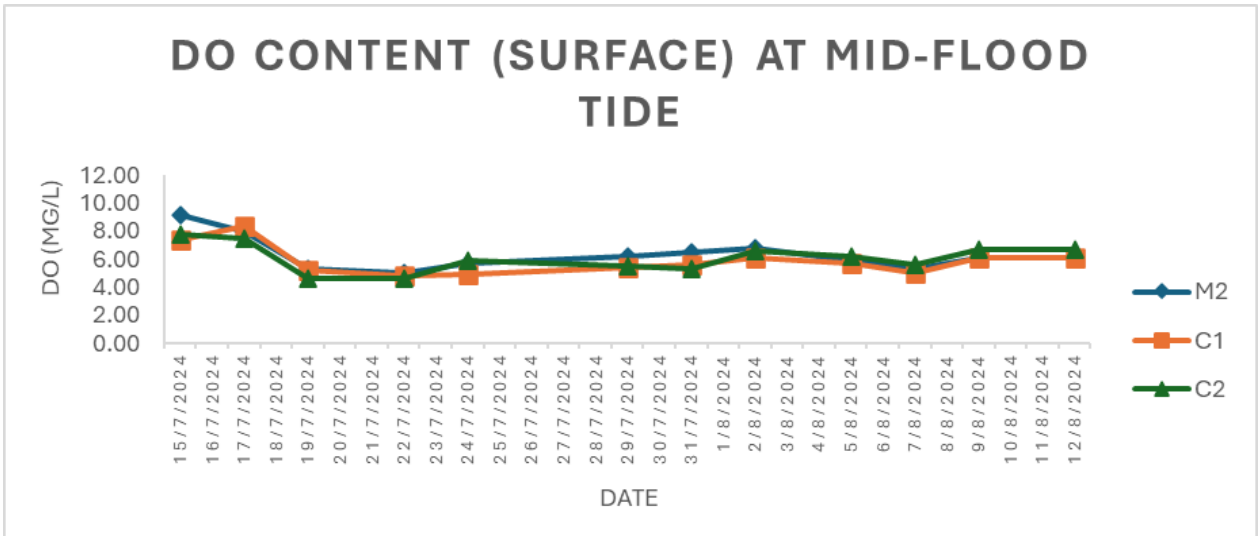




Date	Turbidity (NTU)																							
	M2								C1								C2							
	Mid-Ebb				Mid-Flood				Mid-Ebb				Mid-Flood				Mid-Ebb				Mid-Flood			
	S	M	B	Ave	S	M	B	Ave	S	M	B	Ave	S	M	B	Ave	S	M	B	Ave	S	M	B	Ave
15/7/2024	2.325	---	2.675	2.50	3.435	---	2.71	3.07	2.815	3.095	3.04	2.98	4.03	3.04	3.075	3.38	2.12	---	2.12	2.12	2.575	---	2.495	2.54
17/7/2024	4.07	4	4.02	4.03	4.68	4.41	3.96	4.35	4.115	4.02	4.11	4.08	4.01	3.7	2.72	3.48	3.02	---	3.02	3.02	2.925	---	3.25	3.09
19/7/2024	2.795	---	2.73	2.76	3.875	---	4.7	4.29	3.295	2.49	2.22	2.67	4.975	3.035	1.985	3.33	2.46	---	2.46	2.46	2.425	---	2.41	2.42
22/7/2024	8.04	---	11.63	9.84	4.38	---	22.925	13.65	7.01	13.775	27.625	16.14	4.355	4.9	5.01	4.76	5.535	---	5.535	5.54	4.365	---	5.045	4.71
24/7/2024	6.445	7.85	11.47	8.59	1.99	---	13.925	7.96	1.845	2.84	3.415	2.70	6.625	6.69	5.535	6.28	4.13	5.05	4.13	4.44	2.115	---	5.27	3.69
29/7/2024	5.07	---	5.245	5.16	5.115	---	3.57	4.34	3.99	3.415	4.255	3.89	3.09	2.345	5.68	3.71	2.885	---	2.885	2.89	2.775	---	5.235	4.01
31/7/2024	5.97	---	6.925	6.45	3.86	3.39	6.115	4.46	6.51	3.57	4.875	4.99	4.64	4.38	3.975	4.33	2.485	---	2.485	2.49	4.93	---	4.51	4.72
2/8/2024	8.63	---	5.99	7.31	4.555	---	6.645	5.60	3.06	5.02	9.37	5.82	6.075	5.245	5.35	5.56	4.67	---	4.67	4.67	4.26	---	4.145	4.20
5/8/2024	14.47	---	17.77	16.12	4.645	5.79	15.25	8.56	3.315	3.46	5.575	4.12	4.68	5.235	6.08	5.33	6.1	---	6.1	6.10	4.475	---	4.84	4.66
7/8/2024	4.215	---	8.02	6.12	3.44	---	7.73	5.59	2.3	4.97	5.7	4.32	3.45	6.28	7.06	5.60	3.155	---	3.155	3.16	2.885	---	3.525	3.21
9/8/2024	3.75	---	4.07	3.91	4.29	---	9.435	6.86	2.86	3.47	3.22	3.18	3.085	5.16	5.495	4.58	2.95	---	2.95	2.95	3.18	---	3.675	3.43
12/8/2024	3.75	---	4.07	3.91	4.29	---	8.3	6.30	2.86	3.47	3.22	3.18	3.085	5.16	5.495	4.58	2.95	---	2.95	2.95	3.18	---	3.675	3.43

