

生態系統顧問有限公司

ECOSYSTEMS LTD.

Your ref.

Our ref. 2486-1/LCS/L014

12 December 2024 Date:

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

By Post and Email

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

Dear MR. WONG,

Contract No. PW 1/2024 Environmental Monitoring Works for Lung Kwu Chau Jetty **Repair Works Submission of Monthly EM&A Report (Issue 1)**

Pursuant to Conditions 4.6 of the EP No. EP-150/2002/A, we hereby submit the Monthly EM&A Report (Issue 1) 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.



生態系統顧問有限公司

ECOSYSTEMS LTD.

Your ref.

2486-1/LCS/L013 Our ref.

By Post and Email

Date: 12 December 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 Monthly EM&A Report (Issue 1)**

Pursuant to Conditions 4.6 of the EP No. EP-150/2002/A, we hereby certify the Monthly EM&A Report (Issue 1) 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

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UMWELT CONSULTING LIMITED

23/F, On Hong Commercial Building, 145 Hennessy Road, Wan Chai, Hong Kong

By Post

Our Ref : P240304 -EMA-202411-V Date : 13th December 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 Monthly EM&A Report for November 2024

Dear Sir,

Pursuant to Condition 4.6 of Environmental Permit (EP) No. EP-150/2002/A, please note the report "Monthly EM&A Report No. 3 (Issue 1)" dated 11 December 2024 submitted under the EP, certified by the Environmental Team Leader on 12 December 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 o Chung Ivan

Independent Engineer

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

Monthly EM&A Report No. 3 (Issue 1)



Ecosystems Limited 生態系統顧問有限公司

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ISSUES AND REVISION RECORD

Issue	Date	Description
1	11 Dec 2024	Draft Issue

	Name	Role	Signature	Date
Prepared by	Ant LAM	Assistant Ecologist	AP	11/12/2024
Checked by	Klinsmann CHEUNG	Ecologist		11/12/2024
Approved by	Vincent LAI	Environmental Team Leader	ly	11/12/2024

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 responsible for 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 to 12 August 2024. The proposed repair works commenced on 23rd September 2024 and respective monitoring was also commenced.

Monitoring parameters including Dissolved Oxygen (DO), Turbidity and Suspended Solids (SS), 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.

This is the 3rd EM&A report submitted under Condition 4.2 of the EP No. EP-150/2002/A. This report summarizes the findings on EM&A during the period from 1st to 30th November 2024.

Exceedance of Action and Limit Levels

During the monitoring period in November 2024, high levels of turbidity and suspended solids were recorded on 18th November 2024 at control stations C1 and C2. The high level was probably due to localized natural variations. No Project-related Action or Limit Level exceedance was recorded.

Implementation of Mitigation Measures

The monthly joint site inspection was carried out on 8th November 2024 with IE and CEDD, and four weekly site inspections were carried out on 8th, 15th, 22nd and 29th November 2024 to confirm the implementation measures undertaken by the Contractor in the reporting month. The outcomes are presented in **Section 3.2**.

Record of Complaints

There was no record of complaints received, and no notifications of any summons and successful prosecutions in the reporting month.

Future Key Issues

Construction activities to be undertaken in the next reporting period i.e. December 2024 include coring 219mm dia. holes for anchor posts, installation of anchor posts, erection of formwork for the slab and placing concrete for the slab at the pier head and catwalk. Potential environmental impacts due to the construction activities will be monitored.

Environmental mitigation measures will be implemented on site as recommended, monthly joint site inspection, and weekly site audits will be carried out to ensure that the environmental conditions are acceptable.

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 Project Organization

1.2.1 The project organization structure and lines of communication with respect to the environmental management structure is shown below:

Environmental Project Protection Proponent Department (EPD) Engineer or Independent Engineer's Engineer Representative (IE) (ER) The Contractor Environmental Team (ET)

Project Organization for Environmental Works

1.2.2 The key personnel and contact are summarized in **Table 1.1**.

Table 1.1 Contact Information of Key Personnel

Party	Position	Name	Telephone	Fax
CEDD (Project	Engineer	Kalvin Li	2762 5567	2714 2054
Proponent)	-			
Contractor (Build King – CRCC Harbour Joint Venture)	Site Agent	Jerry Lau	6353 5489	-
Ecosystems Ltd.	Environmental Team Leader	Vincent Lai	2553 0468	2552 9191
Umwelt Consulting Ltd.	Independent Engineer	Ivan Ting	3756 9590	3582 3310

Line of Communication

1.3 Summary of Construction Activities

- 1.3.1 Summary of construction works and construction waste created in November 2024:
 - Maintaining the double silt curtain;
 - Coring 219mm dia. holes for anchor posts at the pier head of the jetty;
 - Installation of anchor posts;
 - Erection of formwork for the slab:
 - Construction waste created around 38m³
- 1.3.2 The construction works programme of the Project is provided in **Appendix A**.

1.4 Summary of EM&A Programme Requirements

1.4.1 The status of EM&A programme for the relevant environmental aspects required under the EM&A Manual is presented in **Table 1.2**. The requirements of relevant environmental monitoring are presented in **Section 2**.

Table 1.2 Summary of Status for the Relevant EM&A Programme under the EM&A Manual

Parameters	Descriptions	Locations	Frequencies	Status
Water Quality	Dissolved oxygen (DO), dissolved oxygen saturation (DO%, temperature, turbidity, salinity, pH and suspended solids (SS)	C1, C2 and M2	3 days per week	On-going
Environmental Site Inspection	Mitigation measures, and waste management	Project Site	Weekly	On-going
Joint Site Environmental Audit	Mitigation measures, and waste management	Project Site	Monthly	On-going

2. ENVIRONMENTAL MONITORING AND AUDIT RESULTS

2.1 Summary of EM&A Manual's Requirement

2.1.1 In accordance with the EM&A Manual under the Project, impact monitoring shall be conducted during construction phase during dredging works. However, no dredging works are proposed for the present repairing works. The purpose of the present impact monitoring is to ensure the implementation of the recommended mitigation measures, provide effective control of any malpractices, and provide continuous improvements to the environmental conditions. The interval between two sets of monitoring shall not be less than 36 hours with a frequency of 3 days a week, at mid-flood and mid-ebb tides. The baseline conditions included 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 water quality impact monitoring under this Project are presented in the following sections.

2.2 Monitoring Locations

2.2.1 Water quality impact monitoring was carried out at 3 locations within Sha Chau and Lung Kwu Chau Marine Park. 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 also recorded during the monitoring.

Table 2.2 Monitoring Parameters

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

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	рН		

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 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 Monitoring Programme in November 2024

	rogramme in November	
Monitoring Date	1st Tide Monitoring	2nd Tide Monitoring
1/11/2024 (Fri)	12:00 Mid-Ebb	18:00 Mid-Flood
4/11/2024 (Mon)	09:00 Mid-Flood	14:00 Mid-Ebb
6/11/2024 (Wed)	10:00 Mid-Flood	15:00 Mid-Ebb
#* 8/11/2024 (Fri)	07:00 Mid-Ebb	14:00 Mid-Flood
11/11/2024 (Mon)	09:00 Mid-Ebb	15:00 Mid-Flood
^ 13/11/2024 (Wed)	10:00 Mid-Ebb	16:00 Mid-Flood
* 15/11/2024 (Fri)	11:00 Mid-Ebb	17:00 Mid-Flood
18/11/2024 (Mon)	09:00 Mid-Flood	14:00 Mid-Ebb
20/11/2024 (Wed)	09:00 Mid-Flood	15:00 Mid-Ebb
* 22/11/2024 (Fri)	07:00 Mid-Ebb	13:00 Mid-Flood
25/11/2024 (Mon)	09:00 Mid-Ebb	15:00 Mid-Flood
27/11/2024 (Wed)	10:00 Mid-Ebb	16:00 Mid-Flood
* 29/11/2024 (Fri)	07:00 Mid-Flood	12:00 Mid-Ebb

^{*} Date of site inspection

[#] Date of joint site inspection

[^] Monitoring cancelled due to adverse weather on 13/11/2024 (typhoon signal No. 3)

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 recalibrated 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 Heath 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 B**.

Table 2.7 Details 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)	9/10/2024	8/01/2025
Turbidity	YSI ProDSS Turbidity (24E105092)	9/10/2024	8/01/2025
Salinity	YSI ProDSS Conductivity (24F101051)	9/10/2024	8/01/2025
рН	YSI ProDSS pH sensor (24G100579)	9/10/2024	8/01/2025
Water Depth	HONDEX PS-7	N/A	N/A

3. RESULTS AND OBSERVATION

3.1 Results

General

3.1.1 Water quality impact monitoring was conducted three times per week at 3 monitoring stations (C1, C2 & M2) from 1/11/2024 to 30/11/2024. The monitoring results with weather and sea conditions at each monitoring day were attached in **Appendices C1 and C2**.

Action and Limit Levels

3.1.2 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 3.1**.

Table 3.1 Action and Limit Level for Marine Water Quality at Lung Kwu Chau

Parameters	Action Level	Limit Level
Dissolved Oxygen (DO), in mg/L	Surface and Middle 5.05 mg/L	Surface and Middle 4 mg/L or 3.68 mg/L
(Surface, Middle and Bottom)	Bottom 3.94 mg/L	Bottom 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.

3.1.3 During the monitoring period in November 2024, high levels of turbidity and suspended solids were recorded on 18th November 2024 at control stations C1 and C2. The high level was probably due to localized natural variations. No Project-related Action or Limit Level exceedance was recorded. The summary of marine water quality exceedances is shown in **Table 3.2**. Summary of the water monitoring results from all monitoring stations during the reporting period is shown in **Table 3.3**.

Table 3.2 Daily Exceedance Summary of Marine Water Quality

			November 202		or quarry	
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					No exceedances in all WMP*	2
3	4 No exceedances in all WMP*	5	6 No exceedances in all WMP*	7	8 No exceedances in all WMP*	9
10	11 No exceedances in all WMP*	12	Monitoring cancelled due to adverse weather (typhoon signal No. 3)	14	No exceedances in all WMP*	16
17	At mid-ebb (a.m.) High level of suspended solids in C1 and high level of turbidity in C1 and C2 At mid-flood (p.m.) High level of turbidity in C2	19	20 No exceedances in all WMP*	21	No exceedances in all WMP*	23
24	25 No exceedances in all WMP*	26	27 No exceedances in all WMP*	28	29 No exceedances in all WMP*	30

Remarks:

^{*} WMP = Water monitoring parameters

Table 3.3 Summary of the Water Monitoring Results from All Monitoring Stations

Monitoring	parameters	Mor	nitoring Statio	ns		n and Level
	•	C1	M2	C2	AL	LL
	Surface & Middle Depth Average	5.76	5.9	5.84		
	Surface & Middle Depth Max	6.13	6.2	6.3	5.05	4 or 3.68
DO (mg/L)	Surface & Middle Depth Min	5.25	5.49	5.5		
	Bottom Depth Average	5.73	5.89	5.81		2 or
	Bottom Depth Max	6.26	6.4	6.47	3.94	3.17
	Bottom Depth Min	5.21	5.42	5.45		
	Average	5.94	4.81	5.91		
Turbidity (NTU)	Max	63.05	14.81	25.24	15.29	22.57
()	Min	1.36	1.53	1.18		
Suspended	Average	8.47	7.42	8.22		
Solids	Max	71	22	26	20.95	41.82
(mg/L)	Min	2	2	2		

Remarks:

- AL = Action Level
- LL = Limit Level
- 3.1.4 In case of any exceedance of the Action or Limit Levels, appropriate actions set out in the Event and Action Plan from the EM&A Manual (**Appendix D**), shall be taken upon ETL's notification.
- 3.1.5 Graphical plots of impact monitoring data since September 2024 are shown in **Appendix E**.

3.2 Environmental Site Inspection

- 3.2.1 Regular environmental site inspections were carried out with the Contractor to confirm the implementation of appropriate environmental protection and pollution control mitigation measures under the Project.
- 3.2.2 In the reporting period, one environmental joint site inspection was carried out on 8th November 2024 with IE and CEDD, and four weekly site inspections were carried out on 8th, 15th, 22nd and 29th November 2024. The checklists of the site inspections are shown in **Appendix F**.

3.2.3 Waste management audits were also performed during the regular environmental site inspections carried out in the reporting period. No non-compliance for Contractor's waste management practices was identified during the audits. There were about 38m³ of construction waste were generated by the Contractor during the reporting month. The construction waste generated in October and November 2024 has been stored in the hopper of the derrick lighter for proper treatment in later months.

3.3 Summary of Environmental Complaints, Notification of Summons and Successful Prosecutions

3.3.1 There were no environmental complaints, notification of summons and successful prosecutions recorded in the reporting period.

4. FORECAST FOR THE NEXT REPORTING PERIOD

4.1 Works Programme for the Next Reporting Period

- 4.1.1 Tentative construction works in December 2024:
 - Coring 219mm dia. holes for anchor posts;
 - Installation of anchor posts;
 - Erection of formwork for the slab:
 - Placing concrete for the slab at the pier head and catwalk.
- 4.1.2 Potential environmental impacts due to the construction activities will be monitored. The ET will keep track on the construction activities to confirm compliance of environmental requirements and the proper implementation of all necessary mitigation measures.

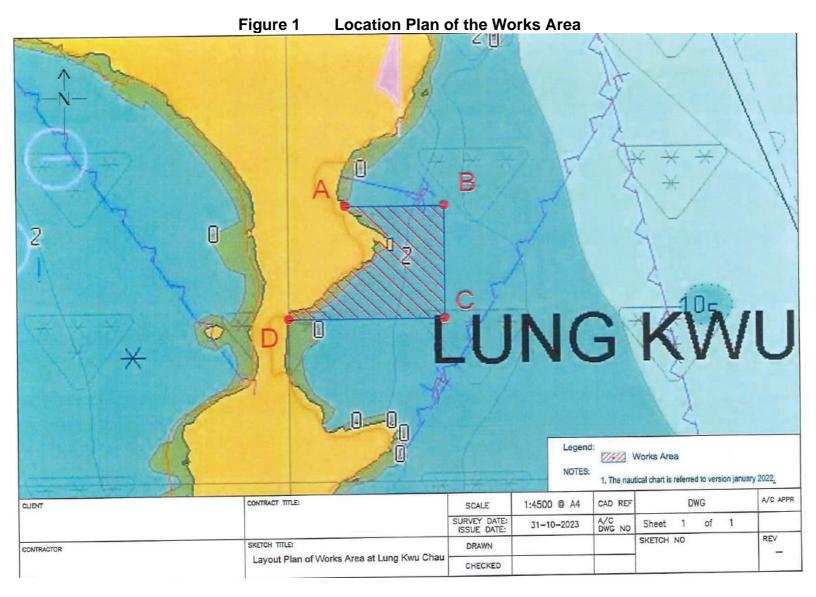
4.2 Monitoring Schedule for the Next Reporting Period

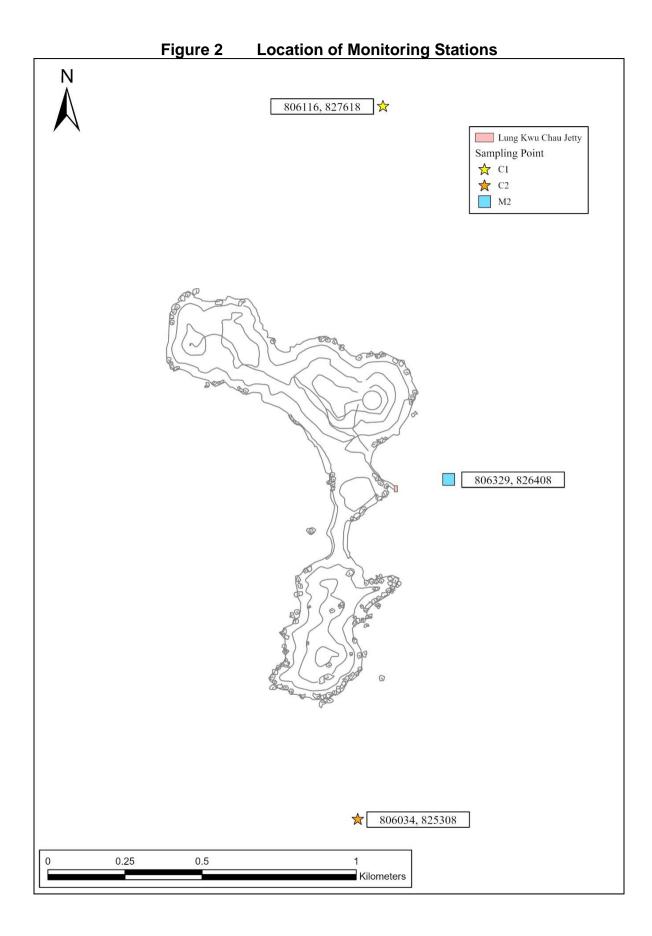
4.2.1 The tentative schedule for marine water quality monitoring for the next reporting period is provided in **Appendix G**.

5. CONCLUSION

- 5.1.1 This Monthly EM&A Report presents the key findings of the EM&A works during the reporting period from 1st to 30th November 2024 for the construction works for the Project in accordance with the EM&A Manual and the requirements of the EP.
- 5.1.2 Environmental auditing works, including monthly joint site inspection conducted by ET, IE and CEDD, and weekly site inspections of construction works were conducted by the ET during the reporting period. No non-compliance of environmental statutory requirements was identified.
- 5.1.3 During the reporting month, no Project-related exceedances of water quality parameters were recorded. There were also no environmental complaints, notification of summons and successful prosecutions recorded in the reporting month.
- 5.1.4 The ET will keep track on the construction works to confirm compliance if environmental requirements and the proper implementation of all necessary mitigation measures.

