

Contract No. EP/SP/66/12
Integrated Waste Management Facilities, Phase 1
28th Quarterly EM&A Report



Quarterly EM&A Report No.28 (Period from 1 April to 30 June 2025)

(Clause 3.3, Further Environmental Permit FEP-01/429/2012/A)

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A	First Submission	21 July 2025
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EXECUTIVE SUMMARY

- A1. The Project, Integrated Waste Management Facility (IWMF), is a Designated Project under the Environmental Impact Assessment Ordinance (Cap. 499) (EIAO) and is currently governed by a Further Environmental Permit (FEP No. FEP-01/429/2012/A) for the construction and operation of the Project.
- A2. In accordance with the Updated Environmental Monitoring and Audit (EM&A) Manual for the Project, EM&A works for marine water quality, noise, waste management and ecology should be carried out by Environmental Team (ET), Acuity Sustainability Consulting Limited (ASCL), during the construction phase of the Project.
- A3. This is the 28th Quarterly EM&A Report, prepared by ASCL, for the Project summarizing and concluding the monitoring results and audit findings of the EM&A programme at and around Shek Kwu Chau (SKC) during the reporting period from 1 April 2025 to 30 June 2025.
- A4. The EM&A works for construction noise, construction waste, coral and White-Bellied Sea Eagle (WBSE) were conducted during the reporting period in accordance with the Updated EM&A Manual.
- A5. Weekly site inspections of the construction works were carried out by ET to audit the mitigation measures implementation status. Monthly joint site inspections were carried out by ET and IEC.
- A6. As confirmed with Contractor, no marine construction work is scheduled from December 2024 to June 2025 tentatively. An updated EM&A arrangement for temporary suspension of water quality and line-transect monitoring from February to June 2025 was submitted to EPD on 13 December 2024. EPD advised no objection on the suspension on 25 February 2025. The water quality and line-transect monitoring were then temporarily suspended from 25 February 2025 onward.

1. BASIC PROJECT INFORMATION

1.1. The Reporting Scope

1.1.1 This is the 28th Quarterly EM&A Report for the Project which summarizes the key findings of the EM&A programme during the reporting period from 1 April 2025 to 30 June 2025.

1.2. Project Organization

1.2.2 The Project Organization structure for Construction Phase is presented in **Figure 1.1**.

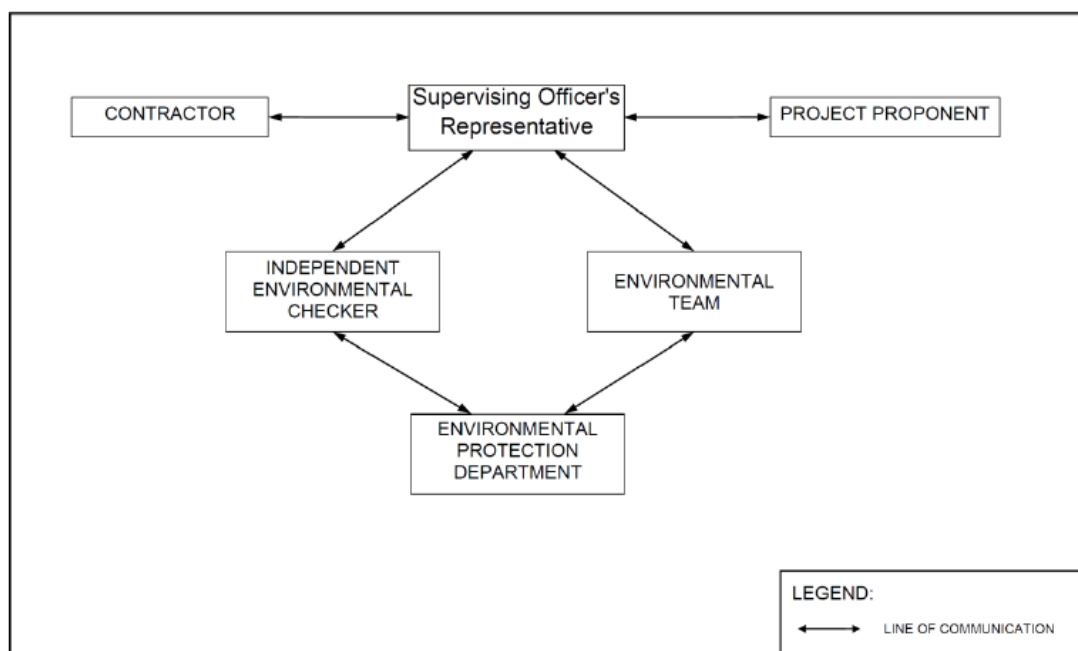


Figure 1.1 Project Organization Chart

1.2.3 Contact details of the key personnel are presented in **Table 1.1** below:

Table 1.1 Contact Details of Key Personnel

Party	Position	Name	Telephone no.
Environmental Protection Department	Project Proponent	Cheng Tak-Kuen	2594-6111
Keppel Seghers – Zhen Hua Joint Venture	Project Manager	Peter Chung	2192-0603
Acuity Sustainability Consulting Limited	Environmental Team Leader	F.C. Tsang	2698-6833
ERM-Hong Kong, Limited	Independent Environmental Checker	Mandy To	2271-3000

1.3. Summary of Construction Works

1.3.1 Details of the major construction activities undertaken in this reporting period are shown in **Table 1.2** below. The construction programme is presented in **Appendix A**.

Table 1.2 Summary of the Construction Activities Undertaken during the Reporting Period

Location of works	Construction activities undertaken	Remarks on progress
Reclamation area	• Superstructure construction	• On-going
Seawall portion	• Caisson extension works, from +3mPD to +6mPD, at Seawall A and B • Construction of wave wall along the vertical seawall above +3mPD	• On-going • On-going

1.3.2 The status for all environmental aspects is presented in **Table 1.3**.

Table 1.3 Summary of Status for Key Environmental Aspects under the Updated EM&A Manual

Parameters	Status
Water Quality	
Baseline Monitoring under Updated EM&A Manual and Detailed Plan on DCM	The baseline water quality monitoring result has been reported in Baseline Monitoring Report and submitted to EPD under FEP Condition 3.4
Impact Monitoring	As confirmed with Contractor, no marine construction work is scheduled from December 2024 to June 2025 tentatively. An updated EM&A arrangement for temporary suspension of water quality and line-transect monitoring from February to June 2025 was submitted to EPD on 13 December 2024. EPD advised no objection on the suspension on 25 February 2025. The water quality and line-transect monitoring were then temporarily suspended from 25 February 2025 onward. A two-week advance notice will be made by the Contractor prior to resumption of marine construction works. The water quality monitoring and line-transection monitoring will be resumed upon the resumption of marine construction works. ET will notify the resumption of marine construction works with updated EM&A schedule within one day after receiving the notification from contractor.
Regular DCM Monitoring	All DCM was completed on 14 October 2020, regular DCM monitoring for further 4 weeks (i.e from 16 October 2020 to 14 November 2020) was completed according to the approved Detailed Plan on Deep Cement Mixing
Initial Intensive DCM Monitoring	Conducted from 11 February 2019 to 10 March 2019, had not been resumed since there was no DCM related parameter exceeding the AL/LL.
Baseline Water Quality of wet season	Completed over 13 August 2018 to 7 September 2018
Noise	
Baseline Monitoring	The baseline noise monitoring result has been reported in Baseline Monitoring Report and submitted to EPD under FEP Condition 3.4
Impact Monitoring	On-going
Waste Management	
Mitigation Measures in Waste Monitoring Plan	On-going
Coral	
Pre-translocation Survey and Coral Mapping	The Coral Translocation Plan was submitted and approved by EPD under EP Condition 2.12
Coral Translocation	Completed on 28 March 2018
Post-Translocation Coral Monitoring	Survey affected by missing of translocated and tagged coral colonies after typhoons in September 2018, completed on 28 March 2019.
Pre-construction Coral Survey and Tagging	Completed on 26 June 2018
Tagged Coral Monitoring	Survey obstructed due to missing of tagged coral colonies after typhoons in September 2018

Parameters	Status
Coral Survey and Re-tagging	Re-tagging at Indirect Impact Site was conducted on 23 November and Re-tagging at Control Site was conducted on 3 December 2018.
Post Re-tagging Coral Quarterly Monitoring	On-going
Marine Mammal	
Vessel-based Line-transect Survey Baseline Monitoring	The baseline marine mammal monitoring result has been reported in Baseline Monitoring Report and submitted to EPD under FEP Condition 3.4
Vessel-based Line-transect Survey Impact Monitoring	Temporarily suspended since 25 February 2025, as no marine construction works as defined in the approved EIA report (AEIAR-163/2012) and the Updated EM&A Manual was conducted in this reporting period.
Land-based Theodolite Tracking	30 days of theodolite surveys were started on 21 Feb 2019 and completed in May 2019.
Passive Acoustic Monitoring	30 days of PAM surveys were started on 1 May 2019 and completed at the end of May 2019.
White-bellied Sea Eagle	
Baseline Monitoring	The baseline WBSE monitoring result has been reported in Baseline Monitoring Report and submitted to EPD under FEP Condition 3.4
Impact Monitoring	On-going
Environmental Audit	
Site Inspection covering Measures of Air Quality, Noise Impact, Water Quality, Waste, Ecological Quality, Fisheries, Landscape and Visual	On-going
Mitigation Measures in Marine Mammal Watching Plan (MMWP)	Installation of caisson No.19 was completed on 18 March 2021, which the reclamation area had been totally enclosed by permanent structure. Floating type silt curtain at marine access was removed on 18 March 2021. No enclosed area shall be formed by deployment of silt curtain for the remaining works programme.
Mitigation Measures in Detailed Monitoring Programme on Finless Porpoise (DMPFP)	Installation of caisson No.19 was completed on 18 March 2021, which the reclamation area had been totally enclosed by permanent structure. Floating type silt curtain at marine access was removed on 18 March 2021. No enclosed area shall be formed by deployment of silt curtain for the remaining works programme.
Mitigation Measures in Vessel Travel Details	On-going
Daily Site Audit and Monitoring for Dredging Work	Completed