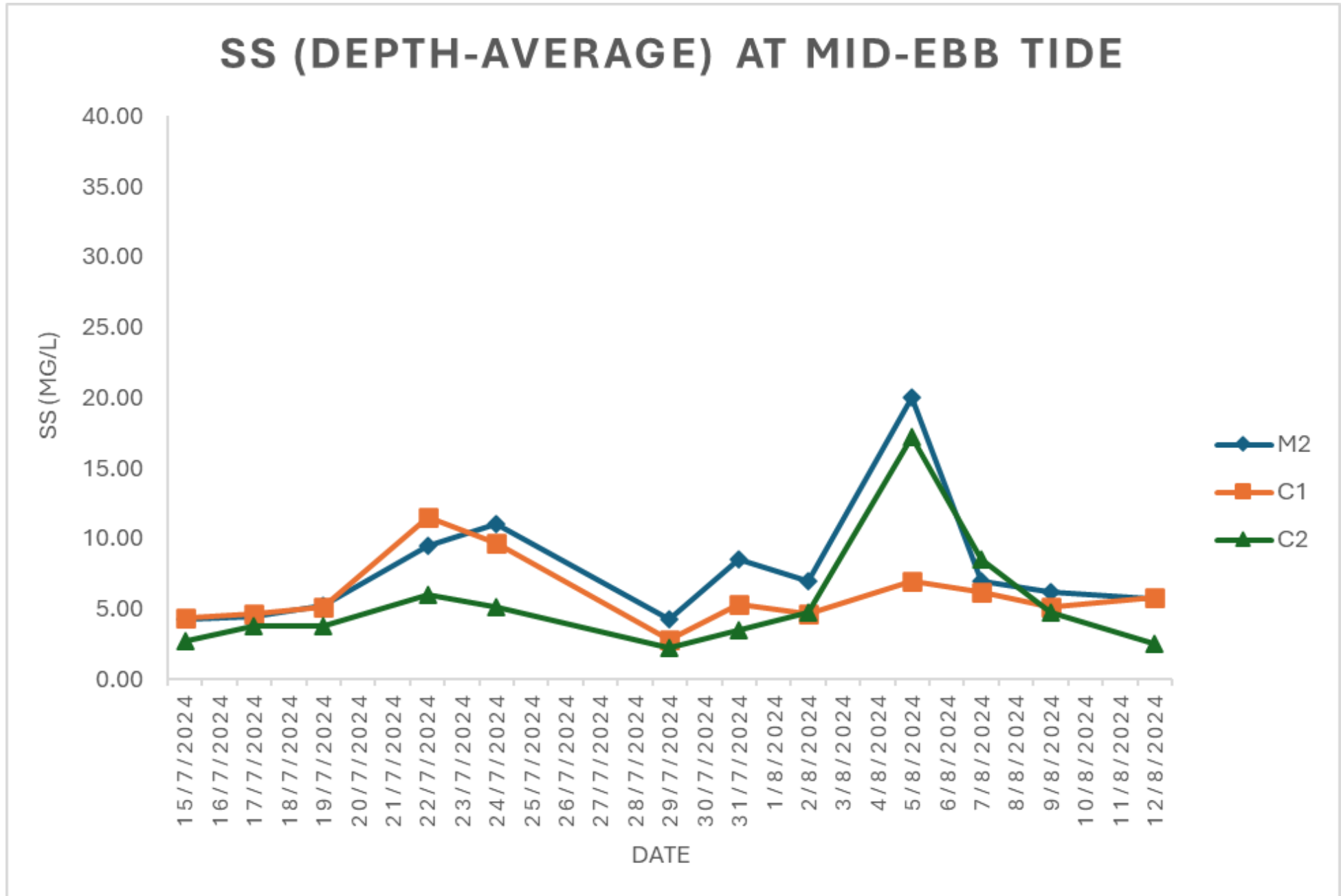
* S=surface, M=middle, B=bottom

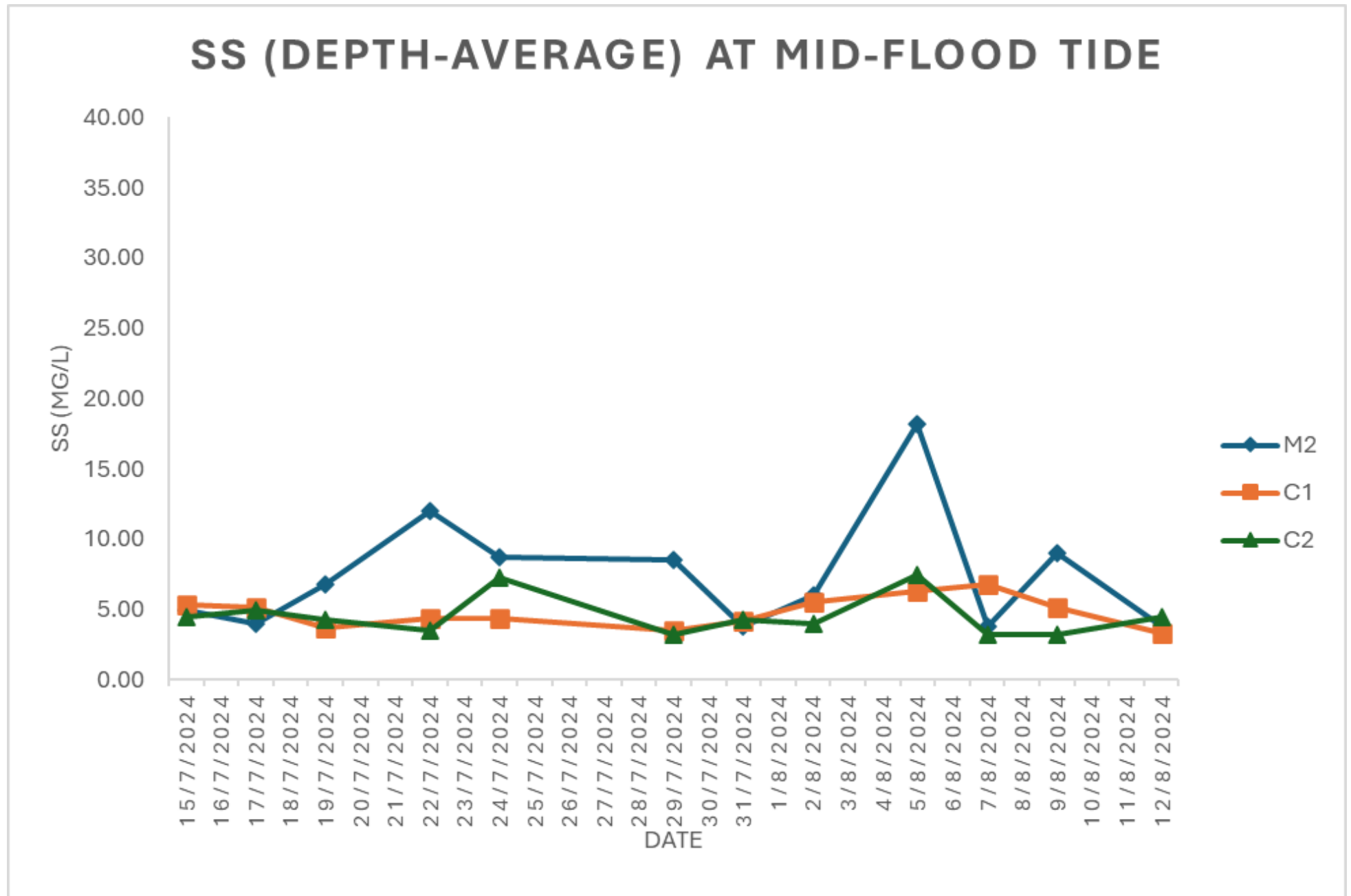




Date	DO mg/L																	
	M2						C1						C2					
	Mid-Ebb			Mid-Flood			Mid-Ebb			Mid-Flood			Mid-Ebb			Mid-Flood		
	S	M	B	S	M	B	S	M	B	S	M	B	S	M	B	S	M	B
15/7/2024	7.15	---	7.38	9.12	---	9.14	6.68	5.14	4.89	7.35	4.24	3.85	7.20	---	4.52	7.78	---	5.43
17/7/2024	7.25	7.24	7.24	7.99	7.06	5.89	7.30	7.35	7.35	8.41	8.40	7.78	7.38	---	7.40	7.48	---	6.82
19/7/2024	5.37	---	5.05	5.33	---	4.44	5.84	4.18	4.15	5.20	4.54	4.01	5.37	---	5.85	4.68	---	4.29
22/7/2024	5.30	---	5.50	5.05	---	4.87	4.14	3.64	3.89	4.83	4.40	4.58	5.26	---	5.24	4.64	---	4.58
24/7/2024	5.28	5.67	4.62	5.70	---	4.59	7.17	5.72	4.98	4.89	4.47	4.27	5.50	5.19	4.77	5.88	---	4.98
29/7/2024	5.65	---	5.71	6.20	---	4.74	6.18	5.57	5.06	5.38	4.34	3.33	5.11	---	5.57	5.53	---	4.42
31/7/2024	5.60	---	3.95	6.47	3.68	3.18	7.03	4.46	4.23	5.66	3.79	3.50	6.08	---	5.42	5.34	---	4.89
2/8/2024	6.78	---	6.87	6.80	---	7.03	6.36	6.23	6.21	6.08	5.67	4.77	7.21	---	6.54	6.60	---	6.13