FIGURE





APPENDICES

Appendix A Construction Works Programme

CEDD Maintenance Contract for Piers (2022-2027) Task Order No. MW/091/2201 Repair and Enhancement Works in Lung Kwu Chau Jetty TASK ODDED PROCEAMME

TASK ORDER PROGRAMME 識別碼 Task Name 工期 開始時間 完成時間 一月 | 二月 | 三月 | 四月 | 五月 | 六月 | 七月 | 八月 | 九月 | 十月 | 十一月 | 十二月 | 一月 | 二月 | 三月 | 四月 | 五月 | 六月 1/12/2023 11/12/2025 1/12 Task Order Programme - Repair and enhancement works in Lung Kwu 613 days 1/12/2023 1/12/2023 Start Date 0 days 1/12 1/12 23/5/2025 23/5/2025 23/5 • 23/5 Completion Date 0 days 1. Application for Working Permits and Documentation Approval 90 days 1/12/2023 21/3/2024 1/12 21/3/2024 2SS 1.1 Application for MDN 90 days 1/12/2023 1.2 Preparation and submission of materilas method statement, 1/12/2023 5/1/2024 2SS 28 days programme and risk assessment 1.3 Principle Approval from CEDD 14 days 6/1/2024 22/1/2024 6 2. Mobilization and preparation of materials 21/9/2024 25/9/2024 4 days 21/9 25/9 21/9/2024 2.1 Mobilization and preparation of construction materials 4 days 25/9/2024 7,5,31 21/9 25/9 10 3. Construction Works 170 days 26/9/2024 21/4/2025 26/9 3.1 Site set-up and placement of sinkers for vessel berthing 26/9/2024 27/9/2024 9,5 11 2 days 26/9 27/9 12 28/9 30/9 3.2 Erection of silt curtain 2 days 28/9/2024 30/9/2024 11 13 3.3 Phase 1 - Removal of concrete slab 45 days 2/10/2024 23/11/2024 12 23/11 3.4 Phase 1 - Take down and refix the displaced concrete blocks by 25/11/2024 11/12/2024 13 15 days 25/11 11/12 the derrick lighter 3.5 Phase 1 - Erect formwork for Portion 1 and 2 14 days 12/12/2024 30/12/2024 14 12/12 30/12 16 3.6 Phase 1 - Concreting works for Portion 1 and 2 31/12/2024 2/1/2025 15 2 days 3.7 Phase 1 - Erect formwork for Portion 3 & 4 14 days 31/12/2024 16/1/2025 15 31/12 16/1 18 3.8 Phase 1 - Concreting works for Portion 3 & 4 2 days 17/1/2025 18/1/2025 17 19 3.9 Phase 1 - Coring and installation of anchor posts 40 days 12/10/2024 27/11/2024 12SS+10 days 20 3.10 Phase 2 - Removal of concrete slab 35 days 17/1/2025 1/3/2025 19,17 17/1 3/3 11/3 21 3.11 Phase 2 - Take down and refix the displaced concrete blocks by 8 days 3/3/2025 11/3/2025 20 the derrick lighter 22 3.12 Phase 2 - Erect formwork for Portion 5 and 6 8 days 12/3/2025 20/3/2025 21 12/3 20/3 23 3.13 Phase 2 - Concreting works for Portion 5 and 6 21/3/2025 22/3/2025 22 2 days 24 3.14 Phase 2 - Erect formwork for Portion 7 & 8 9 days 21/3/2025 31/3/2025 22 21/3 31/3 25 3.15 Phase 2 - Concreting works for Portion 7 & 8 1/4/2025 2/4/2025 24 2 days 1/4 12/4 3/4/2025 11/4/2025 25 3/4 11/4 26 3.14 Phase 2 - Erect formwork for Portion 9 & 10 8 days 27 3.15 Phase 2 - Concreting works for Portion 9 & 10 12/4/2025 14/4/2025 26 12/4 14/4 2 days 28 3.16 Phase 2 - Coring and installation of anchor posts 35 days 28/11/2024 10/1/2025 19 29 3.17 Demobilization and site clearance 15/4/2025 21/4/2025 28.27 15/4 21/4 6 days 30 4. Water Quality Monitoring 433 days 15/7/2024 11/12/2025 15/7 31 4.1 Baseline W.Q.M and obtaining approval from EPD by ET 58 days 15/7/2024 20/9/2024 5FS+90 days 32 4.2 Impact W.Q.M by ET 173 days 22/4/2025 8/11/2025 31FS+1 day,29 22/4 4.3 Post Project W.Q.M by ET 28 days 10/11/2025 11/12/2025 32 Build King - CRCC Harbour JV 進度 上顯型要徑任務 上顯型進度 外部任務 摘要群組 任務 Rev. 5 on 5 Oct 2024 要徑任務 里程碑 上顯型任務 上顯型里程碑 🔷 分割 期限 ① 專案摘要

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Appendix B Calibration Certificates for Water Quality Monitoring Equipment



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-BD100029

Date of Issue

: 10 October 2024

Page No.

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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:

04 October 2024

Date of Calibration:

09 October 2024

Date of Next Calibration :

08 January 2025

Request No.:

D-BD100029

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 21e 2130 B (Nephelometric Method)

PART D - CALIBRATION RESULT

(1) pH value

Target (pH unit)	Display Reading (pH unit)	Tolerance	Result
4.00	4.10	0.10	Satisfactory
7.42	7.50	0.08	Satisfactory
10.01	10.07	0.06	Satisfactory

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

(2) Temperature

Reading of Ref. thermometer (°C)	Display Reading (°C)	Tolerance	Result
17.0	17.0	0.0	Satisfactory
24.5	24.2	-0.3	Satisfactory
31.5	30.0	-1.5	Satisfactory

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

(3) Salinity

Expected Reading (g/L)	Display Reading (g/L)	Tolerance (%)	Result
10	10.18	1.8	Satisfactory
20	20.78	3.9	Satisfactory
30	30.00	6.0	Satisfactory

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

--- CONTINUED ON NEXT PAGE ---

AUTHORIZED SIGNATORY:

LEE Churt-ning Assistant Manager

REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

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(4) Dissolved oxygen

Expected Reading (mg/L)	Display Reading (mg/L)	Tolerance	Result
8.05	7.76	-0.29	Satisfactory
5.49	5.26	-0.23	Satisfactory
2.54	2.35	-0.19	Satisfactory
1.81	1.35	-0.46	Satisfactory

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

(5) Turbidity

Expected Reading (NTU)	Display Reading (NTU)	Tolerance (a)(%)	Result
0	0.52		Satisfactory
10	10.87	8.7	Satisfactory
20	20.21	1.1	Satisfactory
100	106.28	6.3	Satisfactory
800	801.28	0.2	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 from 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 from relevant international standards.

--- END OF REPORT ---

⁽a) For 0 NTU, Display Reading should be less than 1 NTU

Appendix C1 Water Quality Monitoring Results

Contract No. PW 1/2024 Environmental Monitoring Works for Lung Kwu Chau Jetty Repair Works 3rd Monthly Monitoring Report

	Environmenta	ai ivionitorir	ng vvorks for Lung Kwu C	hau Jetty Repair Works			3° 1/10	ontniy Mo	nitoring Re	port																	
Date	Tide	Station	Weather (Sunny/Cloudy/Rainy)	Sea (Calm/Moderate/Rough)	Sampli	ing Time	Ambient Temperature	Total Water Depth	Level	Sampling Depth		рН	Temp	ater erature °C)	Salini	ity (ppt)		Turbidity (N	TU)		DO mg/L			ituration (%)	Suspen	ided Solids	(mg/L)
(dd-mm- yyyy)			Condition	Condition	Start	Finish		(m)		(m)	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	Value	Average	DA*
			Sunny	Rough	12:25	12:26			ourfood	1	8.07	0.07	26.1	26.1	33.14	22.14	4.03	4.02		5.77	E 76E	E 765	85.9	05.0	5	4.5	
	Mid-Ebb	M2	Sunny	Rough	12:25	12:26	29.5	4.9	surface	1	8.07	8.07	26.1	20.1	33.14	33.14	4.03	4.03	4.308	5.76	5.765	5.765	85.9	85.9	4	4.5	4.75
	Mid-Ebb	1112	Sunny	Rough	12:26	12:27	29.5	4.5	bottom	3.9	8.06	8.06	26	26	33.18	33.18	4.54	4.585	4.300	5.62	5.62	5.62	83.5	83.5	5	5	4.73
			Sunny	Rough	12:26	12:27			DOLLOITI	3.9	8.06	8.06	26	20	33.18	აა.10	4.63	4.363		5.62	5.62	5.62	83.5	63.5	5	<u>.</u>	
			Sunny	Rough	12:02	12:03			surface	1	8	٥	26.1	26.1	33.02	33.02	6.07	6.02		5.82	5.825		86.6	86.65	5	5.5	
			Sunny	Rough	12:02	12:03			Surface	1	8	٥	26.1	20.1	33.02	33.02	5.97	0.02		5.83	3.623	5.783	86.7	80.03	6	J.J	
	Mid-Ebb	C1	Sunny	Rough	12:03	12:04	29.5	7.1	middle	3.55	8	Q	26.1	26.1	33.03	33.03	6.5	6.49	6.688	5.74	5.74	3.703	85.4	85.4	7	7	6.17
	1-lid-Ebb	01	Sunny	Rough	12:03	12:04	25.5	7.1	illidute	3.33	8	Ů	26.1	20.1	33.03	33.03	6.48	0.45	0.000	5.74	3.74		85.4	00.4	7	,	0.17
			Sunny	Rough	12:04	12:05			bottom	6.1	8.01	8.01	26.1	26.1	33.05	33.05	7.5	7.555		5.74	5.74	5.74	85.4	85.4	6	6	
			Sunny	Rough	12:04	12:05			Dottom	0.1	8.01	0.01	26.1	20.1	33.05	00.00	7.61	7.000		5.74	5.74	0.74	85.4	55.4	6		
			Sunny	Rough	12:44	12:45			surface	1	8.08	8.08	26.1	26.1	33.15	33.15	5.66	5.72		5.77	5.765	5.765	85.9	85.8	10	9.5	
	Mid-Ebb	C2	Sunny	Rough	12:44	12:45	29.5	4.8 surface		_	8.08		26.1		33.15		5.78		7.075	5.76			85.7		9		9.5
			Sunny	Rough	12:45	12:46			4.8 bottom	3.8	8.07	8.07	26.1	26.1	33.2	33.2	8.48	8.43		5.59	5.59	5.59	83.2	83.2	10	9.5	
1/11/2024			Sunny	Rough	12:45	12:46					8.07		26.1		33.2		8.38			5.59			83.2		9		
			Sunny	Moderate	18:17	18:18			surface	1	8.18	8.18	26.2	26.2	32.65	32.65	1.59	1.605		5.95	5.95	5.95	88.4	88.4	4	4	
	Mid-Flood	M2	Sunny	Moderate	18:17	18:18	30.1	4.6			8.18		26.2		32.65		1.62		1.63	5.95			88.4		4		4
			Sunny	Moderate	18:18	18:19			bottom	3.6	8.16	8.16	26.2	26.2	32.66	32.66	1.66	1.655		5.92	5.92	5.92	88.1	88.1	4	4	
			Sunny	Moderate	18:18	18:19					8.16		26.2		32.66		1.65			5.92			88.1		4		
			Sunny	Moderate	18:03	18:04			surface	1	8.18	8.18	26.2	26.2	32.71	32.71	1.73	1.735		5.94	5.935		88.3	88.25	5	4.5	
			Sunny	Moderate	18:03	18:04					8.18		26.2		32.71		1.74			5.93		5.888	88.2		4		
	Mid-Flood	C1	Sunny	Moderate	18:04	18:05	30.1	7.5	middle	3.75	8.16	8.16	26.1	26.1	32.71	32.71	2.07	2.055	2.107	5.84	5.84		86.6	86.6	3	2.5	3.83
			Sunny	Moderate	18:04	18:05					8.16		26.1		32.71		2.04			5.84			86.6		2		
			Sunny	Moderate	18:05	18:06			bottom	6.5	8.16	8.16	26	26	32.77	32.77	2.55	2.53		5.78	5.78	5.78	85.8	85.8	4	4.5	
			Sunny	Moderate	18:05	18:06					8.16		26		32.77		2.51			5.78			85.8		5		
			Sunny	Moderate	18:44	18:45			surface	1	8.16	8.155	26.4	26.4	32.88	32.88	1.2	1.19		5.86	5.855	5.855	87.5	87.45	3	3	
	Mid-Flood	C2	Sunny	Moderate	18:44	18:45	30.1	4.7	surface 4.7	_	8.15		26.4		32.88		1.18		1.668	5.85			87.4		3		4
			Sunny	Moderate	18:45	18:46			4.7 bottom	3.7	8.14	8.14	26.4	26.4	32.96	32.96	2.16	2.145		5.74	5.74	5.74	85.8	85.8	5	5	
			Sunny	Moderate	18:45	18:46			bottom	5.,	8.14	5.14	26.4	23.7	32.96	52.00	2.13	2.240		5.74	5.74	3.74	85.8	55.0	5		

Contract No. PW 1/2024 Environmental Monitoring Works for Lung Kwu Chau Jetty Repair Works 3rd Monthly Monitoring Report

	Environmenta	ai ivionitorii	ng Works for Lung Kwu C	nau Jetty Repair Works	ir Works 3 rd Monthly Monitoring Report																						
Date	Tide	Station	Weather (Sunny/Cloudy/Rainy)	Sea (Calm/Moderate/Rough)	Sampl	ing Time	Ambient Temperature	Total Water Depth	Level	Sampling Depth		рН	Temp	ater erature °C)	Salini	ity (ppt)		Turbidity (N	Γ U)		DO mg/L			ituration (%)	Suspen	nded Solids	s (mg/L)
(dd-mm- yyyy)			Condition	Condition	Start	Finish		(m)		(m)	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	Value	Average	DA*
			Sunny	Moderate	14:29	14:30			ourfood	1	8.09	8.085	26	26	32.67	32.67	5.41	5.36		5.49	5.495	5.495	81.4	81.5	9	8	
	Mid-Ebb	M2	Sunny	Moderate	14:29	14:30	28.9	5.2	surface	1	8.08	8.085	26	26	32.67	32.67	5.31	5.36	8.158	5.5	5.495	5.495	81.6	81.5	7	8	12.5
	Mid-EDD	I*IZ	Sunny	Moderate	14:28	14:29	20.9	5.2	bottom	4.2	8.2	8.17	25.9	25.9	33.01	33.01	10.75	10.955	0.130	5.48	5.475	5.475	81.2	81.1	18	17	12.5
			Sunny	Moderate	14:28	14:29			DOLLOITI	4.2	8.14	0.17	25.9	25.9	33.01	33.01	11.16	10.955		5.47	5.475	5.475	81	01.1	16	1/	
			Sunny	Moderate	14:52	14:53			surface	1	8.11	8.11	26.2	26.2	32.81	32.775	3.08	3.05		5.62	5.62		83.6	83.65	4	4.5	
			Sunny	Moderate	14:52	14:53	28.9		Suriace	1	8.11	0.11	26.2	20.2	32.74	32.773	3.02	3.05		5.62	5.02	5.583	83.7	63.03	5	4.5	
	Mid-Ebb	C1	Sunny	Moderate	14:51	14:52	20.9	8.1	middle	4.05	8.11	8.11	26.1	26.15	33.09	33.03	3.92	3.585	4.165	5.52	5.545	5.565	82	82.5	6	5.5	6
	1-lid-EDD	01	Sunny	Moderate	14:51	14:52		0.1	muute	4.03	8.11	0.11	26.2	20.13	32.97	33.03	3.25	3.303	4.100	5.57	3.343		83	02.0	5	0.0	
			Sunny	Moderate	14:50	14:51			bottom	7.1	8.11	8.11	25.9	25.9	33.38	33.375	5.9	5.86		5.49	5.485	5.485	81.6	81.5	8	8	
			Sunny	Moderate	14:50	14:51	28.9		Dottom	7.1	8.11	0.11	25.9	20.0	33.37	33.373	5.82	3.00		5.48	3.403	3.403	81.4	01.5	8		
			Sunny	Moderate	14:07	14:08	20.5		surface	1	8.1	8.1	26	26.05	32.99	32.975	4.6	4.37		5.64	5.665	5.665	83.8	84.15	6	6	
	Mid-Ebb	C2	Sunny	Moderate	14:07	14:08	5.5	Juniace	_	8.1	0.1	26.1	20.00	32.96	02.070	4.14	4.07	5.178	5.69	0.000	0.000	84.5	04.10	6		6.75	
	The Ess	02	Sunny	Moderate	14:06	14:07			bottom	4.5	8.14	8.135	26	26	33.18	33.18	5.96	5.985	0.170	5.63	5.63	5.63	83.7	83.65	8	7.5	0.70
4/11/2024			Sunny	Moderate	14:06	14:07	28.9		20110111		8.13	0.100	26		33.18	00.20	6.01	0.000		5.63	0.00	0.00	83.6	00.00	7		
471172024			Sunny	Moderate	9:23	9:24	20.0		surface	1	8.02	8.02	26.1	26.1	32.06	32.06	1.55	1.555		5.68	5.685	5.685	84.1	84.1	2	2.5	
	Mid-Flood	M2	Sunny	Moderate	9:23	9:24		5.8		_	8.02	5.02	26.1		32.06	02.00	1.56		1.988	5.69	0.000	0.000	84.1	02	3		3.25
			Sunny	Moderate	9:22	9:23			bottom	4.8	8.03	8.03	26	26	32.39	32.39	2.36	2.42		5.62	5.62	5.62	83.1	83.05	4	4	
			Sunny	Moderate	9:22	9:23	28.9		20110111		8.03	0.00	26		32.39	02.00	2.48			5.62	0.02	0.02	83		4	· 	
			Sunny	Moderate	9:43	9:44			surface	1	8.04	8.04	25.9	25.9	32.19	32.18	2.24	2.05		5.54	5.55		81.8	81.95	3	3	
			Sunny	Moderate	9:43	9:44				_	8.04		25.9		32.17		1.86			5.56		5.51	82.1		3		
	Mid-Flood	C1	Sunny	Moderate	9:42	9:43		7.6	middle	3.8	8.04	8.035	25.9	25.9	32.46	32.46	5.02	4.925	3.93	5.47	5.47		80.9	80.9	7	7	5.83
			Sunny	Moderate	9:42	9:43	28.9				8.03		25.9		32.46		4.83			5.47			80.9		7		
			Sunny	Moderate	9:41	9:42	20.0	bottom	bottom	6.6	8.1	8.09	25.9	25.9	32.53	32.53	4.84	4.815		5.48	5.48	5.48	81.1	81.05	8	7.5	
			Sunny	Moderate	9:41	9:42			Dottom	0.0	8.08	0.00	25.9	20.0	32.53	02.00	4.79	4.010		5.48	0.40	0.40	81	01.00	7		
			Sunny	Moderate	9:06	9:07			surface	1	7.99	7.99	25.9	25.9	32.99	32.98	6.85	6.84		5.5	5.5	5.5	81.5	81.5	7	7.5	
	Mid-Flood	C2	Sunny	Moderate	9:06	9:07	28.9	5.4	surface 5.4	-	7.99	7.00	25.9	25.0	32.97	02.00	6.83	0.04	6.933	5.5	0.0	0.0	81.5	01.0	8	,.0	8.25
	7 114 7 1004	<u> </u>	Sunny	Moderate	9:05	9:06	25.5	5.4 botto	bottom	4.4	7.99	7.99	25.8	25.8	33.05	33.05	7.07	7.025	0.000	5.51	5.505	5.505	81.5	81.5	9	9	0.20
			Sunny	Moderate	9:05	9:06			Dottom		7.99	7.00	25.8	20.0	33.05	33.00	6.98	7.020		5.5	0.500	0.500	81.5	01.0	9		