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

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

2. MARINE WATER QUALITY MONITORING

2.1 Water Quality Parameters

- 2.1.1 Measurement of Dissolved Oxygen (DO), Turbidity, Suspended Solids (SS), Salinity and pH have been undertaken at the eleven monitoring stations during general water quality monitoring.
- 2.1.2 DO, temperature, salinity, turbidity and pH were measured in-situ and the SS was assayed in a HOKLAS laboratory.
- 2.1.3 In associate with the water quality parameters, other relevant data were also measured, such as monitoring location/position, time, water depth, sampling depth, tidal stages, weather conditions and any special phenomena or work underway nearby were also recorded.
- 2.1.4 Impact water quality monitoring was conducted 3 days per week in the reporting period. All parameters were monitored during mid-flood and mid-ebb tides at three water depths for water quality monitoring. The interval between two sets of monitoring has not been less than 36 hours.
- 2.1.5 **Table 2.1** summarizes the monitoring parameters, frequency and duration of the impact water quality monitoring.

Table 2.1 Water Quality Monitoring Parameters, Frequency and Duration

Parameter, unit	Frequency	No. of Depths
- Water Depth(m) - Temperature(°C) - Salinity(ppt) - pH (pH unit) - Dissolved Oxygen (DO)(mg/L and % of saturation) - Turbidity(NTU) - Suspended Solids (SS), mg/L - Current velocity (m/s) - Direction (in NESW)	General water quality monitoring: 3 days per week, at mid-flood and mid-ebb tides	3 water depths: 1m below sea surface, mid-depth and 1m above sea bed. If the water depth is less than 3m, mid-depth sampling only. If water depth is less than 6m, mid-depth may be omitted.

2.2 Water Quality Monitoring Locations

- 2.2.1 Impact water quality monitoring was conducted at eleven monitoring locations (i.e. B1-B4, H1, C1A, C2A, F1A, CR1, CR2 and M1) during general water quality monitoring as shown in **Figure 2.1**.

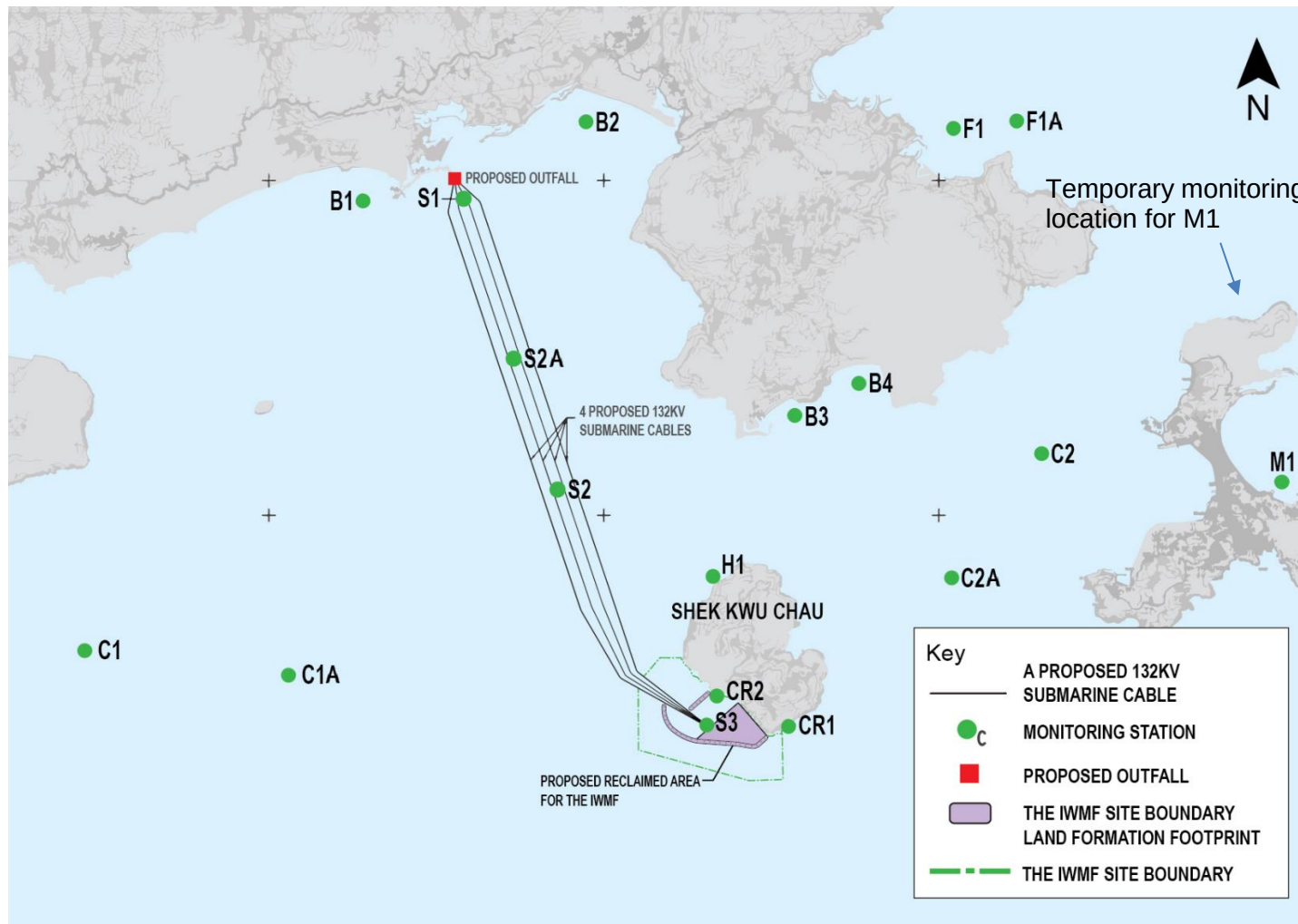


Figure 2.1 Water monitoring locations at Artificial Island near SKC

2.3 Action and Limit Levels

2.3.1 Based on the baseline monitoring data and the derivation criteria presented in the Baseline Monitoring Report, the Action/Limit Levels have been derived and are presented in **Table 2.2** and **Table 2.3** for both dry seasons (October – March) and wet seasons (April – September).

Table 2.2 Derived Action and Limit Levels for Water Quality Monitoring (Dry Season)

Parameters	Action	Limit
Construction Phase Impact Monitoring		
DO in mg/L	≤ 7.13	≤ 4
SS in mg/L	≥ 8 or 120% of control station's SS at the same tide of the same day of measurement, whichever is higher	≥ 10 or 130% of control station's SS at the same tide of the same day of measurement, whichever is higher
Turbidity in NTU	≥ 5.6 or 120% of control station's turbidity at the same tide of the same day of measurement, whichever is higher	≥ 12.81 or 130% of control station's turbidity at the same tide of the same day of measurement, whichever is higher
Temperature in °C	1.8°C above the temperature recorded at representative control station at the same tide of the same day	2°C above the temperature recorded at representative control station at the same tide of the same day

Notes:

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

Table 2.3 Derived Action and Limit Levels for Water Quality (Wet Season)

Parameters	Action	Limit
Construction Phase Impact Monitoring		
DO in mg/L	≤ 5.28	≤ 4
SS in mg/L	≥ 12 or 120% of control station's SS at the same tide of the same day of measurement, whichever is higher	≥ 14 or 130% of control station's SS at the same tide of the same day of measurement, whichever is higher
Turbidity in NTU	≥ 4.0 or 120% of control station's turbidity at the same tide of the same day of measurement, whichever is higher	≥ 4.3 or 130% of control station's turbidity at the same tide of the same day of measurement, whichever is higher
Temperature in °C	1.8°C above the temperature recorded at representative control station at the same tide of the same day	2°C above the temperature recorded at representative control station at the same tide of the same day

Notes:

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

2.4 Monitoring Results and Observations

2.4.1 As confirmed by the Contractor on 14 October 2020, all DCM works was completed on 14 October 2020, the post DCM water quality monitoring was completed for further 4 weeks (i.e. from 16 October 2020 to 14 November 2020) according to the approved Detailed Plan on Deep Cement Mixing. As all DCM work and post DCM water quality monitoring were completed, no water quality monitoring was conducted at S1, S2A and S3 from 14 November 2020 onward.

2.4.2 As confirmed with Contractor, no marine construction work is scheduled from December 2024 to June 2025 tentatively. An updated EM&A arrangement for temporary suspension of water quality and line-transect monitoring from February to June 2025 was submitted to EPD on 13 December 2024. EPD advised no objection on the suspension on 25 February 2025. The water quality and line-transect monitoring were then temporarily suspended from 25 February 2025 onward. A two-week advance notice will be made by the Contractor prior to resumption of marine construction works. The water quality monitoring and line-transection monitoring will be resumed upon the resumption of marine construction works. ET will notify the resumption of marine construction works with updated EM&A schedule within one day after receiving the notification from contractor.