5/8/2024	7.16	---	5.79	5.90	6.15	4.73	6.99	7.82	6.36	5.67	5.22	4.44	9.01	---	8.39	6.23	---	6.04
7/8/2024	5.86	---	5.18	5.37	---	4.93	6.49	5.16	4.68	5.00	4.61	4.16	6.53	---	5.23	5.59	---	5.44
9/8/2024	7.53	---	7.04	6.08	---	5.19	7.88	6.83	6.66	6.12	5.31	4.94	8.09	---	7.02	6.70	---	5.70
12/8/2024	7.53	---	7.04	6.08	---	5.19	7.88	6.83	6.66	6.12	5.33	4.94	8.09	---	7.02	6.70	---	5.70

* S=surface, M=middle, B=bottom





Date	SS mg/L																							
	M2								C1								C2							
	Mid-Ebb				Mid-Flood				Mid-Ebb				Mid-Flood				Mid-Ebb				Mid-Flood			
	S	M	B	Ave	S	M	B	Ave	S	M	B	Ave	S	M	B	Ave	S	M	B	Ave	S	M	B	Ave
15/7/2024	3	--	5.5	4.25	5.5	--	4.5	5.00	4	4.5	4.5	4.33	4.5	5	6.5	5.33	2.5	--	3	2.75	4.5	--	4.5	4.50
17/7/2024	4	5	excluded	4.5	3.5	4.5	excluded	4.00	3.5	3	7.5	4.67	5	4	6.5	5.17	3.5	--	4	3.75	3	--	7	5.00
19/7/2024	6.5	--	4	5.25	5.5	--	8	6.75	3.5	4.5	7.5	5.17	4.5	3.5	3	3.67	3.5	--	4	3.75	3	--	5.5	4.25
22/7/2024	10.5	--	8.5	9.50	21	--	3	12.00	16.5	10	8	11.50	4.5	4.5	4	4.33	6	--	6	6.00	3	--	4	3.50