Contract No. PW 1/2024
Environmental Monitoring Works for Lung Kwu Chau Jetty Repair Works 3rd Monthly Monitorina Report

	Environmenta	al Monitorii	ng Works for Lung Kwu C	hau Jetty Repair Works			3º Mc	onthly Mo	nitoring Re	port																	
Date	Tide	Station	Weather (Sunny/Cloudy/Rainy)	Sea (Calm/Moderate/Rough)	Sampli	ing Time	Ambient Temperature	(m) (m)			рН	Temp	ater erature °C)	Salin	ity (ppt)		Turbidity (N	ги)		DO mg/L			turation %)	Suspen	ided Solids	(mg/L)	
(dd-mm- yyyy)			Condition	Condition	Start	Finish	•	-		(m)	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	Value	Average	DA*
			Sunny	Moderate	10:30	10:31			ourfo o o	4	8.04	8.04	25.8	25.8	31.99	31.99	2.35	2.345		5.81	F 04	F 01	85.4	05.4	4		
	Mid-Ebb	M2	Sunny	Moderate	10:30	10:31	25.1	5.5	surface	1	8.04	8.04	25.8	25.8	31.99	31.99	2.34	2.345	2.18	5.81	5.81	5.81	85.4	85.4	4	4	4.75
	MIIU-EDD	IMZ	Sunny	Moderate	10:29	10:30	25.1	5.5	bottom	4.5	8.08	8.08	25.7	25.7	32.01	32.01	2.01	2.015	2.10	5.93	5.935	5.935	87.2	87.25	5	5.5	4.75
			Sunny	Moderate	10:29	10:30			DOLLOITI	4.5	8.08	0.00	25.7	25.7	32.01	32.01	2.02	2.015		5.94	5.935	0.930	87.3	67.23	6	5.5	
			Sunny	Moderate	10:42	10:43			surface	1	8.04	8.04	25.8	25.8	32.01	32.01	3.53	3.515		5.8	5.795		85.1	85.15	5	5.5	
			Sunny	Moderate	10:42	10:43			Surface	1	8.04	0.04	25.8	25.0	32.01	32.01	3.5	3.313		5.79	3.793	5.76	85.2	65.15	6	J.J	
	Mid-Ebb	C1	Sunny	Moderate	10:41	10:42	25.1	6.6	middle	3.3	8.04	8.04	25.8	25.8	32.06	32.06	2.03	2.03	3.841	5.73	5.725	3.70	84.2	84.2	6	5.5	5.83
	I-liu-Lbb	O1	Sunny	Moderate	10:41	10:42	25.1	0.0	inidate	3.3	8.04	0.04	25.8	20.0	32.06	32.00	2.03	2.00	3.041	5.72	3.723		84.2	04.2	5	0.0	3.03
			Sunny	Moderate	10:40	10:41			bottom	5.6	8.05	8.05	25.8	25.8	32.26	32.26	6.01	5.98		5.66	5.665	5.665	83.5	83.5	7	6.5	
			Sunny	Moderate	10:40	10:41			Dottom	0.0	8.05	0.00	25.8	20.0	32.26	02.20	5.95	0.00		5.67	0.000	0.000	83.5	00.0	6		
			Sunny	Moderate	10:11	10;12	-	surface	1	7.97	7.97	25.8	25.8	32.18	32.18	2.21	2.21		5.68	5.68	5.68	83.7	83.7	7	7		
	Mid-Ebb	C2	Sunny	Moderate	10:11	10;12	25.1	4.5	- Curiuss	_	7.97	7.07	25.8		32.18	02.10	2.21		2.293	5.68	0.00	0.00	83.7		7		10.25
	220	02	Sunny	Moderate	10:10	10:11	2012	4.5 bottom	3.5	7.97	7.97	25.8	25.8	32.21	32.21	2.39	2.375	_,	5.68	5.68	5.68	83.7	83.7	14	13.5	10.20	
6/11/2024			Sunny	Moderate	10:10	10:11					7.97		25.8		32.21		2.36			5.68			83.7		13		
0,11,202			Sunny	Moderate	15:20	15:21			surface	1	8.07	8.07	25.9	25.9	32.15	32.15	2.33	2.33		5.74	5.74	5.74	84.7	84.7	3	3	
	Mid-Flood	M2	Sunny	Moderate	15:20	15:21	28.1	5.3		_	8.07		25.9		32.15		2.33		2.378	5.74			84.7		3		3.25
			Sunny	Moderate	15:19	15:20			bottom	4.3	8.07	8.07	25.9	25.9	32.21	32.21	2.43	2.425		5.75	5.755	5.755	84.9	84.9	4	3.5	
			Sunny	Moderate	15:19	15:20			20110111		8.07	5.67	25.9		32.21	02.22	2.42			5.76	0.700	0.700	84.9		3		
			Sunny	Moderate	15:42	15:43			surface	1	8.07	8.07	26	26	32.34	32.34	3.07	3.065		5.7	5.7		84.3	84.3	4	4.5	
			Sunny	Moderate	15:42	15:43				_	8.07	0.07	26		32.34	02.0	3.06	0.000		5.7	<i></i>	5.68	84.3		5		
	Mid-Flood	C1	Sunny	Moderate	15:41	15:42	28.1	7.2	middle	3.6	8.07	8.07	25.9	25.9	32.36	32.36	3.06	3.055	3.022	5.66	5.66	0.00	83.6	83.6	4	4.5	4.167
		01	Sunny	Moderate	15:41	15:42	2012			0.0	8.07	0.07	25.9		32.36	02.00	3.05	0.000	0.022	5.66	0.00		83.6		5		
			Sunny	Moderate	15:40	15:41			bottom	6.2	8.07	8.07	25.9	25.9	32.38	32.38	2.92	2.945		5.67	5.67	5.67	83.6	83.6	4	3.5	
			Sunny	Moderate	15:40	15:41			Dottom	0.2	8.07	0.07	25.9	20.0	32.38	02.00	2.97	2.040		5.67	0.07	0.07	83.6	55.5	3		
			Sunny	Moderate	15:03	15:04			5.3 surface bottom	1	8.11	8.11	26	26	32.66	32.66	4.12	4.12		5.78	5.78	5.78	85.6	85.6	4	3.5	
	Mid-Flood	C2	Sunny	Moderate	15:03	15:04	28.1	5.3		-	8.11	0.11	26	20	32.66	02.00	4.12	7.12	5.555	5.78	5.75	0.70	85.6	00.0	3	0.0	3.25
		52	Sunny	Moderate	15:02	15:03	25.1	0.0		4.3	8.13	8.13	25.8	25.8	32.93	32.93	7	6.99	0.000	5.84	5.845	5.845	86.5	86.5	3	3	0.20
			Sunny	Moderate	15:02	15:03					8.13	5.10	25.8	_5.0	32.93	52.00	6.98	5.50		5.85	3.340	3.340	86.5	55.0	3		

Contract No. PW 1/2024
Environmental Monitoring Works for Lung Kwu Chau Jetty Repair Works 3rd Monthly Monitorina Report

	Environmenta	al Monitorii	ng Works for Lung Kwu C	hau Jetty Repair Works			3º Mc	onthly Mo	nitoring Re	port																	
Date	Tide	Station	Weather (Sunny/Cloudy/Rainy)	Sea (Calm/Moderate/Rough)	Sampl	ing Time	Ambient Temperature	Total Water Depth (m) Sampling Depth (m) Sampling (m)			pH	Temp	ater erature °C)	Salin	ity (ppt)		Turbidity (N	ΓU)		DO mg/L			nturation (%)	Suspen	ided Solids	(mg/L)	
(dd-mm- yyyy)			Condition	Condition	Start	Finish	•	-		(m)	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	Value	Average	DA*
			Sunny	Moderate	7:10	7:10			ofo.o.o	1	8.13	8.155	25	25	32.07	32.055	8.27	0.00		6	F 00F	5.985	87.1	86.9	10	10	
	Mid-Ebb	M2	Sunny	Moderate	7:10	7:10	21	5.2	surface	1	8.18	8.155	25	25	32.04	32.055	8.18	8.23	7.583	5.97	5.985	5.985	86.7	86.9	10	10	10.25
	MIIU-EDD	IMZ	Sunny	Moderate	7:15	7:15	21	5.2	bottom	4.2	8.1	8.095	25	25	31.95	31.945	7.03	6.94	7.303	5.87	5.87	5.87	85.2	85.15	10	10.5	10.25
			Sunny	Moderate	7:15	7:15			DOLLOITI	4.2	8.09	8.093	25	25	31.94	31.945	6.85	0.94		5.87	5.67	3.67	85.1	65.15	11	10.5	
			Sunny	Moderate	7:20	7:20			surface	1	8.08	8.08	25	25	31.82	31.82	4.64	4.56		5.75	5.755		83.4	83.5	8	8.5	
			Sunny	Moderate	7:20	7:20			Surface	1	8.08	0.00	25	23	31.82	31.02	4.48	4.50		5.76	3.733	5.72	83.6	05.5	9	0.0	
	Mid-Ebb	C1	Sunny	Moderate	7:23	7:23	21	6.3	middle	3.15	8.08	8.08	25	25.05	31.84	31.845	4.91	4.995	7.14	5.66	5.685	3.72	82.2	82.55	8	8	9.333
	I-IIG-EDD	O1	Sunny	Moderate	7:23	7:23	21	0.0	illidate	3.13	8.08	0.00	25.1	25.05	31.85	31.043	5.08	4.555	7.14	5.71	3.003		82.9	02.00	8		3.333
			Sunny	Moderate	7:25	7:25			bottom	5.3	8.11	8.115	25.6	25.6	32.68	32.68	12.01	11.87		5.79	5.8	5.8	85.3	85.45	11	11.5	
			Sunny	Moderate	7:25	7:25			Dottom	0.0	8.12	0.110	25.6	20.0	32.68	02.00	11.72	11.07		5.81	0.0	0.0	85.6	00.40	12		
			Sunny	Moderate	7:01	7:01			surface	1	8.01	8.01	24.9	24.9	32.6	32.6	4.87	5.04		5.75	5.755	5.755	83.6	83.6	6	7	
	Mid-Ebb	C2	Sunny	Moderate	7:01	7:01	21	4.4	54.1455	_	8.01	0.02	24.9		32.6	52.5	5.2	0.0.	5.075	5.76	0.700	0.700	83.6	55.5	8		7.25
	220	02	Sunny	Moderate	7:03	7:03		4.4 bottom	3.4	8	8	24.9	24.9	32.64	32.645	5.16	5.12	0.070	5.8	5.8	5.8	84.3	84.3	8	7.5	7.20	
8/11/2024			Sunny	Moderate	7:03	7:03					8		24.9		32.65		5.07			5.8			84.3		7		
0,11,202			Sunny	Moderate	13:15	13:15			surface	1	8.14	8.14	25.3	25.3	32.06	32.06	2.33	2.33		6.04	6.04	6.04	88.3	88.3	3	3.5	
	Mid-Flood	M2	Sunny	Moderate	13:15	13:15	24	4.9		_	8.14		25.3		32.06		2.33		3.235	6.04			88.3		4		4
			Sunny	Moderate	13:20	13:20			bottom	3.9	8.22	8.22	25.3	25.3	32.11	32.11	4.14	4.14		6.07	6.07	6.07	88.7	88.7	4	4.5	
			Sunny	Moderate	13:20	13:20			20110111		8.22	0.22	25.3		32.11	02.11	4.14			6.07	0.07	0.07	88.7		5		
			Sunny	Moderate	13:10	13:10			surface	1	8.13	8.13	25.4	25.4	32.17	32.17	1.7	1.68		5.82	5.825		85.2	85.25	4	4	
			Sunny	Moderate	13:10	13:10				_	8.13		25.4		32.17		1.66			5.83		5.81	85.3		4]
	Mid-Flood	C1	Sunny	Moderate	13:05	13:05	24	6.8	middle	3.4	8.13	8.13	25.4	25.4	32.22	32.22	1.8	1.82	1.867	5.79	5.795	0.02	84.7	84.75	3	3.5	3.833
		01	Sunny	Moderate	13:05	13:05		0.0		511	8.13	0.10	25.4		32.22	02.22	1.83	1.02	2.007	5.8	0.700		84.8	0 117 0	4		
			Sunny	Moderate	13:00	13:00			bottom	5.8	8.14	8.135	25.4	25.4	32.31	32.315	2.15	2.11		5.86	5.84	5.84	85.8	85.55	4	4	
			Sunny	Moderate	13:00	13:00			Dottom	0.0	8.13	0.100	25.4	20.4	32.32	02.010	2.06	2.11		5.82	0.04	0.04	85.3	00.00	4		
			Sunny	Moderate	13:30	13:30			surface	1	8.11	8.11	25.4	25.4	32.21	32.175	1.75	1.69		5.85	5.86	5.86	85.6	85.75	3	3	
	Mid-Flood	C2	Sunny	Moderate	13:30	13:30	24	46	surface	-	8.11	0.11	25.4	20.4	32.14	52.175	1.63	1.05	2.138	5.87	3.00	3.00	85.9	03.73	3		3.25
	i ilu-i toou	02	Sunny	Moderate	13:30	13:30	24	4.0	4.6 bottom	3.6	8.14	8.14	25.4	25.4	32.33	32.33	2.6	2.59	2.100	5.9	5.895	5.895	86.4	86.3	3	3.5	0.20
			Sunny	Moderate	13:30	13:30			bottom	0.0	8.14	0.14	25.4	20.4	32.33	02.00	2.57	2.00		5.89	0.000	0.000	86.2	55.5	4	0.0	

Contract No. PW 1/2024
Environmental Monitoring Works for Lung Kwu Chau Jetty Repair Works 3rd Monthly Monitorina Report