3. NOISE MONITORING

3.1 Noise Monitoring Parameters

- 3.1.1 Impact noise monitoring was conducted weekly in the reporting period between 0700 and 1900 hours on normal weekdays. Additional impact noise monitoring was conducted weekly in the reporting period between 1900 and 0700 hours on all days as well as public holidays and Sundays.
- 3.1.2 Construction noise level measured in terms of the A-weighted equivalent continuous sound pressure level (L_{Aeq}). $L_{eq\ 30min}$ was used as the monitoring parameter for the time period between 0700 and 1900 hours on normal weekdays. $L_{eq\ 5min}$ was used as the monitoring parameter for the time period between 1900 and 0700 hours as well as public holidays and Sundays. **Table 3.1** summarizes the monitoring parameters, frequency and duration of the impact noise monitoring and additional impact noise monitoring.

Table 3.1 Noise Monitoring Parameters, Time, Frequency and Duration

Monitoring Station	Time	Duration	Parameters
M1/ N_S1, M2/ N_S2, M3/ N_S3	Day time: 0700-1900 hrs (during normal weekdays)	Once per week $L_{eq\ 5min}/L_{eq\ 30min}$ (average of 6 consecutive $L_{eq\ 5min}$)	L_{eq} , L_{10} & L_{90}
	Evening time: 1900-2300 hrs (including normal weekdays, also public holidays and Sundays)	Once per week $L_{eq\ 5min}$ (3 sets of $L_{eq\ 5min}$)	L_{eq} , L_{10} & L_{90}
	Night time: 2300-0700 hrs (including normal weekdays, also public holidays and Sundays)	Once per week $L_{eq\ 5min}$ (3 sets of $L_{eq\ 5min}$)	L_{eq} , L_{10} & L_{90}

3.2 Noise Monitoring Locations

- 3.2.1 Three noise monitoring locations for impact monitoring and additional impact monitoring at the nearby sensitive receivers are shown in **Figure 3.1**

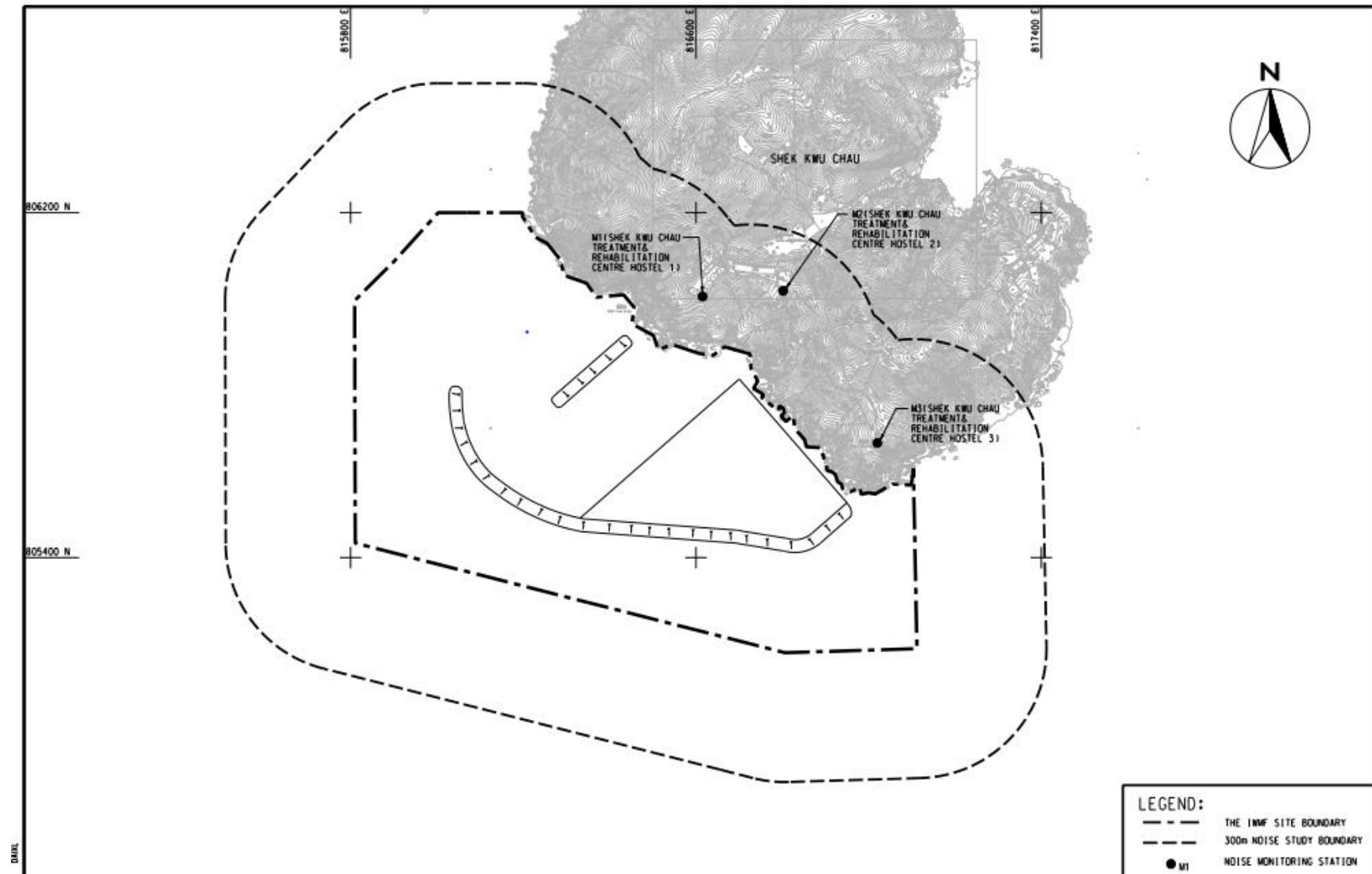


Figure 3.1 Noise monitoring locations at SKC

3.2.2 M1, M2 and M3 are Shek Kwu Chau Treatment and Rehabilitation Centre Hostel 1, 2 and 3 respectively of The Society for the Aid and Rehabilitation of Drug Abusers (SARDA) located at southern part of Shek Kwu Chau.

3.2.3 Measurements at M1 & M3 were conducted at a point 1m from the exterior of the sensitive receivers building façade and at a position 1.2m above the ground. Measurement setup at M3 has been varying with minor adjustment to minimize the disturbance to the users of Treatment Centre. Measurement at M2 was conducted at a point 1m from building façade of the ceiling of 1st floor level for avoidance of mutual disturbance with users of Treatment Centre. The minor adjustment of monitoring locations, which were in favour to mutual convenience with the users of Treatment Centre, were found with no effect on monitoring result based on on-site observation and experience from the Baseline monitoring of the Project.

3.2.4 The noise monitoring stations are summarized in **Table 3.2** below.

Table 3.2 Noise Monitoring Location

Station	NSR ID in EIA Report	Noise Monitoring Location	Type of sensitive receiver(s)	Measurement Type
M1	N_S1	Shek Kwu Chau Treatment & Rehabilitation Centre Hostel 1	Residential	Façade
M2	N_S2	Shek Kwu Chau Treatment & Rehabilitation Centre Hostel 2	Residential	Façade
M3	N_S3	Shek Kwu Chau Treatment & Rehabilitation Centre Hostel 3	Residential	Façade

3.3 Action and Limit Levels

3.3.1 The Action/Limit Levels in line with the criteria of Practice Note for Professional Persons (ProPECC PN 2/93) “Noise from Construction Activities – Non-statutory Controls” and Technical Memorandum on Environmental Impact Assessment Process issued by HKSAR Environmental Protection Department [“EPD”] under the Environmental Impact Assessment Ordinance, Cap 499, S.16 is presented in **Table 3.3**.

Table 3.3 Action and Limit Levels for Noise per Updated EM&A Manual

Time Period	Action	Limit (dB(A))
0700-1900 hrs on normal weekdays	When one documented complaint is received	75 dB(A)

Notes: If works are to be carried out during restricted hours, the conditions stipulated in the Construction Noise Permit (CNP) issued by the Noise Control Authority have to be followed.

3.4 Monitoring Results and Observations

3.4.1 Impact monitoring for noise impact for daytime was conducted in the reporting period. The impact noise levels at Noise Monitoring Stations at SKC (i.e. M1/ N_S1 to M3/ N_S3) are summarized in **Table 3.5**. Additional impact monitoring during restricted hours was conducted in the reporting period. The additional impact noise levels at Noise Monitoring Stations at SKC (i.e. M1/ N_S1 to M3/ N_S3) are summarized in **Table 3.6** and **Table 3.7** respectively. Trending of the noise monitoring results is presented graphically in **Appendix C**.

- 3.4.2 Major construction activity, major noise source and extreme weather which might affect the results were recorded during the impact monitoring.
- 3.4.3 According to our field observations, the major noise source identified at the noise monitoring station in the reporting quarter are summarised in **Table 3.4**. Sound from the intermittent piling work was the noticeable noise source for monitoring stations M1, M2 and M3. Air conditioning units were also observed at station M3 during the impact monitoring.

Table 3.4 Summary of Field Observation

Monitoring Station	Major Noise Source
M1	NA
M2	NA
M3	Operation of nearby Air Quality Monitoring Station

- 3.4.4 No data from impact monitoring during daytime had exceeded the stipulated limit level at 75 dB(A).