24/7/2024	3.5	9	20.5	11.00	7.5	--	15	8.75	10.5	9.5	9	9.67	3.5	4.5	5	4.33	4	4.5	7	5.17	7	--	7.5	7.25
29/7/2024	4	--	4.5	4.25	2	--	2.5	8.50	2	3	3.5	2.83	2	2.5	6	3.50	2.5	--	2	2.25	2	--	4.5	3.25
31/7/2024	6.5	--	10.5	8.50	4	5	10	3.83	6	4	6	5.33	4	4	4.5	4.17	2.5	--	4.5	3.50	4	--	4.5	4.25
2/8/2024	7.5	--	6.5	7.00	5	--	7	6.00	4.5	5.5	4	4.67	5.5	5	6	5.50	4.5	--	5	4.75	3.5	--	4.5	4.00
5/8/2024	16	--	24	20.00	5	5	44.5	18.17	5	8.5	7.5	7.00	5	7.5	6.5	6.33	15.5	--	19	17.25	5.5	--	9.5	7.50
7/8/2024	5.5	--	8.5	7.00	3	--	4.5	3.75	2	6.5	10	6.17	4.5	8	8	6.83	5.5	--	11.5	8.50	2.5	--	4	3.25
9/8/2024	4.5	--	8	6.25	5	--	13	9.00	4	4.5	7	5.17	3.5	5.5	6.5	5.17	4	--	5.5	4.75	3.5	--	3	3.25
12/8/2024	2	--	9.5	5.75	3	--	4.5	3.75	3	5	9.5	5.83	3	4	3	3.33	2.5	--	2.5	2.50	2.5	--	6.5	4.50

* S=surface, M=middle, B=bottom

* The monitoring data of SS on 17 July 2024 at monitoring station M2 (Mid-Flood and Mid-Ebb bottom level) were abnormally high (greater 90mg/L in SS), these sets of data from these monitoring stations were excluded from the determination of Action and Limit Level