Environmental Monitoring Works for Lung Kwu Chau Jetty Repair Works 3 rd Monthly Monitoring Report																											
Date	Tide	Station	Weather (Sunny/Cloudy/Rainy)	Sea (Calm/Moderate/Rough)	Sampling Time		Ambient Temperature	Total Water Depth	Level	Sampling Depth	рН		Water Temperature (°C)		Salinity (ppt)		Turbidity (NTU)			DO mg/L			DO Saturation (%)		Suspended Solids (mg/L)		
(dd-mm- yyyy)			Condition	Condition	Start	Finish	- Comparation	(m)		(m)	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	Value	Average	DA*
11/11/2024	Mid-Ebb	M2	Sunny	Moderate	9:00	9:00		5.2	surface	1	8.06	8.06	24.9	24.9	30.75	2.17 6.08	6.08	0.00	6.08	87.5	87.45	4	4.5				
			Sunny	Moderate	9:00	9:00	25				8.06	8.06	24.9	24.9	30.77	30.76	2.33	2.25	2.468	6.08	6.08	0.00	87.4	87.45	5	4.5	4.75
			Sunny	Moderate	9:05	9:05	25			4.2	8.07	8.07	24.9	24.9	31.26	31.26	2.61	2 605	685	6.1	6.105	6.105	88.1	88.15	5	5	4.75
			Sunny	Moderate	9:05	9:05					8.07	8.07	24.9	24.9	31.26	31.26	2.76	2.005		6.11	6.105	6.105	88.2	00.15		5	
	Mid-Ebb	C1	Sunny	Moderate	9:10	.0 9:10		6.6	surface	1	8.07	8.07	25 25	25	31.08	30.97	1.75	1.575	_	5.85	5.865	865	84.6	84.75	4	3.5	
			Sunny	Moderate	9:10	9:10					8.07	6.07		25	30.85	30.97	1.4			5.88	5.665	5.815	84.9	64.75	3]
			Sunny	Moderate	9:15	9:15	25		middle	3.3	8.07	8.07	25.2	25.2	32.22	32.23	3.46	3.375		5.77	5.765	5.615	84.1	84.05	3 5		4.833
			Sunny	Moderate	9:15	9:15	25				8.07	0.07	25.2	25.2	32.24	4	3.29	3.3/5		5.76	5.765		84	64.05		4	4.633
			Sunny	Moderate	9:20	9:20			bottom	5.6	8.09	8.09	25.2	25.2	32.3	32.3	5	4.96		5.84	E 025	5.835 5.835	85.2	85.1	7	7	
			Sunny	Moderate	9:20	9:20					8.09		25.2	25.2	32.29	32.3	4.92			5.83	5.655		85	05.1	7		
	Mid-Ebb	C2	Sunny	Moderate	9:25	9:25			surface	1	7.96	7.96	25.1	25.1	31.83	31.83	2.84	2.04	2.84 2.648	5.85	5.85	5.85	84.9	84.9	5	5	
			Sunny	Moderate	9:25	9:25	25	4.4			7.96	7.90	25.1	25.1	31.83	31.03	2.84	2.04		5.85	5.65		84.9	64.9	5	<u>.</u>	- 6
			Sunny	Moderate	9:30	9:30	25	4.4		3.4	7.95	7.95	25.1	25.1	31.81	31.81	2.5	2.455	2.046	5.86	5.86	5.86	85.1	85.1	6	7	
			Sunny	Moderate	9:30	9:30					7.95	7.95	25.1	25.1	31.8	31.01	2.41	2.455		5.86	3.80		85.1	65.1	8		
	Mid-Flood	M2	Sunny	Moderate	15:00	15:00		5.4	surface	1	8.12	8.12	25.4	25.4	31.28	31.28	4.1	4.125		6.08	6.08	6.08	88.4	88.4	7	7.5	
			Sunny	Moderate	15:00	15:00	25				8.12	0.12	25.4	25.4	31.28	31.20	4.15	4.125	3.383	6.08	0.00	0.00	88.4		8		6
			Sunny	Moderate	15:05	15:05	25		bottom	4.4	8.15	8.15	25.3	25.3	31.67	31.67	2.67	2.64	3.363	5.98	5.985	5.985	87.1	87.15	5	4.5	
			Sunny	Moderate	15:05	15:05					8.15	0.13	25.3	25.5	31.66	6 31.07	2.61	2.04		5.99	3.963		87.2	67.15		0	
	Mid-Flood	C1	Sunny	Moderate	15:10	15:10 15:10		6.8	surface	e 1	8.11	8.11	25.3	25.3	31.83	31.83	3.21	3.19		5.79	5.0	5.8 5.71	84.5	84.65	6	6	
			Sunny	Moderate	15:10	15:10					8.11	0.11	25.3		31.83	31.03	3.17	3.19		5.81	3.6		84.8	04.03	6		
			Sunny	Moderate	15:15	15:15	25		middle	3.4	8.1	8.1	25.3	25.3	32.45	32.45	5.53	5.425	4.905	5.62	5.62		82.3	82.25	7	6.5	6.5
			Sunny	Moderate	15:15	15:15	25	0.0			8.1	0.1	25.3	25.5	32.45	32.43	5.32	3.423		5.62	3.02		82.2	02.23	6		0.5
			Sunny	Moderate	15:20	15:20			bottom	5.8	8.14	8.135	25.3	25.3	32.46	32.46	5.98	6.1	⊢	5.72	5.71	5.71	83.7	83.55	7	7	
			Sunny	Moderate	15:20	15:20					8.13	0.133	25.3		32.46	32.40	6.22			5.7	5.71	5.71	83.4				
	Mid-Flood	C2	Sunny	Moderate	15:25	15:25		4.3	surface	1	8.11	8.105	25.4	25.35	31.83	31.86	1.64	1.64		5.88	5.84	5.84	85.8	85.2	3	3	3.75
			Sunny	Moderate	15:25	15:25	25				8.1	6.105	25.3	25.55	31.88		1.94	1.79	2.488	5.8	3.64		84.6	65.2	3	<u> </u>	
			Sunny	Moderate	15:30	15:30			bottom	3.3	8.18	8.165	25.3	25.3	32.35	35 32.36	2.97	3.185	2.400	5.73	5.725	5.725	83.8	83.7	5	4.5	3.70
			Sunny	Moderate	15:30	15:30					8.15	0.103	25.3	20.0	32.36	02.00	3.4	3.4		5.72	5.725		83.6	00.7	4	4.0	

	Environmenta	al Monitorii	ng Works for Lung Kwu C	hau Jetty Repair Works			3 rd Mc	onthly Mo	nitoring Re	port																	
Date	Tide	Station	Weather (Sunny/Cloudy/Rainy)	Sea (Calm/Moderate/Rough)	Sampl	ing Time	Ambient Temperature	Total Water Depth	Level	Sampling Depth		pH	Temp	ater erature °C)	Salin	ity (ppt)		Turbidity (N	ги)		DO mg/L			aturation (%)	Susper	nded Solids	s (mg/L)
(dd-mm- yyyy)			Condition	Condition	Start	Finish	•	(m)		(m)	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	Value	Average	DA*
			Rainy	Moderate	11:31	11:32			ourfo o o	4	8.04	8.04	25.5	25.5	31.91	21.01	5.47	5.55		5.65	F 055	F 0FF	82.7	00.0	10	11	
	Mid-Ebb	M2	Rainy	Moderate	11:31	11:32	24.4	5.5	surface	1	8.04	8.04	25.5	25.5	31.91	31.91	5.63	5.55	5.84	5.66	5.655	5.655	82.9	82.8	12	11	10.25
	MIIU-EDD	IMZ	Rainy	Moderate	11:30	11:31	24.4	5.5	bottom	4.5	8.04	8.04	25.5	25.5	31.97	31.98	6.12	6.13	5.64	5.62	5.62	5.62	82.3	82.25	9	9.5	10.25
			Rainy	Moderate	11:30	11:31			DOLLOITI	4.5	8.04	6.04	25.5	25.5	31.98	31.96	6.14	0.13		5.62	5.02	5.02	82.2	82.23	10	9.5	
			Rainy	Moderate	11:51	11:52			surface	1	8.05	8.05	25.5	25.5	31.59	31.59	3.51	3.505		5.72	5.72		83.6	83.6	7	6.5	
			Rainy	Moderate	11:50	11:51			Surface	1	8.05	8.03	25.5	25.5	31.59	31.39	3.5	3.303		5.72	3.72	5.725	83.6	83.0	6	0.5	
	Mid-Ebb	C1	Rainy	Moderate	11:49	11:50	24.4	7.2	middle	3.6	8.05	8.05	25.5	25.5	31.59	31.59	3.57	3.565	3.707	5.73	5.73	3.723	83.8	83.8	8	8.5	9.167
	THE EDD	01	Rainy	Moderate	11:49	11:50	24.4	7.2	muute	0.0	8.05	0.00	25.5	20.0	31.59	01.00	3.56	0.000	0.707	5.73	0.70		83.8	00.0	9	0.0	3.107
			Rainy	Moderate	11:48	11:49			bottom	6.2	8.06	8.06	25.5	25.5	31.62	31.62	4.05	4.05		5.8	5.8	5.8	84.7	84.7	13	12.5	
			Rainy	Moderate	11:48	11:49			20110111	0.2	8.06		25.5		31.62	02.02	4.05			5.8	0.0	0.0	84.7	0	12		
			Rainy	Moderate	11:16	11:17			surface	1	7.99	7.99	25.4	25.4	32.15	32.15	8.22	8.32		5.69	5.69	5.69	83.2	83.2	17	15	
	Mid-Ebb	C2	Rainy	Moderate	11:16	11:17	24.4	5.1		_	7.99		25.4		32.15		8.42		12.17	5.69			83.2		13	<u> </u>	15.25
			Rainy	Moderate	11:15	11:16			bottom	4.1	7.97	7.97	25.4	25.4	32.31	32.32	15.88	16.025		5.7	5.7	5.7	83.4	83.4	12	15.5	
15/11/2024			Rainy	Moderate	11:15	11:16					7.97		25.4		32.32		16.17			5.7			83.4		19	<u> </u>	
			Rainy	Moderate	17:19	17:20			surface	1	8.06	8.06	25.5	25.5	30.73	30.73	2.76	2.755		5.83	5.83	5.83	84.7	84.7	5	5	
	Mid-Flood	M2	Rainy	Moderate	17:19	17:20	25.5	4.3			8.06		25.5		30.73		2.75		3.15	5.83			84.7		5	<u> </u>	7.25
			Rainy	Moderate	17:18	17:19			bottom	3.3	8.06	8.06	25.5	25.5	30.95	30.95	3.58	3.545		5.82	5.82	5.82	84.7	84.7	10	9.5	
			Rainy	Moderate	17:18	17:19					8.06		25.5		30.94		3.51			5.82			84.7		9	<u> </u>	
			Rainy	Moderate	17:05	17:06			surface	1	8.05	8.05	25.5	25.5	31.02	31.02	3.23	3.255		5.65	5.65		82.3	82.3	6	6.5	
			Rainy	Moderate	17:05	17:06					8.05		25.5		31.01		3.28			5.65		5.613	82.3		7	<u> </u>	
	Mid-Flood	C1	Rainy	Moderate	17:04	17:05	25.5	6.3	middle	3.15	8.05	8.05	25.5	25.5	31.23	31.23	3.49	3.49	3.892	5.58	5.575		81.3	81.3	7	6	7.5
			Rainy	Moderate	17:04	17:05					8.05		25.5		31.23		3.49			5.57			81.3		5	<u> </u>	
			Rainy	Moderate	17:03	17:04			bottom	5.3	8.05	8.05	25.6	25.6	31.55	31.55	4.96	4.93		5.54	5.545	5.545	81	81.05	10	10	
			Rainy	Moderate	17:03	17:04			20110111		8.05		25.6		31.55	02.00	4.9			5.55	0.0.0	0.0.0	81.1	01.00	10	L	
			Rainy	Moderate	17:41	17:42			surface	1	8.06	8.06	25.5	25.5	31.07	31.06	2.86	2.85		5.72	5.72	5.72	83.3	83.3	5	4.5	
	Mid-Flood	C2	Rainy	Moderate	17:41	17:42	25.5	4.7	5417400	_	8.06	5.00	25.5	20.0	31.05	01.00	2.84	2.50	3.418	5.72	5.72	0.72	83.3	55.0	4	7.0	5.75
		52	Rainy	Moderate	17:40	17:41	25.5	3.7	bottom	3.7	8.06	8.06	25.5	25.5	31.41	31.41	3.99	3.985	J.→10	5.66	5.66	5.66	82.6	82.6	8	7	0.70
			Rainy	Moderate	17:40	17:41			20110111	5.,	8.06	5.00	25.5	_5.0	31.41	J2.72	3.98	5.566		5.66	5.00	0.00	82.6	52.0	6		

	Environment	ai Monitorii	ng Works for Lung Kwu C	hau Jetty Repair Works			3° M	onthly Mo	nitoring Re	port																	
Date	Tide	Station	Weather (Sunny/Cloudy/Rainy)	Sea (Calm/Moderate/Rough)	Sampl	ing Time	Ambient Temperature	Total Water Depth	Level	Sampling Depth		рН	Temp	ater erature °C)	Salini	ity (ppt)		Turbidity (N	ΓU)		DO mg/L			ituration (%)	Suspen	nded Solids	(mg/L)
(dd-mm- yyyy)			Condition	Condition	Start	Finish	remperature	(m)		(m)	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	Value	Average	DA*
			Sunny	Rough	9:46	9:47			ourfood	1	8.04	8.035	25.7	25.7	30.14	30.14	4.07	4.095		5.83	5.825	5.825	84.7	84.65	6	6	
	Mid-Ebb	M2	Sunny	Rough	9:46	9:47	26.7	5.2	surface	1	8.03	0.035	25.7	25.7	30.14	30.14	4.12	4.095	9.303	5.82	5.625	5.625	84.6	04.05	6	0	13.25
	Mu-Lbb	1112	Sunny	Rough	9:45	9:46	20.7	3.2	bottom	4.2	7.98	7.98	25.6	25.6	30.27	30.27	14.56	14.51	3.303	5.53	5.525	5.525	80.3	80.3	19	20.5	13.23
			Sunny	Rough	9:45	9:46			DOLLOITI	4.2	7.98	7.90	25.6	25.6	30.27	30.27	14.46	14.51		5.52	5.525	5.525	80.3	60.3	22	20.5	
			Sunny	Rough	10:04	10:05			surface	1	7.99	7.99	25.6	25.6	30.26	30.255	7.53	7.495		5.62	5.615		81.6	81.55	8	8.5	
			Sunny	Rough	10:04	10:05			Surface	1	7.99	7.99	25.6	25.6	30.25	30.255	7.46	7.495		5.61	5.615	5.433	81.5	61.55	9	6.5	
	Mid-Ebb	C1	Sunny	Rough	10:03	10:04	26.7	7.6	middle	3.8	7.98	7.98	25.6	25.6	31	31	30.23	32.855	34.44	5.25	5.25	5.433	76.6	76.6	67	69	38.83
	MIG-EDD	CI	Sunny	Rough	10:03	10:04	20.7	7.0	Illidate	3.6	7.98	7.90	25.6	25.6	31	31	35.48	32.655	34.44	5.25	5.25		76.6	76.6	71	09	36.63
			Sunny	Rough	10:02	10:03			hottom	6.6	7.98	7.98	25.6	25.6	31.1	31.1	63.05	62.96		5.21	5.21	5.21	76.1	76.1	38	39	
			Sunny	Rough	10:02	10:03			bottom	0.6	7.98	7.96	25.6	25.6	31.1	31.1	62.87	62.96		5.21	5.21	5.21	76.1	76.1	40	39 I	
			Sunny	Rough	9:31	9:32			ourfo o o	4	7.93	7.93	25.6	25.6	30.9	30.9	13.02	12.965		5.57	F F7	5.57	81.2	81.2	10	10.5	
	Mid-Ebb	00	Sunny	Rough	9:31	9:32	20.7	_	surface	1	7.93	7.93	25.6	25.6	30.9	30.9	12.91	12.965	17.84	5.57	5.57	5.57	81.2	81.2	11	10.5	10.05
	MIG-EDD	C2	Sunny	Rough	9:30	9:31	26.7	5	hottom	4	7.93	7.02	25.6	25.6	30.91	20.01	22.9	22.715	17.84	5.45	E 4E	E 4E	79.4	70.4	26	26	18.25
40/44/0004			Sunny	Rough	9:30	9:31			bottom	4	7.93	7.93	25.6	25.6	30.91	30.91	22.53	22.715		5.45	5.45	5.45	79.4	79.4	26	26	
18/11/2024			Cloudy	Rough	14:19	14:20			o.urfo.co	4	8.06	0.00	25.7	25.7	30.64	20.04	7.03	7.005		5.8	F 70F	F 70F	84.4	04.05	10		
	Mid-Flood	MO	Cloudy	Rough	14:19	14:20	26.7		surface	1	8.06	8.06	25.7	25.7	30.64	30.64	7.04	7.035	10.91	5.79	5.795	5.795	84.3	84.35	9	9.5	15.05
	MIG-FIOOG	M2	Cloudy	Rough	14:18	14:19	26.7	5.2	h - + +	4.0	8.02	0.00	25.6	05.0	30.96	00.00	14.81	44.70	10.91	5.42	5.40	F 40	79	70	20		15.25
			Cloudy	Rough	14:18	14:19			bottom	4.2	8.02	8.02	25.6	25.6	30.96	30.96	14.77	14.79		5.42	5.42	5.42	79	79	22	21	
			Cloudy	Rough	14:43	14:44			o.urfo.co	4	8.03	0.00	25.7	25.7	30.84	20.04	5.87	F 07		5.73	F 70F		83.6	02.0	8		
			Cloudy	Rough	14:43	14:44			surface	1	8.03	8.03	25.7	25.7	30.84	30.84	5.87	5.87		5.72	5.725	F 050	83.6	83.6	9	8.5	
	Mid Flood	04	Cloudy	Rough	14:42	14:43	00.7	7.0	:	0.05	8.02	0.00	25.7	05.7	30.88	00.00	6.05	0.04	0.07	5.59	5.50	5.658	81.5	04.5	9	40.5	0.407
	Mid-Flood	C1	Cloudy	Rough	14:42	14:43	26.7	7.3	middle	3.65	8.02	8.02	25.7	25.7	30.88	30.88	6.03	6.04	6.07	5.59	5.59		81.5	81.5	12	10.5	9.167
			Cloudy	Rough	14:41	14:42			h - + +	0.0	8.03	0.00	25.6	05.0	31	00.005	6.3	0.0		5.57	5 57	F F-7	81.3	04.0	9		1
			Cloudy	Rough	14:41	14:42			bottom	6.3	8.03	8.03	25.6	25.6	30.99	30.995	6.3	6.3		5.57	5.57	5.57	81.3	81.3	8	8.5	
			Cloudy	Rough	14:06	14:07			,	_	8.04	0.04	25.6	05.0	31.5	04.5	10.89	10.005		5.83	5.00	5.00	85.3	05.05	16		
	Mid Fi	00	Cloudy	Rough	14:06	14:07	00.7		surface	1	8.04	8.04	25.6	25.6	31.5	31.5	10.88	10.885	40.00	5.83	5.83	5.83	85.2	85.25	18	17	47.75
	Mid-Flood	C2	Cloudy	Rough	14:05	14:06	26.7	5.4	h - 41		8.04	0.04	25.5	05.5	31.45	04.45	25.24	05.005	18.06	5.51	F 54	F 5.4	80.5	00.45	17	40.5	17.75
			Cloudy	Rough	14:05	14:06	1		bottom	4.4	8.04	8.04	25.5	25.5	31.45	31.45	25.23	25.235		5.51	5.51	5.51	80.4	80.45	20	18.5	
i		·	<u> </u>																								