Table 3.5 Summary of Impact Noise Monitoring Results during Daytime (0700 – 1900 hrs)

Location	Noise in dB(A)								
	Range of $L_{eq\ 30min}$			Range of $L_{10\ 30min}$			Range of $L_{90\ 30min}$		
	Apr	May	Jun	Apr	May	Jun	Apr	May	Jun
M1	51.7 – 57.4	57.3 – 58.4	58.3 – 63.1	54.1 – 58.7	58.6 – 59.6	59.7 – 64.4	39.0 – 55.4	55.3 – 56.2	55.5 – 56.8
M2	53.1 – 56.2	55.1 – 57.9	61.0 – 64.2	55.5 – 57.3	56.6 – 58.8	62.9 – 65.7	49.9 – 51.8	52.1 – 53.0	54.4 – 56.0
M3	53.8 – 57.1	53.5 – 63.1	60.6 – 63.4	55.2 – 58.7	54.5 – 65.4	61.6 – 64.0	52.2 – 55.3	51.5 – 58.0	56.1 – 60.2

- 3.4.5 Applicable mitigation measures for construction works are fully implemented as shown in **Appendix B**, where double-glazed windows and air conditioning system were also installed and confirmed operable for the NSRs (N_S1, N_S2 & N_S3).
- 3.4.6 During the noise monitoring event, frontline staff of ET have inquired the treatment centre users on any noise disturbance from the construction activities at evening and night time, where no complaint and adverse opinions was received.
- 3.4.7 Data from impact monitoring during evening time and night time were compared with the NCO criteria. Where site inspection and auditing on Contractor's record have shown that the conditions stipulated in the Construction Noise Permit (CNP) issued by the Noise Control Authority for construction works during restricted hours were followed. No inappropriate practice were spotted during evening time and night time construction works, thus the stipulated requirement on noise impact control during night time and evening time was achieved.

Table 3.6 Summary of the Additional Impact Noise Monitoring Results during Evening Time (1900-2300 hrs)

Location	Noise in dB(A)								
	Range of $L_{eq\ 5min}$			Range of $L_{10\ 5min}$			Range of $L_{90\ 5min}$		
	Apr	May	Jun	Apr	May	Jun	Apr	May	Jun
M1	38.2 – 56.6	50.0 – 57.0	51.4 – 63.8	41.6 – 57.6	51.3 – 58.5	52.3 – 66.8	34.4 – 55.7	48.5 – 55.1	50.5 – 62.1
M2	48.6 – 55.3	50.1 – 55.1	52.1 – 61.4	50.2 – 56.2	51.5 – 59.3	52.6 – 62.0	46.7 – 50.8	49.0 – 53.3	51.5 – 54.6
M3	49.5 – 55.7	36.4 – 55.8	48.8 – 60.6	49.9 – 56.2	37.9 – 58.8	50.5 – 60.9	49.0 – 55.1	34.7 – 52.4	47.3 – 60.4

Table 3.7 Summary of Additional Impact Noise Monitoring Results during Night Time (2300 – 0700 hrs)

Location	Noise in dB(A)								
	Range of $L_{eq\ 5min}$			Range of $L_{10\ 5min}$			Range of $L_{90\ 5min}$		
	Apr	May	Jun	Apr	May	Jun	Apr	May	Jun
M1	44.0 – 49.7	46.2 – 54.5	48.9 – 55.1	46.6 – 49.9	46.7 – 56.8	49.8 – 59.8	39.7 – 48.4	45.6 – 47.9	47.8 – 49.5
M2	43.0 – 54.0	47.4 – 57.6	49.3 – 58.9	43.3 – 59.3	47.7 – 58.0	49.5 – 61.9	42.7 – 49.6	47.0 – 49.3	49.0 – 52.4
M3	44.9 – 55.6	35.7 – 56.1	50.6 – 60.3	45.6 – 56.4	38.8 – 56.6	51.0 – 60.6	44.2 – 54.5	33.2 – 55.6	50.1 – 60.0

4. WASTE

- 4.1 The waste generated from this Project includes inert construction and demolition (C&D) materials, and non-inert C&D materials. Non-inert C&D materials are made up of general refuse, vegetative wastes and recyclable wastes such as plastics and paper/cardboard packaging waste. Steel materials generated from the project are also grouped into non-inert C&D materials as the materials were not disposed of with other inert C&D materials.
- 4.2 As advised by the Contractor, No C&D materials were generated on site in the reporting period. For C&D waste, no metal was generated and collected by registered recycling collector. 720kg of paper was collected by the registered recycling collector. No plastic waste was collected by registered recycling collector. 100L chemical waste was collected by the licensed chemical waste collector. 4,205.5m³ of other types of wastes (e.g. general refuse) was disposed of at designated landfill. No fill sand or public fill was imported during the reporting period. No fill rock was imported during the reporting period.
- 4.3 Chemical waste generated from land-based construction activities was stored in the chemical waste cabinet for temporary storage.
- 4.4 With reference to relevant handling records and trip tickets of this Project, the quantities of different types of waste generated in the reporting period are summarised in **Table 4.1**. Details of cumulative waste management data are presented as a waste flow table in **Appendix D**.
- 4.5 The Contractor is advised to sort and store any solid and liquid waste on-site properly prior to disposal.

Table 4.1 Quantities of Waste Generated from the Project

Reporting Period	Actual Quantities of Inert C&D Materials Generated Monthly								Actual Quantities of C&D Wastes Generated Monthly					
	Total Quantity Generated	Hard Rock and Large Broken Concrete (see Note 1)	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill			Metals	Paper / cardboard packaging	Plastics (see Note 2)	Chemical Waste		Others, e.g. general refuse (see Note 3)
						Sand	Public Fill	Rock						
	(in ,000m ³)	(in ,000m ³)	(in ,000m ³)	(in ,000m ³)	(in ,000m ³)	(in ,000m ³)			(in ,000kg)	(in ,000kg)	(in ,000kg)	(in ,000kg)	(in ,000L)	(in ,000m ³)
Apr 2025	0	0	0	0	0	0	0	0	0	0	0	0	0	1.2805
May 2025	0	0	0	0	0	0	0	0	0	0	0	0	0.1000	1.6640
June 2025	0	0	0	0	0	0	0	0	0	0.7200	0	0	0	1.2610

Notes:

1. Broken concrete for recycling into aggregates.
2. Plastic refers to plastic bottles / containers, plastic sheets / foam from packaging materials.
3. Use the conversion factor: 1 full load of dumping truck being equivalent to 6.5 m³ by volume.
4. Use the conversion factor: rock density = 2 T/m³.

5. CORAL

5.1 Coral Monitoring Parameters

5.1.1 Ten (10) tagged coral colonies at each site of suggested control site and indirect impact site are being monitored weekly for the first month and followed by monthly monitoring for three months. The selected Control Site is located at Yuen Kong Chau of Soko Islands about 7 km away from the project area. After the hitting of super typhoon Mangkhut in mid-September 2018, the coral re-tagging activities at indirect impact site and control site were conducted in November and December 2018 respectively. Tagged coral colonies at the proposed recipient site are being monitored quarterly for one year and the last post-translocation coral monitoring was completed on 28 Mar 2019. The selected recipient site R3 is located the opposite side of the Project area at about 2 km away.

5.1.2 Monitoring recorded the following parameters (using the same methodology adopted during the pre-translocation survey); the size, presence, health conditions (percentage of mortality/bleaching) and percentage of sediment of each trans-located coral colony. The general environmental conditions including weather, sea, and tidal conditions of survey sites were monitored.

5.1.3 Health status of coral was assessed by the following criteria:
Hard coral: Percentage of surface area exhibiting partial mortality and blanched/bleached area of each coral colony and degree of sedimentation.

5.2 Coral Monitoring Locations

Location of the ten tagged coral colonies at each of the proposed indirect impact site, control site, the recipient site R3 and REA transect at proposed indirect impact site are shown in **Figure 5.1**, **Figure 5.2** and **Figure 5.3** respectively:

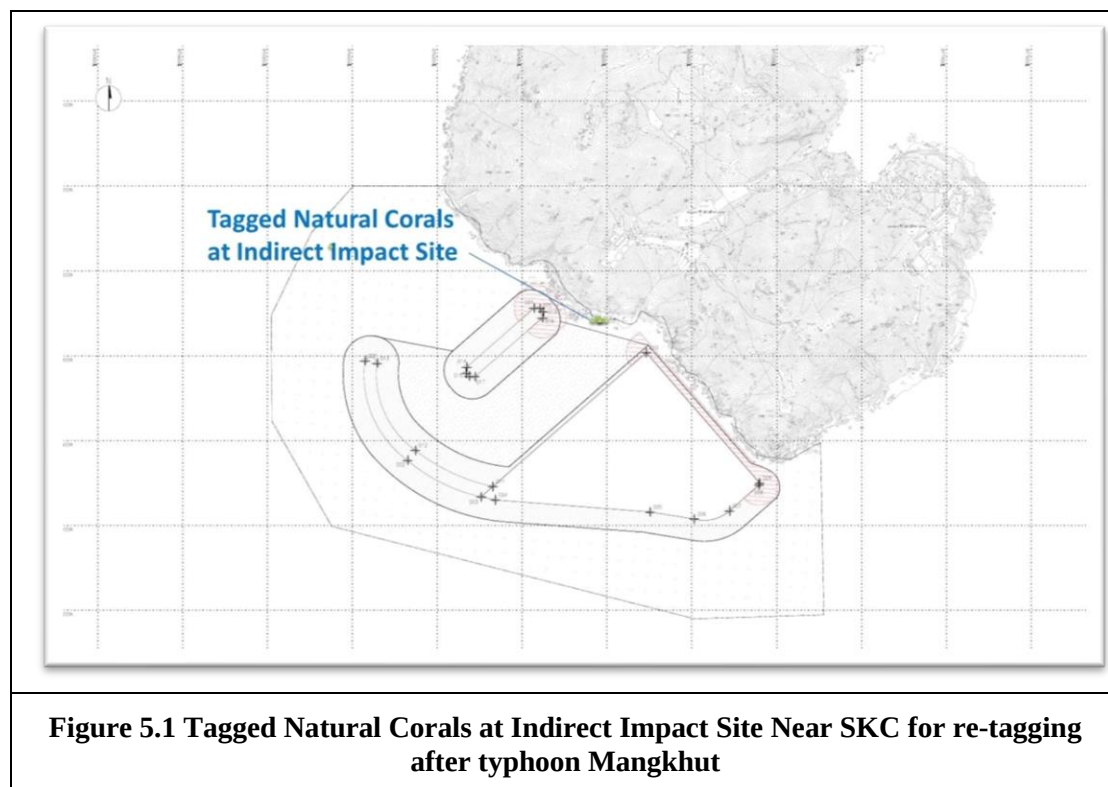




Figure 5.2 Tagged Natural Corals at Control Site Near Yuen Kong Chau for re-tagging after typhoon Mangkhut



Figure 5.3 Tagged Translocation Corals at Recipient Site R3 near SKC

5.2.1 The GPS coordinates of the tagged coral colonies and retagged coral colonies at both indirect impact site, control site and recipient site R3 were shown in **Table 5.1**, **Table 5.2** and **Table 5.3** respectively.

Table 5.1 Tagged Natural Corals during Baseline and Re-tagged Natural Corals after Typhoon Manghkut at Control Site near Yuen Long Chau

Coral # ^{note i}	GPS Coordinates	
1	N22°09'45.96"	E113°54'57.81"
2R	N22°11'29.12"	E113°59'09.01"
3	N22°09'45.81"	E113°54'57.78"
4	N22°09'45.70"	E113°54'57.95"
5R	N22°11'29.10"	E113°59'09.18"
6	N22°09'45.75"	E113°54'58.02"
7R	N22°11'29.17"	E113°59'08.86"
7	N22°09'45.65"	E113°54'57.94"
8	N22°09'45.53"	E113°54'57.90"
9	N22°09'46.23"	E113°54'54.70"
10R	N22°11'29.18"	E113°59'08.91"

Notes:

- i. The re-tagged corals were marked as ##R.

Table 5.2 Re-tagged Natural Corals after Typhoon Manghkut at Indirect Impact Site near SKC

Coral # ^{note i}	GPS Coordinates	
11R	N22°11'29.14"	E113°59'08.92"
12R	N22°11'29.12"	E113°59'09.01"
13R	N22°11'29.11"	E113°59'09.07"
14R	N22°11'29.13"	E113°59'09.12"
15R	N22°11'29.10"	E113°59'09.18"
16R	N22°11'29.07"	E113°59'09.23"
17R	N22°11'29.17"	E113°59'08.86"
18R	N22°11'29.14"	E113°59'08.94"
19R	N22°11'29.20"	E113°59'08.81"
20R	N22°11'29.18"	E113°59'08.91"

Notes:

- i. The re-tagged corals were marked as ##R.

Table 5.3 GPS Coordinates of Recipient Site R3

Site	GPS Coordinates	
R3	N22°11'43.69"	E113°28.99"

5.3 Action and Limit Levels

- 5.3.1 Monitoring result was reviewed and compared against the below Action Level and Limit Level (AL/LL) as set with the below **Table 5.4** and **Table 5.5**.

Table 5.4 Action and Limit Levels for Construction Phase Coral Monitoring

Parameter	Action Level	Limit Level
Mortality	If during Impact Monitoring a 15% increase in the percentage of partial mortality on the corals occurs at more than 20% of the tagged indirect impact site coral colonies that is not recorded on the tagged corals at the control site, then the Action Level is exceeded.	If during Impact Monitoring a 25% increase in the percentage of partial mortality on the corals occurs at more than 20% of the tagged indirect impact site coral colonies that is not recorded on the tagged corals at the control site, then the Limit Level is exceeded.

Table 5.5 Action and Limit Levels for Post-Translocation Coral Monitoring

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

5.4 Monitoring Results and Observations

- 5.4.1 Ten (10) hard coral colonies were monitored at each site of Control and Indirect Impact sites as suggested in the Construction Phase Monitoring Plan. The general health conditions (size, mortality, bleaching and sediment) were recorded and summarized in **Table 5.7** and **Table 5.8**. Photos of each tagged coral colonies were taken during the monitoring activities and shown in **Appendix E**.
- 5.4.2 The 26th quarterly coral monitoring during construction phase at both Indirect Impact Site and Control Site was conducted on 17 June 2025 and the weather condition was summarized in **Table 5.6**.

Table 5.6 Weather Condition for the 26th Quarterly Coral Monitoring during Construction Phase at both Indirect Impact Site and Control Site

Date	Condition	Average Underwater Visibility
17 June 2025	- Southwest wind force 4 to 5 - Rainy Day	- Less than 20 cm

Table 5.7 Sizes, Condition, Mortality, Bleaching and Sediment of 10 Natural Coral Colonies at Control Site of 26th Quarterly Coral Monitoring (17 June 2025) during 82nd to 84th Monthly Construction Phase Monitoring

Coral #	Species	Size (cm) – Max. Diameter	Condition	Mortality (%)		Bleaching (%)		Sediment (%)	
				Baseline (26 Jun 2018 & 3 Dec 2018)	17 June 2025	Baseline (26 Jun 2018 & 3 Dec 2018)	17 June 2025	Baseline (26 Jun 2018 & 3 Dec 2018)	17 June 2025
1	<i>Goniopora stutchburyi</i>	25	Good	0	0	0	0	0	0
2R	<i>Goniopora stutchburyi</i>	10	Good	0	0	0	0	0	0
3	<i>Psammocora superficialis</i>	18	Good	0	0	0	0	0	0
4	<i>Turbinaria peltata</i>	13	Good	0	0	0	0	0	0
5R	<i>Goniopora stutchburyi</i>	18	Good	0	0	0	0	0	0
6	<i>Cyphastrea serailia</i>	43	Good	0	0	0	0	0	0
7R	<i>Coscinaraea</i> sp.	15	Good	0	0	0	0	0	0
8	<i>Goniopora stutchburyi</i>	21	Good	0	0	0	0	0	0
9	<i>Goniopora stutchburyi</i>	11	Good	0	0	0	0	0	0
10R	<i>Goniopora stutchburyi</i>	20	Good	0	0	0	0	0	0

Notes:

- i. The re-tagged corals were marked as ##R.

Table 5.8 Sizes, Condition, Mortality, Bleaching and Sediment of 10 Natural Coral Colonies at Indirect Impact Site of 26th Quarterly Coral Monitoring (17 June 2025) during 82nd to 84th Monthly Construction Phase Monitoring

Coral #	Species	Size (cm) – Max. Diameter	Condition	Mortality (%)		Bleaching (%)		Sediment (%)	
				Baseline (23 Nov 2018)	17 June 2025	Baseline (23 Nov 2018)	17 June 2025	Baseline (23 Nov 2018)	17 June 2025
11R	<i>Cyphastrea serailia</i>	48	Good	0	0	0	0	0	0
12R	<i>Favites chinensis</i>	27	Good	0	0	0	0	0	0
13R	<i>Turbinaria peltata</i>	21	Good	0	0	0	0	0	0
14R	<i>Favites chinensis</i>	8	Good	0	0	0	0	0	0
15R	<i>Goniopora stutchburyi</i>	11	Good	0	0	0	0	0	0
16R	<i>Psammocora superficialis</i>	27	Good	0	0	0	0	0	0
17R	<i>Favites chinensis</i>	15	Good	0	0	0	0	0	0
18R	<i>Psammocora superficialis</i>	39	Good	0	0	0	0	0	0
19R	<i>Psammocora superficialis</i>	42	Good	0	0	0	0	0	0
20R	<i>Psammocora superficialis</i>	29	Good	0	0	0	0	0	0

Notes:

- i. The re-tagged corals were marked as ##R.

- 5.4.3 The re-tagging activity had been done at both Indirect Impact Site and Control Site in November 2018 and December 2018 respectively. A total of 20 tagged coral colonies (10 at control site and 10 at indirect impact site including the re-tagged coral colonies) were monitored. Similar to the baseline results performed in June, November and December 2018 and the results of the previous quarterly coral monitoring during construction phase, the health condition of all tagged and re-tagged coral colonies at Indirect Impact Site and Control site were good in general. No increased mortality was recorded during the survey in June 2025.
- 5.4.4 No sediment, bleaching or increased mortality in the general condition of coral colonies were observed during the 26th quarterly coral monitoring period. No deterioration of the coral community was observed in the ecological monitoring results when compared with the baseline ecological monitoring results. There is no AL/LL exceedance during the monitoring period.