	Environment	al Monitori	ng Works for Lung Kwu C	nau Jetty Repair Works			3° M	ontniy Mo	nitoring Re	eport																	
Date	Tide	Station	Weather (Sunny/Cloudy/Rainy)	Sea (Calm/Moderate/Rough)	Sampl	ing Time	Ambient Temperature	Total Water Depth	Level	Sampling Depth		рН	Temp	ater erature °C)	Salini	ity (ppt)		Turbidity (N	Γ U)		DO mg/L			turation %)	Suspen	ded Solids	s (mg/L)
(dd-mm- yyyy)			Condition	Condition	Start	Finish		(m)		(m)	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	Value	Average	DA*
			Rainy	Moderate	15:00	15:01				_	8.07	0.005	24.4	04.4	31.03	04.00	7.13	7.005		5.84	5.00	F 00	83.4	00.05	14	40	
	Mid File	Mo	Rainy	Moderate	15:02	15:02	40.0		surface	1	8.06	8.065	24.4	24.4	31.03	31.03	7.32	7.225	10.00	5.82	5.83	5.83	83.1	83.25	12	13	10
	Mid-Ebb	M2	Rainy	Moderate	15:04	15:05	18.6	5.5	h - + +	4.5	8.03	0.00	24.4	04.4	31.18	04.40	13.21	10.045	10.29	5.69	5.005	F 00F	81.3	04.05	7	7	10
			Rainy	Moderate	15:06	15:06			bottom	4.5	8.03	8.03	24.4	24.4	31.18	31.18	13.48	13.345		5.68	5.685	5.685	81.2	81.25	7	7	
			Rainy	Moderate	15:30	15:30					8.05		24.2		30.39		3.95			5.91			83.9		7		
			Rainy	Moderate	15:31	15:32	100		surface	1	8.04	8.045	24.2	24.2	30.4	30.395	4	3.975		5.89	5.9	F 770	83.6	83.75	6	6.5	
	M. Lett	0.4	Rainy	Moderate	15:33	15:34	18.6	400		5.45	8.01	0.04	24.7	0.4.0	31.16	04.05	4.72	4.70	4.000	5.71	5.045	5.773	82.1	04.0	8	7.	1
	Mid-Ebb	C1	Rainy	Moderate	15:35	15:35		10.3	middle	5.15	8.01	8.01	24.9	24.8	31.34	31.25	4.86	4.79	4.803	5.58	5.645		80.5	81.3	7	7.5	7.833
			Rainy	Moderate	15:36	15:37		1			8	_	24.9	24.0	31.39	04.44	5.88	5.045		5.43	5 405	5 405	78.4	70.4	9	0.5	1
			Rainy	Moderate	15:38	15:38	1		bottom	9.3	8	8	24.9	24.9	31.43	31.41	5.41	5.645		5.38	5.405	5.405	77.8	78.1	10	9.5	
			Rainy	Moderate	15:55	15:56	18.6				8.06		23.9		30.03		5.01			6.1			86		10		
	M. Lett	-00	Rainy	Moderate	15:57	15:58	1		surface	1	8.05	8.055	23.9	23.9	30.04	30.035	4.95	4.98	5.000	6.07	6.085	6.085	85.5	85.75	10	10	45.75
	Mid-Ebb	C2	Rainy	Moderate	15:58	15:59		4.5		0.5	8.03	0.005	24.4	04.45	30.62	00.00	5.7	5.705	5.383	5.92	5.00	5.00	84.3	00.05	23	04.5	15.75
			Rainy	Moderate	16:00	16:00	1		bottom	3.5	8.02	8.025	24.5	24.45	30.7	30.66	5.87	5.785		5.84	5.88	5.88	83.4	83.85	20	21.5	
20/11/2024			Rainy	Moderate	9:25	9:26	18.6				7.99		24.2		30.07		8.21			5.97			84.5		8	_	
			Rainy	Moderate	9:27	9:27			surface	1	7.99	7.99	24.1	24.15	30.1	30.085	9.28	8.745	7.040	5.92	5.945	5.945	83.8	84.15	8	8	
	Mid-Flood	M2	Rainy	Moderate	9:28	9:29		5.7			7.99		24.2		30.13		5.32		7.018	5.79			82		10	_	8.5
			Rainy	Moderate	9:30	9:30	1		bottom	4.7	7.99	7.99	24.2	24.2	30.13	30.13	5.26	5.29		5.77	5.78	5.78	81.7	81.85	8	9	
			Rainy	Moderate	9:48	9:48	18.6		,		8.01	7.04	24.3	0.4.0	30.39	00.005	5.2	5.00		5.92	5.04		84.2	04.05	10	40	
			Rainy	Moderate	9:49	9:50	1		surface	1	6.01	7.01	24.3	24.3	30.4	30.395	5.24	5.22		5.9	5.91	5.040	83.9	84.05	10	10	
		0.4	Rainy	Moderate	9:51	9:51		1		5.0	6.01	0.04	24.5	0.4.5	30.73	00.70	5.83	5.005	0.040	5.73	5.745	5.813	81.9	04.75	11	44.5	1,,,,
	Mid-Flood	C1	Rainy	Moderate	9:52	9:53	1	10.4	middle	5.2	6.01	6.01	24.5	24.5	30.73	30.73	5.82	5.825	6.643	5.7	5.715		81.6	81.75	12	11.5	11.33
			Rainy	Moderate	9:54	9:54	18.6			0.4	6.01	0.04	24.7	0.4.7	31.04	04.00	7.37	0.005		5.6	5 575		80.4	00.4	13	40.5	1
			Rainy	Moderate	9:55	9:56	1		bottom	9.4	6.01	6.01	24.7	24.7	31.12	31.08	10.4	8.885		5.55	5.575	5.575	79.8	80.1	12	12.5	
			Rainy	Moderate	9:00	9:01					7.87	7.07	24.2	04.0	30.27	00.075	5.5	5.43		5.96	5.04	F 0.4	84.6	04.05	10	0.5	
	Mid 51		Rainy	Moderate	9:01	9:02	100	,-	surface	1	7.87	7.87	24.2	24.2	30.28	30.275	5.44	5.47	0.040	5.92	5.94	5.94	83.9	84.25	9	9.5	
	Mid-Flood	C2	Rainy	Moderate	9:03	9:04	18.6	4.7	b - 44	0.7	7.4	7.45	24.4	045	31.08	00.05	7.4	7.045	6.243	5.68	F 0F	F 0F	81.2	04.45	9	0.5	9
			Rainy	Moderate	9:05	9:06	1		bottom	3.7	7.5	7.45	24.6	24.5	30.82	30.95	6.63	7.015		5.62	5.65	5.65	81.7	81.45	8	8.5	
			1	·																							

	<u>Environmenta</u>	al Monitorii	ng Works for Lung Kwu C	hau Jetty Repair Works			3 rd Mc	onthly Mo	nitoring Re	port																	
Date	Tide	Station	Weather (Sunny/Cloudy/Rainy)	Sea (Calm/Moderate/Rough)	Sampli	ing Time	Ambient Temperature	Total Water Depth	Level	Sampling Depth		pH	Temp	ater erature °C)	Salin	ity (ppt)		Turbidity (N	Γ U)		DO mg/L			aturation (%)	Susper	nded Solids	s (mg/L)
(dd-mm- yyyy)			Condition	Condition	Start	Finish		(m)		(m)	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	Value	Average	DA*
			Cloudy	Moderate	7:45	7:46			ourfo o o	4	7.96	7.96	23.2	23.2	29.62	29.62	4.87	4.87		5.83	F 00	5.83	80.9	80.9	5		
	Mid-Ebb	M2	Cloudy	Moderate	7:45	7:46	19.3	4.7	surface	1	7.96	7.96	23.2	23.2	29.62	29.62	4.87	4.87	5.095	5.83	5.83	5.83	80.9	80.9	5	5	5.25
	MIG-EDD	IMZ	Cloudy	Moderate	7:44	7:45	19.3	4.7	bottom	3.7	7.99	7.99	23.2	23.2	29.65	29.645	5.29	5.32	5.095	6.03	6.035	6.035	83.7	83.8	5	5.5	3.25
			Cloudy	Moderate	7:44	7:45			DOLLOITI	3.7	7.99	7.99	23.2	23.2	29.64	29.645	5.35	5.32		6.04	6.035	0.033	83.9	03.0	6	5.5 I	
			Cloudy	Moderate	7:35	7:36			surface	1	7.9	7.9	23.3	23.3	30.31	30.31	9.31	9.285		5.81	5.805		81.1	81	9	9	
			Cloudy	Moderate	7:35	7:36			Surface	1	7.9	7.5	23.3	20.0	30.31	30.31	9.26	9.203		5.8	3.803	5.74	80.9	01	9		<u> </u>
	Mid-Ebb	C1	Cloudy	Moderate	7:34	7:35	19.3	6.5	middle	3.25	7.88	7.88	23.8	23.8	31.62	31.62	11.55	11.555	12.09	5.67	5.675	3.74	80.5	80.5	12	11.5	14
	THE EDD	01	Cloudy	Moderate	7:34	7:35	10.0	0.0	muute	0.20	7.88	7.00	23.8	20.0	31.62	01.02	11.56	11.000	12.00	5.68	0.070		80.5	00.0	11	11.0]
			Cloudy	Moderate	7:33	7:34			bottom	5.5	7.86	7.86	23.8	23.8	31.67	31.67	15.42	15.42		5.71	5.71	5.71	81.1	81.1	21	21.5	
			Cloudy	Moderate	7:33	7:34			20110111		7.86	7.00	23.8		31.67	02.07	15.42	101.12		5.71	0.72	0.72	81.1	02.12	22		
			Cloudy	Moderate	8:03	8:04			surface	1	7.97	7.97	23.2	23.2	29.85	29.85	4.66	4.64		5.81	5.81	5.81	80.8	80.8	4	4	
	Mid-Ebb	C2	Cloudy	Moderate	8:03	8:04	19.3	4.3		_	7.97		23.2		29.85		4.62		5.768	5.81			80.8		4	· 	5.75
			Cloudy	Moderate	8:02	8:03			bottom	3.3	7.99	7.99	23.4	23.4	30.36	30.36	6.85	6.895		5.92	5.93	5.93	82.8	82.9	7	7.5	
22/11/2024			Cloudy	Moderate	8:02	8:03					7.99		23.4		30.36		6.94			5.94			83		8		
			Cloudy	Moderate	13:19	13:20			surface	1	8.01	8.01	23.3	23.3	29.91	29.91	7.31	7.335		5.88	5.88	5.88	81.9	81.9	11	11	
	Mid-Flood	M2	Cloudy	Moderate	13:19	13:20	20.8	5.6			8.01		23.3		29.91		7.36		5.855	5.88			81.9		11		8.5
			Cloudy	Moderate	13:18	13:19			bottom	4.6	8.06	8.06	23.5	23.5	30.49	30.5	4.37	4.375		6.02	6.015	6.015	84.4	84.35	6	6	
			Cloudy	Moderate	13:18	13:19					8.06		23.5		30.51		4.38			6.01			84.3		6		
			Cloudy	Moderate	13:44	13:45			surface	1	8.01	8.01	23.5	23.5	30.43	30.43	3.7	3.67		5.76	5.76		8.08	80.75	4	4.5	
			Cloudy	Moderate	13:44	13:45					8.01		23.5		30.43		3.64			5.76		5.74	80.7		5		
	Mid-Flood	C1	Cloudy	Moderate	13:43	13:44	20.8	7.2	middle	3.6	8.03	8.03	23.6	23.6	31.07	31.07	5.17	5.15	5.175	5.72	5.72		80.6	80.6	6	6	7
			Cloudy	Moderate	13:43	13:44					8.03		23.6		31.07		5.13			5.72			80.6		6		
			Cloudy	Moderate	13:42	13:43			bottom	6.2	8.04	8.04	23.8	23.8	31.36	31.36	6.72	6.705		5.75	5.755	5.755	81.4	81.5	10	10.5	
			Cloudy	Moderate	13:42	13:43					8.04		23.8		31.36		6.69			5.76			81.6		11		
			Cloudy	Moderate	13:01	13:02			surface	1	8.01	8.01	23.5	23.5	30.42	30.42	3.63	3.645		5.86	5.86	5.86	82.1	82.1	4	4	
	Mid-Flood	C2	Cloudy	Moderate	13:01	13:02	20.8	4.3			8.01		23.5		30.42		3.66		4.243	5.86			82.1		4		4.75
			Cloudy	Moderate	13:00	13:01			bottom	3.3	8.04	8.04	23.6	23.6	30.99	30.995	4.85	4.84		5.96	5.96	5.96	83.9	84	5	5.5	
			Cloudy	Moderate	13:00	13:01				-	8.04		23.6	-	31		4.83	·		5.96			84.1		6	<u> </u>	

	Environmenta	al Monitorii	ng Works for Lung Kwu C	hau Jetty Repair Works			3º Mc	onthly Mo	nitoring Re	port																	
Date	Tide	Station	Weather (Sunny/Cloudy/Rainy)	Sea (Calm/Moderate/Rough)	Sampli	ing Time	Ambient Temperature	Total Water Depth	Level	Sampling Depth		pH	Temp	ater erature °C)	Salin	ity (ppt)		Turbidity (N	TU)		DO mg/L			ituration (%)	Suspen	nded Solids	(mg/L)
(dd-mm- yyyy)			Condition	Condition	Start	Finish		(m)		(m)	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	Value	Average	DA*
			Cloudy	Rough	9:16	9:17			ourfo o o	1	8.01	0.01	22.9	22.0	31.74	24.745	3.89	2.05		5.95	F 0FF	F 0FF	83.1	02.05	7	7.5	
	Mid-Ebb	M2	Cloudy	Rough	9:17	9:17	19.6	4.6	surface	1	8.01	8.01	22.9	22.9	31.75	31.745	3.81	3.85	3.803	5.96	5.955	5.955	83.4	83.25	8	7.5	6.75
	MIG-EDD	I™Z	Cloudy	Rough	9:15	9:16	19.0	4.0	bottom	3.6	8.03	8.025	22.9	22.9	31.74	31.745	3.8	3.755	3.003	6.08	6.06	6.06	85	84.65	6	6	6.75
			Cloudy	Rough	9:16	9:16			DOLLOITI	3.0	8.02	6.025	22.9	22.9	31.75	31.745	3.71	3./55		6.04	6.06	6.06	84.3	64.65	6	0	
			Cloudy	Rough	9:31	9:31			surface	1	7.97	7.97	22.8	22.8	30.57	30.54	1.51	1.435		5.86	5.855		81.2	81.15	4	1	
			Cloudy	Rough	9:31	9:31			Surface	1	7.97	7.37	22.8	22.0	30.51	30.34	1.36	1.455		5.85	3.833	5.87	81.1	81.13	4	4	
	Mid-Ebb	C1	Cloudy	Rough	9:30	9:30	19.6	6.5	middle	3.25	7.99	7.99	22.9	22.9	30.92	30.945	3.63	3.625	4.228	5.89	5.885	3.67	82	81.9	4	3.5	5.5
	THE EDD	01	Cloudy	Rough	9:30	9:31	10.0	0.0	muute	0.20	7.99	7.55	22.9	22.0	30.97	00.040	3.62	0.020	4.220	5.88	0.000		81.8	01.0	3	0.0	
			Cloudy	Rough	9:29	9:29			bottom	5.5	8.02	8.02	22.9	22.9	31.09	31.09	7.5	7.625		5.96	5.97	5.97	83.1	83.15	9	9	
			Cloudy	Rough	9:29	9:29			Dottom	0.0	8.02	0.02	22.9	22.0	31.09	01.00	7.75	7.020		5.98	0.07	0.07	83.2	55.15	9		
			Cloudy	Rough	8:56	8:56			surface	1	7.97	7.97	22.7	22.7	31.91	31.905	5.72	5.645		5.98	5.98	5.98	83.4	83.4	7	8	
	Mid-Ebb	C2	Cloudy	Rough	8:56	8:57	19.6	4.2	Suridoo		7.97	7.07	22.7	22.7	31.9	01.000	5.57	0.040	5.548	5.98	0.00	0.00	83.4	55.4	9		6.75
	THE LOS	02	Cloudy	Rough	8:55	8:55	10.0		bottom	3.2	7.97	7.97	22.7	22.7	31.9	31.9	5.49	5.45	0.040	6.01	6.005	6.005	83.8	83.7	5	5.5	0.70
25/11/2024			Cloudy	Rough	8:55	8:56			20110111		7.97	7.07	22.7		31.9	02.0	5.41	51.15		6	5.555	0.000	83.6	00.7	6		
20/11/202			Cloudy	Rough	15:16	15:17			surface	1	8	8	23	23	30.64	30.635	2.2	2.205		5.99	5.99	5.99	83.4	83.4	8	8	
	Mid-Flood	M2	Cloudy	Rough	15:17	15:17	20.4	4.7			8		23		30.63	00.000	2.21		3.193	5.99	0.00	0.00	83.4		8		7.5
			Cloudy	Rough	15:16	15:16			bottom	3.7	8.06	8.055	23.1	23.1	31.12	31.115	4.21	4.18		6.14	6.13	6.13	85.8	85.65	7	7	
			Cloudy	Rough	15:16	15:16			20110111		8.05	0.000	23.1		31.11	01.110	4.15	20		6.12	0.10	0.20	85.5	00.00	7		
			Cloudy	Rough	15:01	15:02			surface	1	8.02	8.015	23.3	23.3	31.03	31.015	2.08	2.1		5.79	5.785		81.1	81.1	6	5.5	
			Cloudy	Rough	15:02	15:02					8.01		23.3		31		2.12			5.78		5.803	81.1		5		_
	Mid-Flood	C1	Cloudy	Rough	15:00	15:00	20.4	6.7	middle	3.35	8.05	8.045	23.2	23.2	31.24	31.21	2	2.04	1.878	5.82	5.82		81.5	81.45	3	3	4.167
			Cloudy	Rough	15:01	15:01					8.04		23.2		31.18		2.08			5.82			81.4		3		
			Cloudy	Rough	15:00	15:00			bottom	5.7	8.12	8.105	23.2	23.2	31.41	31.41	1.38	1.495		5.88	5.875	5.875	82.5	82.4	4	4	
			Cloudy	Rough	15:00	15:00					8.09		23.2		31.41		1.61			5.87			82.3		4		
			Cloudy	Rough	15:29	15:29			surface	1	8	8	23.4	23.4	31.34	31.33	1.7	1.7		5.72	5.72	5.72	80.4	80.4	6	5.5	
	Mid-Flood	C2	Cloudy	Rough	15:29	15:29	20.4	4.6		_	8		23.4		31.32		1.7	=	1.673	5.72			80.4		5		5
			Cloudy	Rough	15:28	15:28			bottom	3.6	8	8	23.4	23.4	31.47	31.475	1.65	1.645		5.74	5.735	5.735	80.8	80.75	4	4.5	
			Cloudy	Rough	15:28	15:28					8		23.4		31.48		1.64			5.73			80.7		5		

	Environmenta	al Monitorii	ng Works for Lung Kwu C	hau Jetty Repair Works			3º Mc	onthly Mo	nitoring Re	port																	
Date	Tide	Station	Weather (Sunny/Cloudy/Rainy)	Sea (Calm/Moderate/Rough)	Sampl	ing Time	Ambient Temperature	Total Water Depth	Level	Sampling Depth		рН	Temp	ater erature °C)	Salini	ity (ppt)		Turbidity (N	TU)		DO mg/L			ituration (%)	Suspen	ided Solids	(mg/L)
(dd-mm- yyyy)			Condition	Condition	Start	Finish		(m)		(m)	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	Value	Average	DA*
			Sunny	Moderate	10:17	10:17			ourfood	1	8.06	8.06	22.6	22.6	32.16	32.16	3.69	3.79		6.12	6.10	6.12	85.2	85.2	4		
	Mid-Ebb	M2	Sunny	Moderate	10:17	10:17	21.5	4.9	surface	1	8.06	0.00	22.6	22.6	32.16	32.10	3.89	3.79	3.958	6.12	6.12	0.12	85.2	65.2	4	4	6.5
	MIG-EDD	I*IZ	Sunny	Moderate	10:16	10:16	21.5	4.9	hottom	3.9	8.11	8.1	22.5	22.5	32.19	32.19	4.12	4.125	3.936	6.14	6.13	6.13	85.4	85.35	8	9	0.5
			Sunny	Moderate	10:16	10:16			bottom	3.9	8.09	0.1	22.5	22.5	32.19	32.19	4.13	4.125		6.12	0.13	0.13	85.3	65.35	10	9	
			Sunny	Moderate	10:30	10:30			ourfood	1	8.04	8.04	23.3	23.3	32.52	32.52	2.53	2.53		5.77	5.77		81.6	81.6	3	3	
			Sunny	Moderate	10:30	10:30	21.5		surface	1	8.04	6.04	23.3	23.3	32.52	32.52	2.53	2.55		5.77	5.77	5.785	81.6	01.0	3	ა	
	Mid-Ebb	C1	Sunny	Moderate	10:29	10:29	21.5	7.6	middla	3.8	8.05	8.05	23.3	23.3	32.51	32.51	2.57	2.56	2.675	5.8	5.8	5.785	81.9	81.9	6	5.5	4.333
	MIIU-EDD	CI	Sunny	Moderate	10:29	10:29		7.0	middle	3.6	8.05	6.05	23.3	23.3	32.51	32.51	2.55	2.56	2.075	5.8	5.6		81.9	61.9	5	5.5	4.333
			Sunny	Moderate	10:29	10:29			hottom	6.6	8.05	8.05	23.3	23.3	32.52	32.515	3.02	2.935		5.83	5.82	5.82	82.4	82.25	4	4.5	
			Sunny	Moderate	10:29	10:29	04.5		bottom	0.0	8.05	8.05	23.3	23.3	32.51	32.515	2.85	2.935		5.81	5.62	3.62	82.1	62.25	5	4.5	
			Sunny	Moderate	10:00	10:00	21.5		surface	1	7.96	7.96	22.5	22.5	32.32	32.32	5.73	5.77		6.09	6.09	6.09	84.9	84.85	9	9	
	Mid-Ebb	CO	Sunny	Moderate	10:00	10:00		4.7	Surface	1	7.96	7.90	22.5	22.5	32.32	32.32	5.81	5.77	5.795	6.09	6.09	0.09	84.8	04.05	9	9	9
	MIIU-EDD	C2	Sunny	Moderate	10:00	10:00		4.7	hottom	3.7	7.93	7.93	22.5	22.5	32.33	32.325	5.78	5.82	5.795	6.19	6.175	6.175	86.3	86	8	9	9
27/11/2024			Sunny	Moderate	10:00	10:00	21.5		bottom	3.7	7.93	7.93	22.5	22.0	32.32	32.323	5.86	3.62		6.16	0.175	0.175	85.7	80	10	9	
27/11/2024			Sunny	Moderate	16:18	16:19	21.5		curfaco	1	8.05	8.05	23.6	23.6	32.64	32.64	1.53	1.555		5.88	5.88	5.88	83.7	83.7	6	6.5	
	Mid-Flood	M2	Sunny	Moderate	16:19	16:19		5.3	surface	1	8.05	8.05	23.6	23.0	32.64	32.04	1.58	1.555	2.055	5.88	3.66	3.00	83.7	65.7	7	0.5	7.75
	Miu-Flood	I*IZ	Sunny	Moderate	16:17	16:17		5.5	bottom	4.3	8.06	8.055	23.6	23.6	32.59	32.59	2.62	2.555	2.055	5.98	5.97	5.97	85	84.8	8	9	7.73
			Sunny	Moderate	16:17	16:17	21.5		DOLLOITI	4.9	8.05	8.055	23.6	25.0	32.59	32.39	2.49	2.555		5.96	5.97	5.57	84.6	04.0	10	<u>.</u>	
			Sunny	Moderate	16:24	16:24	21.5		surface	1	8.04	8.04	23.6	23.6	32.59	32.59	4.76	4.435		5.8	5.8		82.4	82.45	9	8.5	
			Sunny	Moderate	16:24	16:24			Surface	1	8.04	8.04	23.6	25.0	32.59	32.39	4.11	4.433		5.8	3.8	5.808	82.5	02.43	8	0.0	
	Mid-Flood	C1	Sunny	Moderate	16:23	16:23		7.4	middle	3.7	8.05	8.05	23.6	23.6	32.59	32.59	7.29	7.05	6.077	5.82	5.815	3.000	82.7	82.7	12	11	12.17
	Miu-Flood	CI	Sunny	Moderate	16:23	16:23	21.5	7.4	illiuule	3.7	8.05	8.05	23.6	23.0	32.59	32.39	6.81	7.05	0.077	5.81	5.615		82.7	02.7	10	11	12.17
			Sunny	Moderate	16:23	16:23	21.5		hottom	6.4	8.05	8.05	23.6	23.6	32.59	32.59	6.64	6.745		5.93	5.915	5.915	84.3	84.1	19	17	
			Sunny	Moderate	16:23	16:23			bottom	0.4	8.05	8.03	23.6	25.0	32.59	32.39	6.85	0.745		5.9	5.915	5.915	83.9	04.1	15	17	
			Sunny	Moderate	16:05	16:05			ourfood	1	8.04	0.04	23.5	02 F	32.62	22.62	1.74	1 70		5.86	E 06	E 06	83.2	02.2	2	2.5	
	Mid Flood	C 2	Sunny	Moderate	16:05	16:05	21 5	4.5	surface	1	8.04	8.04	23.5	23.5	32.62	32.62	1.7	1.72	2.052	5.86	5.86	5.86	83.2	83.2	3	2.5	
	Mid-Flood	C2	Sunny	Moderate	16:04	16:04	21.5	4.5	hottom	2.5	8.03	0.02	23.4	22.4	32.61	22.61	2.42	2 205	2.053	5.86	E 0EE	E 0EE	83	02	3	2.5	3
			Sunny	Moderate	16:04	16:04			bottom	3.5	8.03	8.03	23.4	23.4	32.61	32.61	2.35	2.385		5.85	5.855	5.855	83	83	4	3.5	

	<i>Environmenta</i>	al Monitorii	ng Works for Lung Kwu C	hau Jetty Repair Works			3 rd Mc	onthly Mo	nitoring Re	port																	
Date	Tide	Station	Weather (Sunny/Cloudy/Rainy)	Sea (Calm/Moderate/Rough)	Sampl	ing Time	Ambient Temperature	Total Water Depth	Level	Sampling Depth		рН	Temp	ater erature °C)	Salin	ity (ppt)		Turbidity (N	TU)		DO mg/L			turation %)	Suspen	ided Solids	(mg/L)
(dd-mm- yyyy)			Condition	Condition	Start	Finish		(m)		(m)	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	Value	Average	DA*
			Sunny	Moderate	12:21	12:22			ourfo o o	1	8.09	0.00	22	22	32.36	32.36	3.54	3.555		6.2			85.6	05.0	8	7.5	
	Mid-Ebb	M2	Sunny	Moderate	12:21	12:22	20	5.5	surface	1	8.09	8.09	22	22	32.36	32.36	3.57	3.555	3.948	6.2	6.2	6.2	85.6	85.6	7	7.5	6.75
	MIIU-EDD	I™IZ	Sunny	Moderate	12:20	12:21	20	5.5	bottom	4.5	8.11	8.11	22	22	32.36	32.365	4.32	4.34	3.946	6.33	6.335	6.335	87.3	87.35	6	6	6.75
			Sunny	Moderate	12:20	12:21			DOLLOITI	4.5	8.11	0.11	22	22	32.37	32.303	4.36	4.54		6.34	0.333	0.333	87.4	67.35	6	0	
			Sunny	Moderate	12:02	12:03			ourfood	1	8.12	8.12	22.2	22.2	32.64	32.64	4.72	4.71		6.13	6.13		85.1	85.1	8	7.5	
			Sunny	Moderate	12:02	12:03			surface	1	8.12	0.12	22.2	22.2	32.64	32.64	4.7	4./1		6.13	6.13	6.13	85.1	05.1	7	7.5	
	Mid-Ebb	C1	Sunny	Moderate	12:01	12:02	20	9.1	middlo	4.55	8.12	8.12	22.2	22.2	32.64	32.64	5.05	5.045	5.112	6.13	6 12	0.13	85	85	8	8	7.667
	MIIU-EDD	CI	Sunny	Moderate	12:01	12:02	20	9.1	middle	4.55	8.12	0.12	22.2	22.2	32.64	32.64	5.04	5.045	5.112	6.13	6.13		85	65	8	0	7.007
			Sunny	Moderate	12:00	12:01			hottom	8.1	8.13	8.13	22.2	22.2	32.64	32.64	5.61	5.58		6.25	6.255	6.255	86.6	86.7	8	7.5	
			Sunny	Moderate	12:00	12:01			bottom	0.1	8.13	0.13	22.2	22.2	32.64	32.64	5.55	5.56		6.26	6.255	0.255	86.8	00.7	7	7.5	
			Sunny	Moderate	12:46	12:47			surface	1	8.11	8.115	22	22	32.58	32.58	4.19	4.19		6.3	6.3	6.3	87	87	7	6.5	
	Mid-Ebb	C2	Sunny	Moderate	12:46	12:47	20	4.9	Surface	1	8.12	6.115	22	22	32.58	32.56	4.19	4.19	4.693	6.3	6.3	0.3	87	67	6	0.5	6.75
	MIIU-EDD	02	Sunny	Moderate	12:45	12:46	20	4.9	bottom	3.9	8.15	8.15	21.7	21.7	32.78	32.78	5.19	5.195	4.093	6.47	6.47	6.47	89	89.05	8	7	0.73
29/11/2024			Sunny	Moderate	12:45	12:46			DOLLOITI	3.9	8.15	0.13	21.7	21.7	32.78	32.76	5.2	5.195		6.47	0.47	0.47	89.1	69.05	6		
29/11/2024			Sunny	Moderate	7:29	7:30			surface	1	8.06	8.06	22.2	22.2	32.43	32.43	3.68	3.68		6.15	6.155	6.155	85.2	85.2	8	7.5	
	Mid-Flood	M2	Sunny	Moderate	7:29	7:30	18.2	5.5	Surface	1	8.06	0.00	22.2	22.2	32.43	32.43	3.68	3.06	3.758	6.16	0.155	0.155	85.2	65.2	7	7.5	
	Mu-1 toou	1112	Sunny	Moderate	7:28	7:29	10.2	3.3	bottom	4.5	8.05	8.05	22.1	22.1	32.42	32.42	3.82	3.835	3.736	6.38	6.39	6.39	88.4	88.5	6	6.5	'
			Sunny	Moderate	7:28	7:29			DOLLOITI	4.5	8.05	6.03	22.1	22.1	32.42	32.42	3.85	3.633		6.4	0.39	0.39	88.6	66.5	7	0.5	
			Sunny	Moderate	7:52	7:53			surface	1	8.06	8.06	22.1	22.1	32.45	32.45	4.75	4.73		6.06	6.06		83.8	83.8	8	7	
			Sunny	Moderate	7:52	7:53			Surface	1	8.06	0.00	22.1	22.1	32.45	32.43	4.71	4.73		6.06	0.00	6.07	83.8	65.6	6		
	Mid-Flood	C1	Sunny	Moderate	7:51	7:52	18.2	9.3	middle	4.65	8.06	8.06	22	22	32.44	32.44	4.91	4.91	4.91	6.08	6.08	0.07	84	84	8	9	8.167
	Miu-Flood	CI	Sunny	Moderate	7:51	7:52	10.2	9.5	illiuule	4.65	8.06	0.00	22	22	32.44	32.44	4.91	4.91	4.91	6.08	0.08		84	04	10	<u>.</u>	8.107
			Sunny	Moderate	7:50	7:51			bottom	8.3	8.07	8.07	22	22	32.43	32.43	5.07	5.09		6.11	6.11	6.11	84.4	84.4	8	8.5	
			Sunny	Moderate	7:50	7:51			Dottom	0.5	8.07	0.07	22	22	32.43	32.43	5.11	3.09		6.11	0.11	0.11	84.4	04.4	9	0.0	
			Sunny	Moderate	7:17	7:18			curface	1	8.02	8.02	21.8	21.8	32.79	32.79	7.65	7.65		6.2	6.2	6.2	85.5	85.5	13	10.5	
	Mid-Flood	C2	Sunny	Moderate	7:17	7:18	18.2	5.1	surface	1	8.02	0.02	21.8	21.0	32.79	32./3	7.65	7.00	7.865	6.2	0.2	0.2	85.5	ບບ.ບ	12	12.5	12.25
	1-11u-1-100u	UZ	Sunny	Moderate	7:16	7:17	10.2	3.1	bottom	4.1	8.05	8.05	21.7	21.7	32.81	32.81	8.09	8.08	7.000	6.29	6.29	6.29	86.6	86.65	13	12	12.20
			Sunny	Moderate	7:16	7:17			DOLLOIN	4.1	8.05	0.00	21.7	21./	32.81	02.01	8.07	0.00		6.29	0.23	0.29	86.7	00.00	11	12	

Appendix C2 Weather Condition during Impact Monitoring

November 2024 Weather Condition

Weather Station: Tuen Mun

Date	Rainfall (mm)	Max. Temp. (°C)	Min. Temp. (℃)	Relative Humidity (%)
1/11/2024	0	30.3	23.7	49-64
2/11/2024	0	26.3	22.6	57-75
3/11/2024	0	28.3	22.7	62-78
4/11/2024	Trace	28.6	23.4	67-82
5/11/2024	Trace	29.3	23.2	55-82
6/11/2024	Trace	28.4	22.5	52-78
7/11/2024	Trace	27.4	20.6	32-70
8/11/2024	0	28.2	19.8	40-57
9/11/2024	1.9	28.3	23.3	52-87
10/11/2024	6.2	26.4	23.2	71-88
11/11/2024	0	27.3	22.7	72-82
12/11/2024	0	29.9	21.7	61-87
13/11/2024	14.8	25.8	22.7	73-90
14/11/2024	6.3	26.7	22.9	82-92
15/11/2024	36.6	25.2	23.1	92-97
16/11/2024	33.3	29	23.6	78-95
17/11/2024	6.1	25.5	22.8	80-95
18/11/2024	Trace	26.7	22.3	66-86
19/11/2024	7.3	22.4	17.3	71-95
20/11/2024	73.8	17.5	16.5	92-96
21/11/2024	5.6	21.4	16.1	79-96
22/11/2024	Trace	21.5	17.9	65-81
23/11/2024	Trace	21.4	17.7	63-76
24/11/2024	1	20	18.1	66-90
25/11/2024	Trace	22.2	19.4	73-83
26/11/2024	1.2	23.3	17.5	48-91
27/11/2024	0	22.6	15.2	33-59
28/11/2024	0	22.1	16.1	28-46
29/11/2024	0	22.1	14.7	26-44
30/11/2024	0	23.7	14.7	45-66

Note:

^{*} Trace means rainfall less than 0.05mm * Source: Hong Kong Observatory

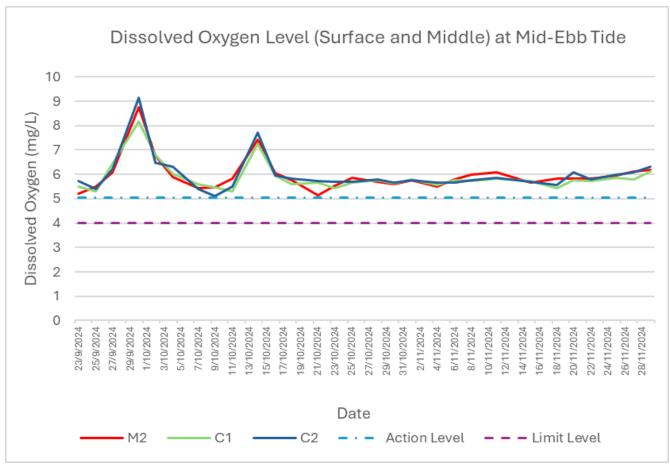
Appendix D Event and Action Plan for Marine Water Quality