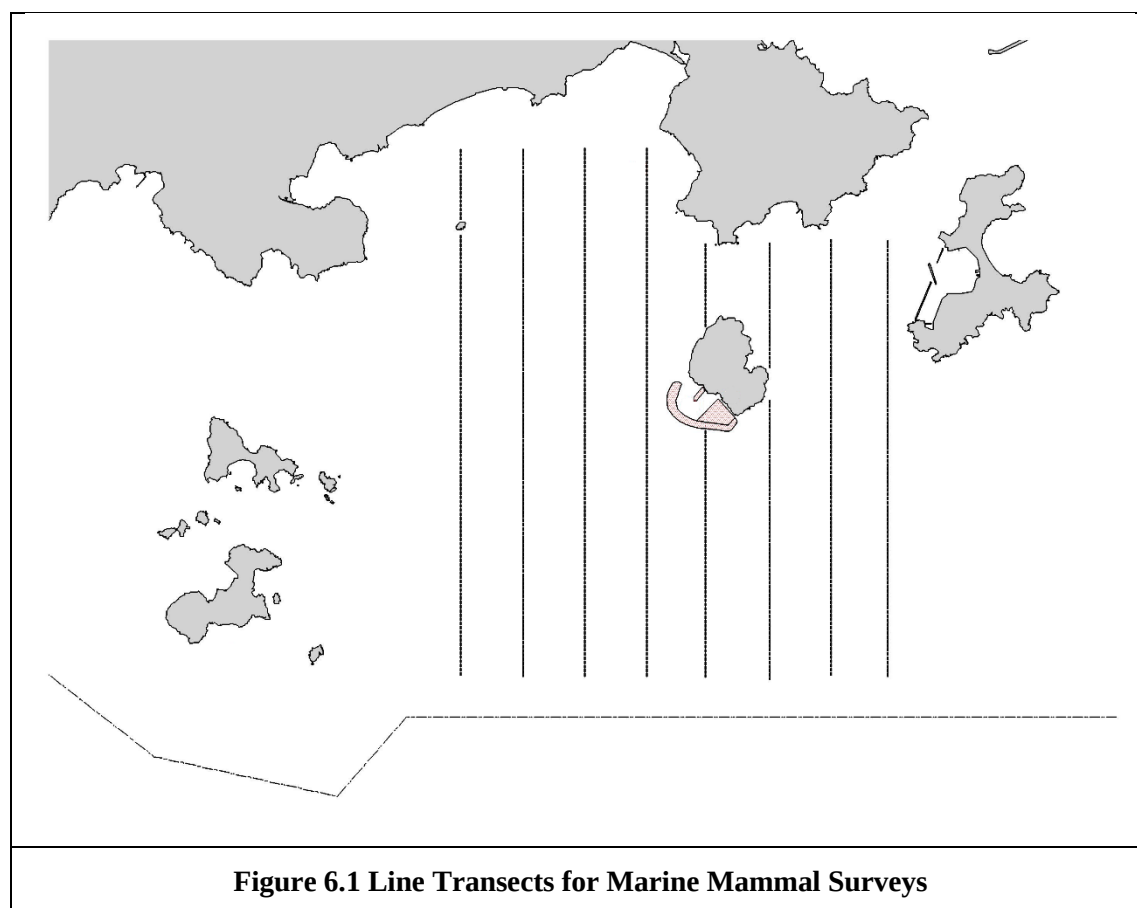
6. MARINE MAMMAL

6.1 Survey Methods

6.1.1 Vessel-based Line-transect Survey

6.1.1.1 For the vessel-based marine mammal surveys, the monitoring team adopted the standard line-transect method (Buckland et al. 2001) as same as that adopted during the EIA study and pre-construction phase monitoring to allow fair comparison of marine mammal monitoring results.

6.1.1.2 Eight transect lines are set at Southeast Lantau survey area, including Shek Kwu Chau, waters between Shek Kwu Chau and the Soko Islands, inshore waters of Lantau Island (e.g. Pui O Wan) as well as southwest corner of Cheung Chau as shown in **Figure 6.1** below:

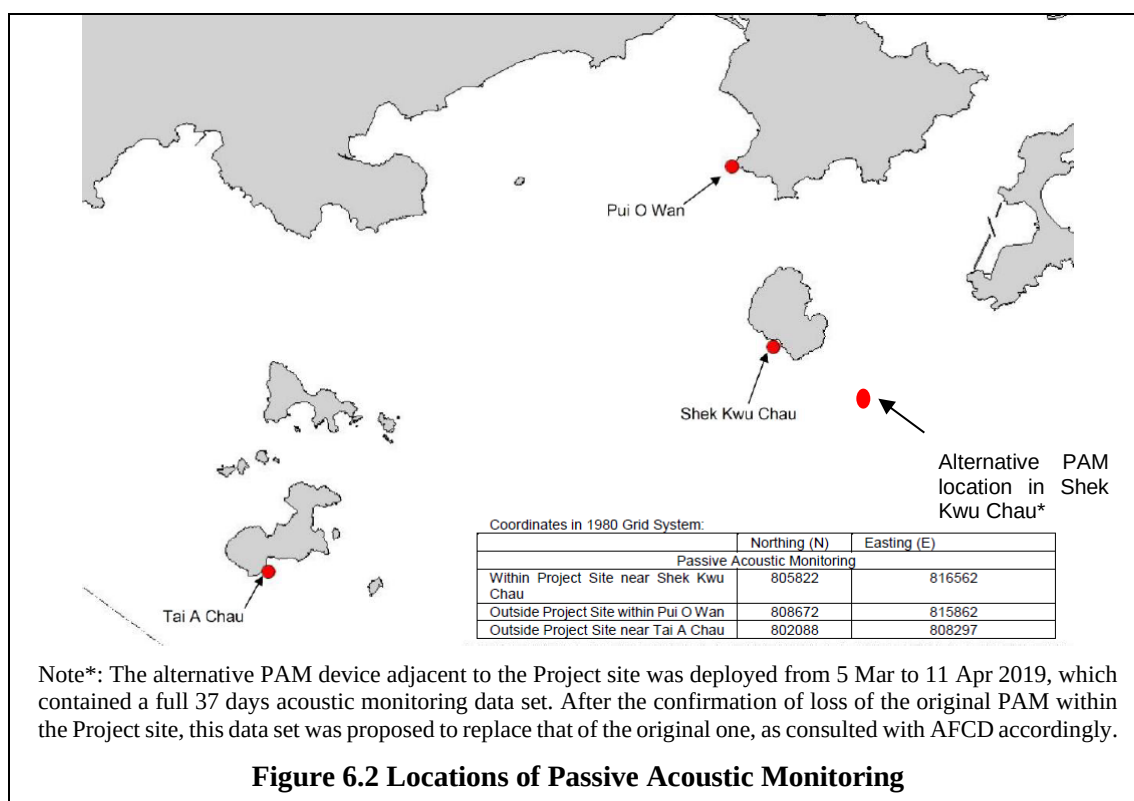


6.1.1.3 In comparison to the baseline monitoring results, results from the analyzed construction phase monitoring data would allow the detection of any changes of their usage of habitat, in response to the scheduled construction works.

6.1.2 Passive Acoustic Monitoring (PAM)

6.1.2.1 The PAM aims to study the usage of an area by Finless Porpoise by using an array of automated static porpoise detectors (e.g. C-POD) which would be deployed at different locations to detect the unique ultra-high frequency sounds produced by Finless Porpoise. During the construction period, the PAM survey will be conducted

including placement of two passive porpoise detectors outside the Project Area as control site (i.e. within Pui O Wan and to the south of Tai A Chau) and one porpoise detector within the Project Area (i.e. near Shek Kwu Chau) as shown in **Figure 6.2** below.



6.1.2.2 These three detectors will be deployed on-site to carry out 24-hours monitoring for a period listed as **Table 6.1** below during the construction phase.

Table 6.1 PAM Deployment Period

Season	Months	Deployment Period
Peak Season	December, January, February, March, April or May	At least 30 days during the peak months of porpoise occurrence in South Lantau waters

6.1.2.3 The automated static porpoise detectors shall detect the presence and number of finless porpoise and Chinese White Dolphins respectively over the deployment period, with the false signal such as boat sonar and sediment transport noise distinguished and filtered out. The detectors shall be deployed and retrieved by professional dive team on the seabed of the three selected location shown in **Figure 6.2**. During each deployment, the C-POD unit serial numbers as well as the time and date of deployments shall be recorded. Information including the GPS positions and water depth at each of the deployment locations shall also be obtained.

6.1.2.4 The diel patterns (i.e. 24-hour activity pattern) of finless porpoise occurrence among the three sites at Shek Kwu Chau, Tai A Chau and Pui O Wan shall be analyzed. Peaks and troughs of finless porpoise occurrence per hour of day would be identified and compared with the results obtained from pre-construction monitoring.

6.1.3 Land-based Theodolite Tracking

- 6.1.3.1 The Land-based Theodolite Tracking study would use the same station as in the AFCD monitoring study (same as the baseline monitoring location), which is situated at the southwest side of Shek Kwu Chau (GPS position: 22°11.47' N and 113°59.33' E) as shown in below **Figure 6.3**. The station was selected based on its height above sea level (at least 20 metres), close proximity to shore, and relatively unobstructed views of the entire Project Area to the southwest of Shek Kwu Chau. The height of the Shek Kwu Chau Station established by the HKCRP team is 74.6 m high at mean low water, and only a few hundred metres to the IWMF reclamation site, which is ideal for the purpose for the present behavioural and movement monitoring of finless porpoises as well during construction phase considering there as an un-obstructed vantage point at a height above the Project Site.