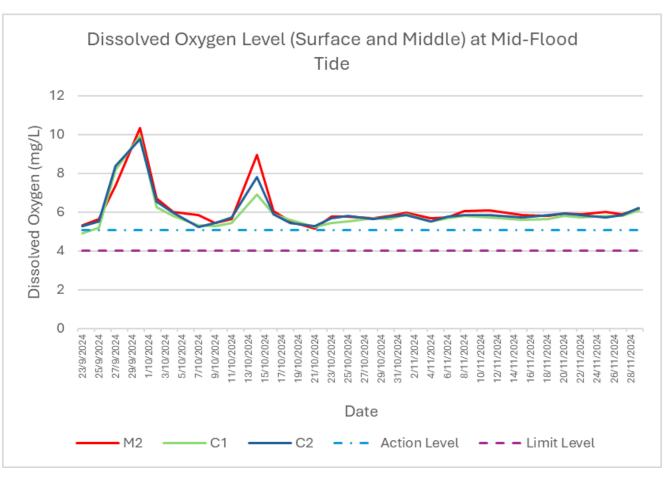
Event	ET Leader	ER	Contractor
Action level being exceeded by one sampling day	Repeat <i>in situ</i> measurement on next day of exceedance to confirm findings; Identify source(s) of impact; Inform Contractor and ER; Check monitoring data, all plant,	Check monitoring data submitted by ET and Contractor's working methods; Confirm receipt of notification of non-compliance in writing; Notify Contractor.	Inform the ER and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Amend working methods if appropriate.
Action level being exceeded by two or more consecutive sampling days	equipment and Contractor's working methods. Repeat measurement on next day of exceedance to confirm findings; Identify source(s) of impact; Inform Contractor, ER and EPD; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with ER and Contractor; Ensure mitigation measures are implemented; Increase the monitoring frequency to daily until no exceedance of Action level.	Check monitoring data submitted by ET and Contractor's working methods; Discuss with ET and Contractor on the proposed mitigation measures; Ensure mitigation measures are properly implemented; Assess the effectiveness of the implemented mitigation measures.	Inform the Engineer and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment and consider changes of working methods; Submit proposal of additional mitigation measures to ER within 3 working days of notification and discuss with ET and ER; Implement the agreed mitigation measures.

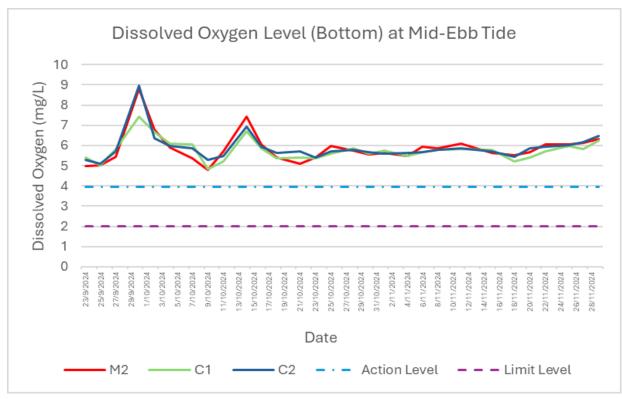
Event	ET Leader	ER	Contractor
Limit level being exceeded by one sampling day	Repeat measurement on next day of exceedance to confirm findings; Identify source(s) of impact; Inform Contractor, ER and EPD; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with ER and Contractor.	Check monitoring data submitted by ET and Contractor's working method; Confirm receipt of notification of failure in writing; Discuss with ET and Contractor on the proposed mitigation measures; Request Contractor to review the working methods.	Inform the ER and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment and consider changes of working methods; Submit proposal of mitigation measures to ER within 3 working days of notification and discuss with ET and ER.
Limit level being exceeded by two or more consecutive sampling days	Repeat measurement on next day of exceedance to confirm findings; Identify source(s) of impact; Inform Contractor, ER and EPD; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with ER and Contractor; Ensure mitigation measures are	Check monitoring data submitted by ET and Contractor's working method; Discuss with 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; Ensure mitigation measures are properly implemented;	Take immediate action to avoid further exceedance; Submit proposal of mitigation measures to ER within 3 working days of notification and discuss with ET and ER; Implement the agreed mitigation measures; Resubmit proposals of mitigation measures if problem still not under control;

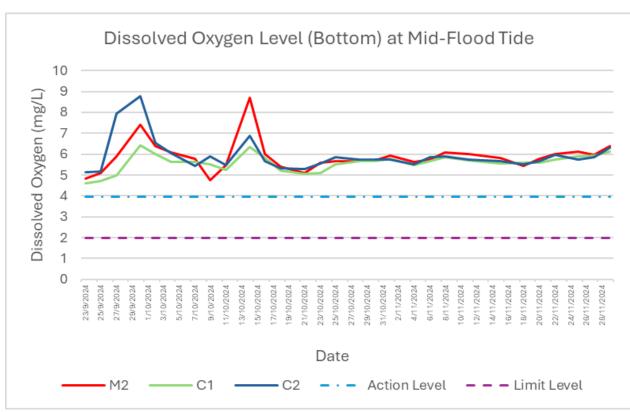
Event	ET Leader	ER	Contractor
	implemented; Increase the monitoring frequency to daily until no exceedance of Limit level for two consecutive days.	Consider and instruct, if necessary, the Contractor to slow down or to stop all or part of the construction activities until no exceedance of Limit level.	As directed by the Engineer, to slow down or to stop all or part of the construction activities until no exceedance of Limit level.

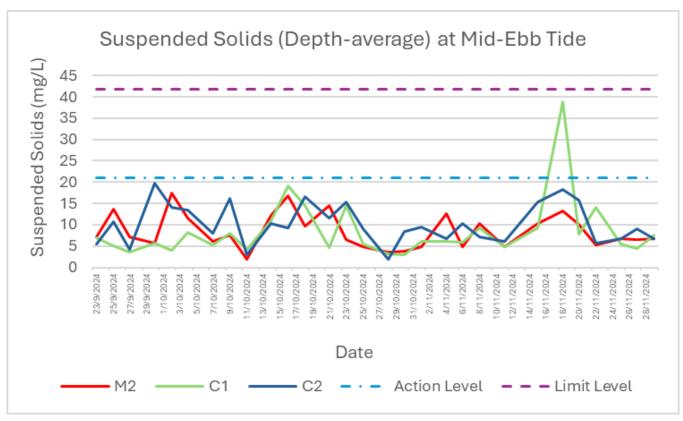
Appendix E Graphical Plots of Impact Monitoring Data

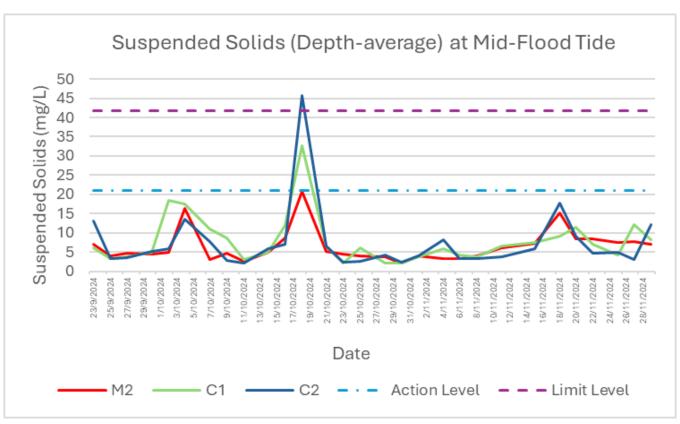


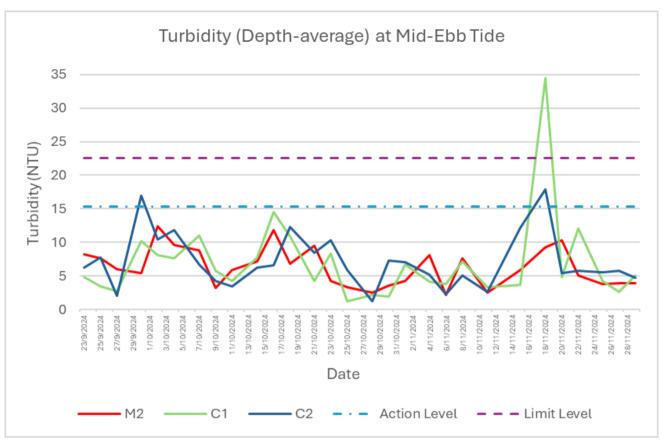


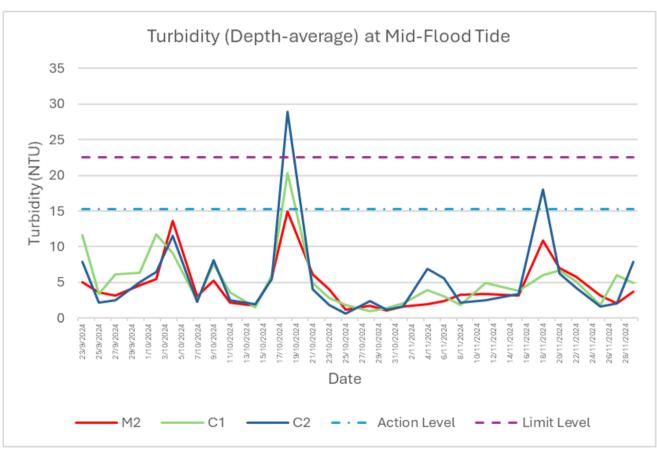












Appendix F Environmental Checklist



Ecosystems Ltd.

生態系統顧問有限公司

Environmental Monitoring Works for Lung Kwu Chau Jetty Repair Works

Environmental Checklist for Site Audit

S/11/2029

Weather:

Audit No: 007

Item **Environmental Protection Measures /** Implementation Action / Remarks Mitigation Measures Previous follow up action Are previous follow up actions implemented and accepted? Measure / Practice to be implemented Is the Environmental Permit displayed at the entrance of construction site? 2.2 Is Permit under s11 of Cap. 476A for the anchorage works 2.3 Is MDN for the proposed reinstatement works obtained? 2.4 Is the site kept clean and tidy? 2.5 Is the site free from wastewater discharge to the sea? 2.6 Are there any measures to prevent leaked oil/chemical from entering the sea? 2.7 Is the site free from general waste (from construction worker) with reasonable condition? 2.8 Are there any measures to collect spilt cement and concrete washings during concreting works? 2.9 Are construction solid waste, debris and rubbish (from construction activities) on site collected, handled and disposed of properly to avoid water quality impacts? 2.11 Is the 24-hour guard boat present around the Jetty? 2.12 Is the double layer of floating type silt curtain adopted? 2.13 Are there spare silt curtains ready on site? 2.14 Are steel drag anchors adopted for the derrick lighter? 2.15 Are the armour rock stored properly at the hopper of derrick lighter? 2.16 Are the broken slab stored properly at the hopper of derrick lighter? 2.17 Is the repair works area fenced off for maintaining an access for other's use? 2.18 Is there any foundation of slab interrupted? 2.19 Is quieter machinery being used (e.g. silenced breaker)? 2.20 Is there any blasting work observed? 2.21 Are lifting eyes installed to the concrete blocks, if the existing lifting holes are missing? 2.22 All pipe leakages shall be repaired promptly, and plant shall not be operated with leaking pipes.

Item	Environmental Protection Measures /	lmpl	ement	ation	Action / Remarks
item	Mitigation Measures	Υ	N	NA	
2.23	The decks of all vessels shall be kept tidy and free of oil or				
2.20	other substances that might be accidentally or otherwise				
	washed overboard.	/			
2.24	Adequate freeboard (i.e. minimum of 200mm) shall be				
	maintained on barges to ensure that decks are not washed				
	by wave action.	/			
2.25	All hopper barges shall be fitted with tight fitting seals to	1			
0	their bottom openings to prevent leakage of materials				
2.26	Construction activities shall not cause foam, oil, grease,				
2.20	scum, litter or other objectionable matter to be present on				
	the water within the site or dumping grounds.	/			
2.27	Loading of barges and hopper barges shall be controlled to				
	prevent splashing of material into the surrounding water.				
	Barges or hopper barges shall not be filled to a level that will				
	cause the overflow of materials or sediment laden water	/	İ		·
	during loading or transportation.				
Mitigat	ion Measures on Marine Park		l l	1.	,
3.1	No signs of fishing, hunting and collecting animals and	/			
J. 1	plant or its part.				
3.2	Check the work site boundaries regularly to ensure that no	1		1	
J.2	damage occurs to surrounding natural habitats.	/			
3.3	Prohibit and prevent open fires within the work site boundary	<u> </u>	1		
3.5	during construction and provide temporary firefighting				
	equipment in the work areas.	′			
3.4	Reinstate temporary work sites/disturbed areas immediately		-	1. /-	
J.4	after completion of the construction.				
3.5	The use of high-speed vessels in the construction or			 	
3.5	operation of the jetty shall be avoided where possible. If high				
	speed vessels must be used, they shall be required to slow				
	to under 10 knots which is the speed restriction for all marine				
	traffic inside the Marine Park Boundary. Furthermore, marine	,			
	traffic entering the Marine Park to the proposed jetty area				
	shall follow a regular and predictable route.	1			*
3.6	All vessel operators working on the project shall be given a	1			
3.0	briefing, alerting them to the conservation significance of the				
	Marine Park.	 			
3.7	A policy of no dumping of rubbish, food, oil, or chemicals				
3.7	shall be strictly enforced. This shall also be covered in the				
	contractor briefing.		1		
Good S	Site Practices and Waste Reduction Measures				
4.1	Nomination of an approved personnel, such as a site agent,	1	1	1	
→. 1	to be responsible for good site practices, arrangements for				
	collection and effective disposal to an appropriate facility,	/			
	of all wastes generated at the site.	'			
4.2	Training of site personnel in proper waste management	1			
-T+£	procedures.				
4.3	High standards of waste management shall be observed on	1			
7.0	the works vessels and barges to ensure that no waste	1			
	arisings or fuel/diesel oils are disposed to the surrounding	1/			
	marine waters.	1			
4.4	No C&D materials and machinery fuels enter the marine	+ 7			
~.~	waters at the site;	/			
4.5	No stockpiles of construction material shall be permitted	<u> </u>		1	
4.5	on Lung Kwu Chau Island outside project site bound.				
4.6	All wastes, unused construction materials and construction	+	-	+ /	
4.6	equipment shall be removed from Lung Kwu Chau Island			/	
				/	
4.7	after the works are completed. A recording system for the number of wastes generated,	+-/	-		
4.7					
	recycled and disposed of including the disposal sites.				

Item	Environmental Protection Measures /	Implementation			Action / Remarks
	Mitigation Measures	Υ	N	NA	
4.8	In order to monitor the disposal of C&D materials at public filling areas, and to control fly-tipping, a trip-ticket system shall be included as one of the contractual requirements.				
4.9	Prior to disposal of C&D waste. It is recommended that wood, steel and other metals shall be separated for re-use and / or recycling to minimise the quantity of waste to be disposed of to landfill.				
4.10	Proper storage and site practices to minimise the potential for damage or contamination of construction materials.	/			
4.11	Plan use of construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste.	/			

Recorded by: Edward Date: 11 / 2,27 (Environmental Monitoring Team)

Signature:

Follow up by: Jackle) i Date: 8/11/2014 (Contractor's representative)

Signature:



Ecosystems Ltd.