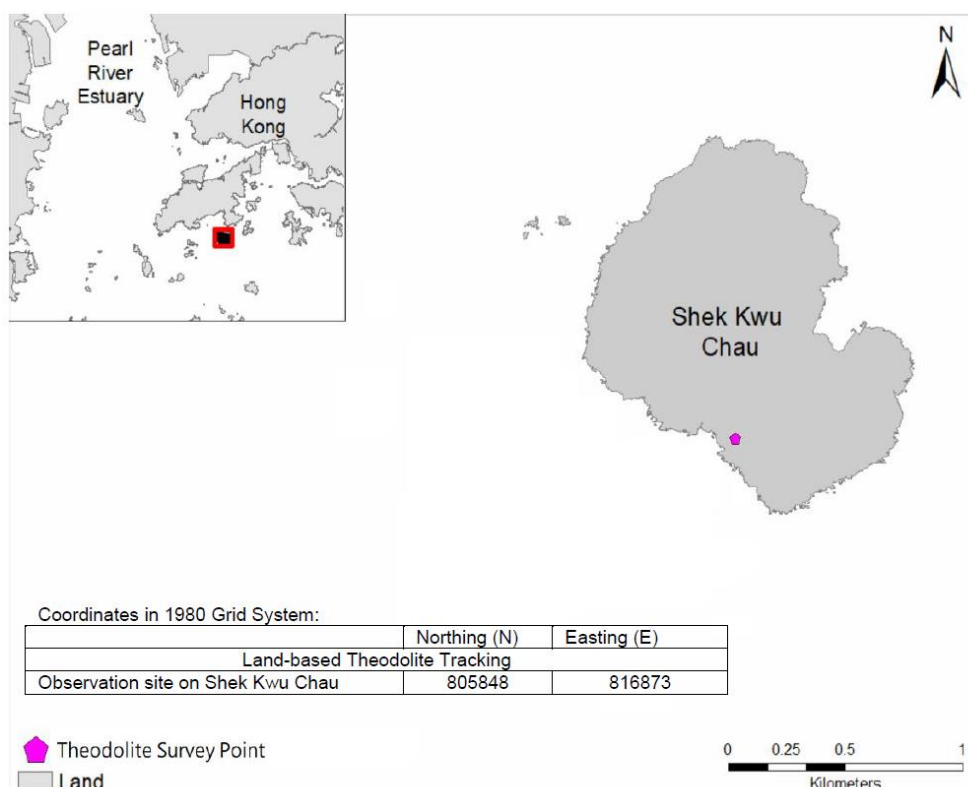


Figure 6.3 Locations of Land-based Theodolite Tracking

- 6.1.3.2 During the construction phase, Land-based Theodolite Tracking will be carried out for approximately six hours of tracking for each day of field work for a period listed as **Table 6.2** below, preferably at the initial stage of the construction period (i.e. December 2018 to May 2019).

Table 6.2 Land-based Theodolite Tracking Survey Period

Season	Months	Survey Period
Peak Season	December, January, February, March, April or May	30 days during the peak months of porpoise occurrence in South Lantau waters

- 6.1.3.3 The monitoring period for land-based theodolite tracking will be proposed to be overlapped with the PAM. The monitoring team consists of one experienced theodolite operator and at least two field observers for assistance. To conduct

theodolite tracking, the observers will search systematically for Finless Porpoise using the unaided eye and 7 x 50 handheld binoculars on each survey day throughout the study area. When an individual or group of porpoises is located, a theodolite tracking session will be initiated and focal follow methods will be used to track the porpoise(s). Behavioural state data (i.e. resting, milling, travelling, feeding and socializing) shall also be recorded every 5 minutes for the focal individual or group. Positions of porpoises and boats shall be measured using a digital theodolite connected to a laptop computer. This tracking survey will be conducted during the peak season between December 2018 and May 2019 for 30 surveys spanning across 15-16 weeks during the peak season to provide good temporal coverage during the initial stage of the construction period.

6.2 Specific Mitigation Measures

6.2.1 Monitored exclusion zones

- 6.2.1.1 During the installation/re-installation/relocation process of floating type silt curtains, in order to avoid the accidental entrance and entrapment of marine mammals within the silt curtains, a monitored exclusion zone of 250 m radius from silt curtain should be implemented and monitored by competent Marine Mammal Observers (MMOs). Marine Mammal Exclusion Zone (MMEZ) would also be implemented for precautionary purpose for DCM works.

6.2.2 Marine mammal watching plan

- 6.2.2.1 Upon the completion of silt curtain installation/re-installation/relocation, marine mammal watching plan would be implemented to observe the presence of any marine mammal around the localized silt curtain or being trapped by the localized silt curtain.

6.3 Results and Observations

6.3.1 Vessel-based Line-transect Survey

- 6.3.1.1 As confirmed with Contractor, no marine construction work will be carried out from December 2025 to June 2025 tentatively. EPD advised no objection on the temporary suspension of water quality and line-transect monitoring on 25 February 2025. The line-transect monitoring was then temporarily suspended from 25 February 2025 onward.

6.3.2 PAM and Land-based Theodolite Tracking

- 6.3.2.1 30 days of PAM surveys were started at 1 May 2019 and completed until the end of May 2019. Multiple PAM systems were deployed at three sites. The PAM system located at the IWMF was lost, however, an alternative data set has been identified. The PAM systems at the two control sites Tai A Chau and Pui O were recovered on 3 August 2019. A summary of marine mammal detections shows that porpoise were recorded every day of deployment at each site, but at varying frequencies. The detailed theodolite result was presented in 17th Monthly EM&A report (November 2019) while detailed PAM result was presented in 18th Monthly EM&A report (December 2019).
- 6.3.2.2 For the baseline study, the DPM for each site was 11,160 (Shek Kwu Chau), 16,089 (Tai A Chau) and 3645 (Pui O Wan), totalling 30,894 DPM across all three sites, compared to DPMs of 4740 (Shek Kwu Chau), 7725 (Tai A Chau) and 23,986 (Pui O Wan), totalling 36,451 DPM, for the impact phase study. As the impact phase study

was longer than the baseline study, it is not appropriate to directly compare total counts of DPM, however, the DPM rate (the average number of detections per day) for each site can be more directly compared. During the baseline study, Shek Kwu Chau averaged 338.2 DPM per day compared to 124.8 DPM per day, during the impact phase study. This showed a decrease in the daily average of porpoise detection at Shek Kwu Chau. During the baseline study, Tai A Chau averaged 487.6 DPM per day compared to 179.7 DPM per day, during the impact phase study. This showed a decrease in the daily average of porpoise detection at Tai A Chau. During the baseline study, Pui O Wan averaged 98.5 DPM per day compared to 557.8 DPM per day, during the impact phase study. This showed a significant increase in the daily average of porpoise detections at Pui O Wan (**Table 6.5**).

- 6.3.2.3 Overall, the PAM study showed that porpoise continue to consistently utilise the Shek Kwu Chau habitat immediately adjacent to the IWMF construction activities, although to a lesser degree than that prior to construction activities. In addition, the Pui O Wan site, which is 2.5 km away from the IWMF construction area, was also consistently utilised during the impact phase PAM study. A continued assessment of fine scale habitat use, particularly through PAM which yields large quantities of data, would allow a more comprehensive assessment of the EIA predictions.

Table 6.5 Summary Statistic Comparison of Baseline (2018) and Impact Phase (2019) Passive Acoustic Monitoring

Baseline data									
Site	Unit ID	Start	End	Days	DPD % Days	Total DPM	DPM /Day	% False Positive DPM	Time Lost %
Shek Kwu Chau	2891	2018/02/09	2018/03/13	32.11	100	11160	338.2	0.0	1.00
Tai A Chau	2868	2018/02/09	2018/03/13	32.5	100	16089	487.6	1.0	2.00
Pui O Wan	2891	2018/03/13	2018/04/17	34.85	97.3	3645	98.5	2.0	31.87
Total				99.01		30894	312.0		
Impact Phase									
Site	Unit ID	Start	End	Days	DPD % Days	Total DPM	DPM /Day	% False Positive DPM	Time Lost %
Shek Kwu Chau	IWMF_BU_20190305_01	2019/03/05	2019/04/11	37.91	100	4740	124.8	0.0	0
Tai A Chau	IWMF_20190411_02	2019/04/11	2019/05/23	41.94	100	7725	179.7	0.0	0
Pui O Wan	IWMF_20190411_01	2019/04/11	2019/05/23	42.02	100	23986	557.8	0.0	0
Total				121.9		36451	299.1		

- 6.3.2.4 Theodolite surveys were completed in May 2019. In total, 34 days of theodolite tracking were completed between February - May 2019, comprising 167 hours and 49 minutes of observation. No Chinese white dolphin was observed and only one finless was recorded. The finless porpoise encounter rate was calculated as 0.006 finless porpoise per hour, in all weather conditions.
- 6.3.2.5 A total of 2620 vessels of ten different types were observed and tracked within or in the proximity of the IWMF construction site. These comprised fishing boats (236), speed boats (29), container boats (155), government boats (22), high speed ferries (53), others (13) and IWMF-Related construction platforms (974), tug boats (240), transportation boats (363), construction boats (531) and approximately 8 buoys were present marking the site boundary. The detailed Land-based Theodolite Tracking Report was presented in 5th Quarterly EM&A report and 17th Monthly EM&A report.
- 6.3.2.6 The baseline theodolite tracking was conducted immediately prior to and during the site preparation activities of the site. The baseline data records a decrease in porpoise sightings as site preparation activities commenced and notes that the decrease was most likely due to the onset of site preparation activities. The impact theodolite

tracking conducted for this study records a marked increase in the number of Project related vessels and platforms and, in agreement with baseline conclusions, shows a concomitant decrease in finless porpoise sightings.