生態系統顧問有限公司

Environmental Monitoring Works for Lung Kwu Chau Jetty Repair Works

Environmental Checklist for Site Audit

Date:

15/11/2024

Time:

14=57

Weather:

Rainy

Audit No:

008

Paling) • ()
ltem	Environmental Protection Measures /		ement		Action / Remarks
	Mitigation Measures	Υ	N	NA	
	us follow up action				
1.1	Are previous follow up actions implemented and accepted?			/	
Measu	re / Practice to be implemented				
2.1	Is the Environmental Permit displayed at the entrance of construction site?	/			
2.2	Is Permit under s11 of Cap. 476A for the anchorage works obtained?	/			
2.3	Is MDN for the proposed reinstatement works obtained?	/			
2.4	Is the site kept clean and tidy?	1			
2.5	Is the site free from wastewater discharge to the sea?	/			
2.6	Are there any measures to prevent leaked oil/chemical from entering the sea?	/			
2.7	Is the site free from general waste (from construction worker) with reasonable condition?	1			
2.8	Are there any measures to collect spilt cement and concrete washings during concreting works?			/	
2.9	Are construction solid waste, debris and rubbish (from construction activities) on site collected, handled and disposed of properly to avoid water quality impacts?	/			
2.11	Is the 24-hour guard boat present around the Jetty?	11			
2.12	Is the double layer of floating type silt curtain adopted?				
2.13	Are there spare silt curtains ready on site?	1			
2.14	Are steel drag anchors adopted for the derrick lighter?				
2.15	Are the armour rock stored properly at the hopper of derrick lighter?			1	
2.16	Are the broken slab stored properly at the hopper of derrick lighter?	1			
2.17	Is the repair works area fenced off for maintaining an access for other's use?				
2.18	Is there any foundation of slab interrupted?		/		
2.19	Is quieter machinery being used (e.g. silenced breaker)?				
2.20	Is there any blasting work observed?				
2.21	Are lifting eyes installed to the concrete blocks, if the existing lifting holes are missing?			/	-
2.22	All pipe leakages shall be repaired promptly, and plant shall not be operated with leaking pipes.			/	

Item	Environmental Protection Measures /	Imp	lement	ation	Action / Remarks
	Mitigation Measures	Υ	N	NA	71011011711011111111
2.23	The decks of all vessels shall be kept tidy and free of oil or	<u> </u>			
	other substances that might be accidentally or otherwise	/			
	washed overboard.				
2.24	Adequate freeboard (i.e. minimum of 200mm) shall be	 			
	maintained on barges to ensure that decks are not washed	/			
	by wave action.	/			
2.25	All hopper barges shall be fitted with tight fitting seals to				
2.20	their bottom openings to prevent leakage of materials	/			
2.26	Construction activities shall not cause foam, oil, grease,	/	1		
2.20	scum, litter or other objectionable matter to be present on	/			
	the water within the site or dumping grounds.				
2.27	Loading of barges and hopper barges shall be controlled to				
2.21	prevent splashing of material into the surrounding water.				
	Barges or hopper barges shall not be filled to a level that will	/			
	cause the overflow of materials or sediment laden water		1		
	l .			ľ	i _
Mitigat	during loading or transportation. tion Measures on Marine Park			<u> </u>	
					
3.1	No signs of fishing, hunting and collecting animals and	/			
2.2	plant or its part.	 			
3.2	Check the work site boundaries regularly to ensure that no	/			
^ ^	damage occurs to surrounding natural habitats.	 	-	-	-
3.3	Prohibit and prevent open fires within the work site boundary	/			
	during construction and provide temporary firefighting	1			
	equipment in the work areas.				
3.4	Reinstate temporary work sites/disturbed areas immediately	Î		/	,
	after completion of the construction.			1	
3.5	The use of high-speed vessels in the construction or				
	operation of the jetty shall be avoided where possible. If high				
	speed vessels must be used, they shall be required to slow			j	
	to under 10 knots which is the speed restriction for all marine	-			
	traffic inside the Marine Park Boundary. Furthermore, marine	/			
	traffic entering the Marine Park to the proposed jetty area				
	shall follow a regular and predictable route.			l	
3.6	All vessel operators working on the project shall be given a				
	briefing, alerting them to the conservation significance of the				
	Marine Park.				
3.7	A policy of no dumping of rubbish, food, oil, or chemicals	,			
	shall be strictly enforced. This shall also be covered in the				
	contractor briefing.				
Good S	Site Practices and Waste Reduction Measures				
4.1	Nomination of an approved personnel, such as a site agent,				
	to be responsible for good site practices, arrangements for				
	collection and effective disposal to an appropriate facility,	/			
	of all wastes generated at the site.				
4.2	Training of site personnel in proper waste management	1			
	procedures.				
4.3	High standards of waste management shall be observed on	1			
	the works vessels and barges to ensure that no waste	/			
	arisings or fuel/diesel oils are disposed to the surrounding				
	marine waters.	1	and a second		
4.4	No C&D materials and machinery fuels enter the marine	/	1	 	
	waters at the site;	/	***************************************		
4.5	No stockpiles of construction material shall be permitted	 			
-+.J					
4.6	on Lung Kwu Chau Island outside project site bound.	+	 		
4.6	All wastes, unused construction materials and construction			/	
	equipment shall be removed from Lung Kwu Chau Island				
4 7	after the works are completed.	-	 	-	
4.7	A recording system for the number of wastes generated,				
	recycled and disposed of including the disposal sites.	Care			

Item	Environmental Protection Measures /		ement	ation	Action / Remarks
	Mitigation Measures	Υ	N	NA	
4.8	In order to monitor the disposal of C&D materials at public				
	filling areas, and to control fly-tipping, a trip-ticket system	/			
	shall be included as one of the contractual requirements.				
4.9	Prior to disposal of C&D waste. It is recommended that				
	wood, steel and other metals shall be separated for re-use				
	and / or recycling to minimise the quantity of waste to be				
	disposed of to landfill.				
4.10	Proper storage and site practices to minimise the potential	/			
	for damage or contamination of construction materials.				
4.11	Plan use of construction materials carefully to minimise				
	amount of waste generated and avoid unnecessary	/			
	generation of waste.				

Recorded by:

Ant low

Date: 15/11/2024 (Environmental Monitoring Team)

Signature:

Signature:



Ecosystems Ltd.

生態系統顧問有限公司

Environmental Monitoring Works for Lung Kwu Chau Jetty Repair Works

Environmental	Checklist for	Site Audit
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Date: vi/11/2024

Time: 10 :00

Weather:

Audit No: 009

Item	Environmental Protection Measures /	Impl	ement	ation	Action / Remarks
	Mitigation Measures	Υ	N	NA	
Previo	us follow up action				
1.1	Are previous follow up actions implemented and accepted?			/	
Measu	re / Practice to be implemented				
2.1	Is the Environmental Permit displayed at the entrance of	,			
	construction site?				
2.2	Is Permit under s11 of Cap. 476A for the anchorage works				
	obtained?				
2.3	Is MDN for the proposed reinstatement works obtained?	/			
2.4	Is the site kept clean and tidy?				
2.5	Is the site free from wastewater discharge to the sea?	/			
2.6	Are there any measures to prevent leaked oil/chemical from				
	entering the sea?				
2.7	Is the site free from general waste (from construction	/			
	worker) with reasonable condition?				
2.8	Are there any measures to collect spilt cement and			1	
	concrete washings during concreting works?				
2.9	Are construction solid waste, debris and rubbish (from				
	construction activities) on site collected, handled and	1			
	disposed of properly to avoid water quality impacts?				
2.11	Is the 24-hour guard boat present around the Jetty?				
2.12	Is the double layer of floating type silt curtain adopted?	/			
2.13	Are there spare silt curtains ready on site?				
2.14	Are steel drag anchors adopted for the derrick lighter?				
2.15	Are the armour rock stored properly at the hopper of derrick			/	
	lighter?				
2.16	Are the broken slab stored properly at the hopper of derrick	/			
	lighter?				
2.17	Is the repair works area fenced off for maintaining an access	/			
	for other's use?				
2.18	Is there any foundation of slab interrupted?				
2.19	Is quieter machinery being used (e.g. silenced breaker)?	/			
2.20	Is there any blasting work observed?		/		
2.21	Are lifting eyes installed to the concrete blocks, if the			/	
	existing lifting holes are missing?			_	
2.22	All pipe leakages shall be repaired promptly, and plant shall				
	not be operated with leaking pipes.				

Item	Environmental Protection Measures /	laml	ement	ation	Action / Remarks
	Mitigation Measures	Υ	N	NA	
2.23	The decks of all vessels shall be kept tidy and free of oil or				
	other substances that might be accidentally or otherwise				
	washed overboard.				
2.24	Adequate freeboard (i.e. minimum of 200mm) shall be				
	maintained on barges to ensure that decks are not washed				
	by wave action.				
2.25	All hopper barges shall be fitted with tight fitting seals to				
2.25	their bottom openings to prevent leakage of materials				
2.26	Construction activities shall not cause foam, oil, grease,			 	
2.26					
	scum, litter or other objectionable matter to be present on	/			
	the water within the site or dumping grounds.	V			
2.27	Loading of barges and hopper barges shall be controlled to				
	prevent splashing of material into the surrounding water.				
	Barges or hopper barges shall not be filled to a level that will	./			
	cause the overflow of materials or sediment laden water				
	during loading or transportation.				
Mitigat	tion Measures on Marine Park				
3.1	No signs of fishing, hunting and collecting animals and	/			
	plant or its part.	V			
3.2	Check the work site boundaries regularly to ensure that no	/			
	damage occurs to surrounding natural habitats.	V			
3.3	Prohibit and prevent open fires within the work site boundary				
	during construction and provide temporary firefighting	./			
	equipment in the work areas.				
3.4	Reinstate temporary work sites/disturbed areas immediately			. /	
	after completion of the construction.				\$ 15 m
3.5	The use of high-speed vessels in the construction or			1	A State of
0.0	operation of the jetty shall be avoided where possible. If high				
	speed vessels must be used, they shall be required to slow				
	to under 10 knots which is the speed restriction for all marine	/			
	traffic inside the Marine Park Boundary. Furthermore, marine		-		
	traffic entering the Marine Park to the proposed jetty area	i			
2 .	shall follow a regular and predictable route.			-	
3.6	All vessel operators working on the project shall be given a	/			
	briefing, alerting them to the conservation significance of the				
	Marine Park.	-	-		
3.7	A policy of no dumping of rubbish, food, oil, or chemicals	/			
	shall be strictly enforced. This shall also be covered in the				
	contractor briefing.	-			
	Site Practices and Waste Reduction Measures		ļ	<u> </u>	
4.1	Nomination of an approved personnel, such as a site agent,				
	to be responsible for good site practices, arrangements for	-			
	collection and effective disposal to an appropriate facility,				
	of all wastes generated at the site.				
4.2	Training of site personnel in proper waste management				
	procedures.				
4.3	High standards of waste management shall be observed on				
	the works vessels and barges to ensure that no waste				
	arisings or fuel/diesel oils are disposed to the surrounding	1			
	marine waters.				
4.4	No C&D materials and machinery fuels enter the marine				
	waters at the site;				
4.5	No stockpiles of construction material shall be permitted			 	
	on Lung Kwu Chau Island outside project site bound.	1			
4.6	All wastes, unused construction materials and construction				
7.0	equipment shall be removed from Lung Kwu Chau Island			1./	
	after the works are completed.				
		1	1	1	
17					
4.7	A recording system for the number of wastes generated, recycled and disposed of including the disposal sites.				

Item	Environmental Protection Measures /	Implementation			Action / Remarks
	Mitigation Measures	Υ	N	NA	
4.8	In order to monitor the disposal of C&D materials at public filling areas, and to control fly-tipping, a trip-ticket system shall be included as one of the contractual requirements.				
4.9	Prior to disposal of C&D waste. It is recommended that wood, steel and other metals shall be separated for re-use and / or recycling to minimise the quantity of waste to be disposed of to landfill.			1	
4.10	Proper storage and site practices to minimise the potential for damage or contamination of construction materials.	/			
4.11	Plan use of construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste.	/			

Recorded by: Ant (am
Date: 72/11/2024
(Environmental Monitoring Team)

Signature:

Follow up by: Jakie Ji
Date: 22/11/224
(Contractor's representative)

Signature:



Ecosystems Ltd.

生態系統顧問有限公司

Environmental Monitoring Works for Lung Kwu Chau Jetty Repair Works

Environmental Checklist for Site Audit

Date:

29/11/2024

Time: 9-46

Weather:

FLILLING

Audit No: 00

Item	Environmental Protection Measures /	Imp	lement	ation	Action / Remarks
	Mitigation Measures	Υ	N	NA	
Previo	us follow up action			,	
1.1	Are previous follow up actions implemented and accepted?				
Measu	re / Practice to be implemented				
2.1	Is the Environmental Permit displayed at the entrance of				
	construction site?	V			
2.2	Is Permit under s11 of Cap. 476A for the anchorage works	V			
	obtained?				
2.3	Is MDN for the proposed reinstatement works obtained?	V			
2.4	Is the site kept clean and tidy?	V			
2.5	Is the site free from wastewater discharge to the sea?	V			
2.6	Are there any measures to prevent leaked oil/chemical from	/			
	entering the sea?	ļ.,			
2.7	Is the site free from general waste (from construction				
	worker) with reasonable condition?			-	
2.8	Are there any measures to collect spilt cement and			//	
0.0	concrete washings during concreting works?			-	
2.9	Are construction solid waste, debris and rubbish (from				
	construction activities) on site collected, handled and				
0.44	disposed of properly to avoid water quality impacts?				
2.11	Is the 24-hour guard boat present around the Jetty?				
2.12	Is the double layer of floating type silt curtain adopted?	V			
2.13	Are there spare silt curtains ready on site?	V			
2.14	Are steel drag anchors adopted for the derrick lighter?		V		
2.15	Are the armour rock stored properly at the hopper of derrick lighter?	IH		i/	
2.16	Are the broken slab stored properly at the hopper of derrick	41.		<i>V</i>	
	lighter?	/			
2.17	Is the repair works area fenced off for maintaining an access	/			
	for other's use?	V			
2.18	Is there any foundation of slab interrupted?		V		
2.19	Is quieter machinery being used (e.g. silenced breaker)?	1/			
2.20	Is there any blasting work observed?	-	1		
2.21	Are lifting eyes installed to the concrete blocks, if the		V		
	existing lifting holes are missing?			V	
2.22	All pipe leakages shall be repaired promptly, and plant shall			1/	
	not be operated with leaking pipes.				

Item	Environmental Protection Measures /	Impl	ement	ation	Action / Remarks
	Mitigation Measures	Υ	N	NA	
2.23	The decks of all vessels shall be kept tidy and free of oil or		***************************************		
	other substances that might be accidentally or otherwise				
	washed overboard.				
2.24	Adequate freeboard (i.e. minimum of 200mm) shall be				
	maintained on barges to ensure that decks are not washed	/			
	by wave action.				
2.25	All hopper barges shall be fitted with tight fitting seals to				
	their bottom openings to prevent leakage of materials				
2.26	Construction activities shall not cause foam, oil, grease,				
0	scum, litter or other objectionable matter to be present on				
	the water within the site or dumping grounds.				
2.27	Loading of barges and hopper barges shall be controlled to				
2.21	prevent splashing of material into the surrounding water.				
	Barges or hopper barges shall not be filled to a level that will	V			'5
	cause the overflow of materials or sediment laden water				
	during loading or transportation.				
	tion Measures on Marine Park	 			
3.1	No signs of fishing, hunting and collecting animals and				
	plant or its part.	 		·	
3.2	Check the work site boundaries regularly to ensure that no				
	damage occurs to surrounding natural habitats.				
3.3	Prohibit and prevent open fires within the work site boundary	/			
	during construction and provide temporary firefighting	1			
	equipment in the work areas.				
3.4	Reinstate temporary work sites/disturbed areas immediately				/
	after completion of the construction.				
3.5	The use of high-speed vessels in the construction or				
	operation of the jetty shall be avoided where possible. If high				
	speed vessels must be used, they shall be required to slow				
	to under 10 knots which is the speed restriction for all marine				
	traffic inside the Marine Park Boundary. Furthermore, marine				
	traffic entering the Marine Park to the proposed jetty area	V			
	shall follow a regular and predictable route.				
2.6		 		 	4.000
3.6	All vessel operators working on the project shall be given a				
	briefing, alerting them to the conservation significance of the	1			
	Marine Park.	ļ		-	
3.7	A policy of no dumping of rubbish, food, oil, or chemicals				
	shall be strictly enforced. This shall also be covered in the	1/			
	contractor briefing.			ļ	
Good	Site Practices and Waste Reduction Measures				
4.1	Nomination of an approved personnel, such as a site agent,				
	to be responsible for good site practices, arrangements for				
	collection and effective disposal to an appropriate facility,	V			
	of all wastes generated at the site.				
4.2	Training of site personnel in proper waste management				
	procedures.	V			
4.3	High standards of waste management shall be observed on				
	the works vessels and barges to ensure that no waste				
	arisings or fuel/diesel oils are disposed to the surrounding	1			
	marine waters.		-		
4.4	No C&D materials and machinery fuels enter the marine		1		
	waters at the site;	1			
15	No stockpiles of construction material shall be permitted	-	 		
4.5		1			
	on Lung Kwu Chau Island outside project site bound.	 	-		
4.6	All wastes, unused construction materials and construction			1. /	
	equipment shall be removed from Lung Kwu Chau Island			V	
	after the works are completed.	1	/	-	
4.7	A recording system for the number of wastes generated,		/		
	recycled and disposed of including the disposal sites.	1 1 /	1		

item	Environmental Protection Measures /	Imple	ement	ation	Action / Remarks
	Mitigation Measures	Y	N	NA	
4.8	In order to monitor the disposal of C&D materials at public filling areas, and to control fly-tipping, a trip-ticket system shall be included as one of the contractual requirements.	V			
4.9	Prior to disposal of C&D waste. It is recommended that wood, steel and other metals shall be separated for re-use and / or recycling to minimise the quantity of waste to be disposed of to landfill.				
4.10	Proper storage and site practices to minimise the potential for damage or contamination of construction materials.	V			
4.11	Plan use of construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste.	V			

Recorded by: Ant low Date: 29/11/2014 (Environmental Monitoring Team)

Signature:

Follow up by: Jakie);
Date: Jakie);
(Contractor's representative)

Signature:

Appendix G Schedule of Water Quality Monitoring in December 2024

Monitoring Date	1st Tide Monitoring	2nd Tide Monitoring
2/12/2024 (Mon)	9:00 Mid-Flood	14:00 Mid-Ebb
4/12/2024 (Wed)	10:00 Mid-Flood	15:00 Mid-Ebb
#* 6/12/12024 (Fri)	12:00 Mid-Flood	17:00 Mid-Ebb
9/12/2024 (Mon)	8:00 Mid-Ebb	14:00 Mid-Flood
11/12/2024 (Wed)	9:00 Mid-Ebb	15:00 Mid-Flood
* 13/12/2024 (Fri)	11:00 Mid-Ebb	17:00 Mid-Flood
16/12/2024 (Mon)	9:00 Mid-Flood	14:00 Mid-Ebb
18/12/2024 (Wed)	10:00 Mid-Flood	15:00 Mid-Ebb
* 20/12/2024 (Fri)	12:00 Mid-Flood	17:00 Mid-Ebb
* 23/12/2024 (Mon)	8:00 Mid-Ebb	13:00 Mid-Flood
27/12/2024 (Fri)	11:00 Mid-Ebb	16:00 Mid-Flood
30/12/2024 (Mon)	8:00 Mid-Flood	13:00 Mid-Ebb

^{*} Tentative Site Inspection date # Tentative Joint Site Inspection date