7. WHITE-BELLIED SEA EAGLE

7.1 WBSE Monitoring Parameters

7.1.1 The objective of the construction phase monitoring should be to verify the utilisation of the area by WBSE, their responses to construction disturbance, as well as the effectiveness of the proposed mitigation measures. Throughout the construction phase, field surveys should be conducted twice per month during their core breeding season (from December to May), and once per month outside their core breeding season (from June to November). The monitoring frequency should be increased to weekly during the incubation period of each year. In order to confirm their foraging ground near the construction site, it is necessary to conduct daily monitoring during the first week of nestling period in each year.

7.1.2 Since the location of the WBSE nest was located at the southwest of SKC within the hillside shrubland, it is impossible to observe the eggs during incubation period. Therefore, monitoring with increased frequency during incubation period could not be carried out. Daily monitoring will be carried out once any chick is recorded during the monitoring day.

7.2 Results and Observations

7.2.1 Two adult WBSEs and two chicks were recorded near Shek Kwu Chau area in April, May and June 2025. No abnormal behaviours of the adults and chicks were recorded during April, May and June 2025 construction phase monitoring. All construction works during the monitoring period did not show any impact to the WBSE. Since one chick was recorded on 24 April 2025, a 7-Days monitoring was conducted from 25 April 2025 to 1 May 2025.

7.2.2 Since there is no landing point along the western part of SKC, boat survey was used for the monitoring survey. In order to increase the chance of finding the WBSEs, monitoring survey was carried out either early in the morning or later in the afternoon. The weather conditions of monitoring survey were shown in **Table 7.1**.

Table 7.1 Weather Conditions during the WBSE Monitoring

Date	Condition	Temperature (°C)
9 th April 2025	- North wind force 3 to 4 - Sunny Day	22
24 th April 2025	- Northeast wind force 3 to 4 - Mainly cloudy with few rain patches	24
25 th April 2025	- Light wind force 2 - Few rain patches and thunderstorm	25
26 th April 2025	- East wind force 4 to 5 - Mainly cloudy with few rain patches	25
27 th April 2025	- East wind force 3 to 4 - Mainly cloudy with few rain patches	24
28 th April 2025	- Light wind force 2 - Sunny with a few rain patches	26
29 th April 2025	- East wind force 3 to 4 - Sunny Day	28
30 th April 2025	- East wind force 3 to 4 - Sunny Day	27
1 st May 2025	- East wind force 2 to 3 - Sunny Day	25
14 th May 2025	- East wind force 4 to 5 - Sunny Day	27
28 th May 2025	- Southeast wind force 3 to 4 - Sunny Day	28
17 th June 2025	- Southwest wind force 4 to 5 - Rainy Day	29

7.2.3 The juvenile recorded in 2022 and 2023 has not been observed since monitoring event in September 2022 and September 2023 respectively, it is suggested that the juvenile left the nest at SKC and nesting in other area outside our monitoring boundary.

7.2.4 No disturbances from anthropogenic activities on the island were recorded during the monitoring survey. No invasion of other fauna species was recorded as well.



Figure 7.1 Location of WBSE Nest on SKC

- 7.2.5 No invasion of other fauna species was recorded and no sign of using the construction site as a foraging ground was recorded as well.
- 7.2.6 Photo records of the WBSE taken during the reporting period are presented in **Appendix F**.

8. SUMMARY OF MONITORING EXCEEDANCE, COMPLAINTS, NOTIFICATION OF SUMMONS AND PROSECUTIONS

- 8.1 No exceedance of the Action and Limit Levels of the regular construction noise, water quality, coral and WBSE monitoring was recorded during the reporting period.
- 8.2 No environmental complaint was received in the reporting period.
- 8.3 No notification of summon or prosecution was received since commencement of the Contract.
- 8.4 Statistics on complaints, notifications of summons and successful prosecutions are summarized in **Appendix G**.

9. EM&A SITE INSPECTION

- 9.1 Site inspections were carried out on weekly basis to monitor the implementation of proper environmental pollution control and mitigation measures under the Contract. Site inspections were carried out at the Site Portions 1, 1A, 1B during the reporting period. Portions 1, 1A & 1B were the sites near SKC within the Site boundary.
- 9.2 Joint site inspection with IEC was carried out on monthly basis.
- 9.3 Minor deficiencies were observed during weekly site inspection. Key observations during the site inspections are summarized below:
- Prevention actions for oil/chemical/ chemical waste spillage were not carried out properly;
 - Chemical was not stored properly at designated storage place;
 - Prevention actions for site runoff were not carried out properly;
 - General waste was not stored inside the enclosed rubbish bin and housekeeping was not maintained;
 - C&D waste and construction waste was not separately stored;
 - General waste was over-accumulated;
 - Obstruction to temporary drainage point for surface runoff collection; and
 - NRMM label was not properly displayed on machinery.
- 9.4 The Contractor had rectified all the observations identified during environmental site inspections in the reporting period.
- 9.5 According to the EIA Study Report, Environmental Permit, contract documents and Updated EM&A Manual, the mitigation measures detailed in the documents, except the silt curtain system, are implemented as much as practical during the reporting period. An updated Implementation Status of Environmental Mitigation Measures (EMIS) is provided in **Appendix B**.

10. CONCLUSION AND RECOMMENDATIONS

- 10.1 This 28th Quarterly Environmental Monitoring and Audit (EM&A) Report summarizes the EM&A works undertaken during the period from 1 April 2025 to 30 June 2025 in accordance with the Updated EM&A Manual and the requirement under EP- 429/2012/A and FEP-01/429/2012/A.
- 10.2 Construction noise, construction waste, coral and White-Bellied Sea Eagle (WBSE) monitoring were carried out in the reporting period. No project-related exceedance of the Action and Limit Levels was recorded during the reporting period.
- 10.3 Weekly environmental site inspections were conducted during the reporting period. Environmental deficiencies were observed during site inspection and were rectified.
- 10.4 According to the environmental site inspections performed in the reporting month, the Contractor was reminded to pay attention on proper storage of chemicals, proper storage of general waste and C&D waste, regular removal of general waste and C&D waste from site and proper implementation of mitigation measures for runoff.
- 10.5 No environmental complaint was received in the reporting period.
- 10.6 No notification of summon or prosecution was received since commencement of the Contract.
- 10.7 The ET will keep track on the construction works to confirm compliance of environmental requirements and the proper implementation of all necessary mitigation measures.

Appendix A Master Programme

Keppel Seghers 吉寶西格赫斯-德華聯營公司 KEPPEL SEGHERS - ZHEN HUA JOINT VENTURE		Contract No. EP/SP/66/12								環境保護署 Environmental Protection Department									
Integrated Waste Management Facilities, Phase 1																			
Activity ID	Activity Name	Original Duration	Remaining Duration	Activity % Complete	Current Start	Current Finish	Late Start	Late Finish	Total Float	M88 Remarks	2025								
											Mar 88	Apr 89	May 90	Jun 91					
Programme for Design and Construction Works WP7D-M88 - 3-Month		2512	250		20-Jan-19 A	05-Dec-25	17-Oct-24	11-Oct-26	310										
Key Dates		462	216		28-Jul-24 A	01-Nov-25	29-Mar-25	31-Oct-25	-1										
Contractual Key Dates		376	175		28-Jul-24 A	01-Nov-25	29-Mar-25	31-Oct-25	-1										
01-1020(7A)	Extension of Time (EOT) Granted (in working days)	376	175	53.46%	28-Jul-24 A	01-Nov-25	29-Mar-25	31-Oct-25	-1										
Dates of Site Possession		0	0		22-Apr-25	22-Apr-25	26-May-25	26-May-25	34										
01-1190	Possession of Portion 6	0	0	0%	22-Apr-25		26-May-25		34			◆ Possession of Portion 6							
License/Permit Applications		240	119		06-Dec-24 A	27-Jul-25	09-Dec-24	05-Jun-25	-52										
DG Licence		224	103		03-Jan-25 A	11-Jul-25	27-Dec-24	09-Apr-25	-93										
Day Tank & Fuel Oil Storage (Cat 5)		211	90		03-Jan-25 A	28-Jun-25	27-Dec-24	26-Mar-25	-94										
03-1410	DGD and VD Review and Approval of Submission	90	16	82.22%	03-Jan-25 A	15-Apr-25	27-Dec-24	11-Jan-25	-94			DGD and VD Review and Approval of Submission							
E. Gen RM for IWMF Substation		74	74		16-Apr-25	28-Jun-25	12-Jan-25	26-Mar-25	-94										
03-1420	DGD Compliance Inspection, Defects Rectification and Re-inspection	60	60	0%	16-Apr-25	14-Jun-25	12-Jan-25	12-Mar-25	-94				DGD Compliance Inspect						
03-1430	VD Compliance Inspection, Defects Rectification and Re-inspection	60	60	0%	16-Apr-25	14-Jun-25	12-Jan-25	12-Mar-25	-94				VD Compliance Inspectio						
03-1440	Issue of DG License	14	14	0%	15-Jun-25	28-Jun-25	13-Mar-25	26-Mar-25	-94				Issue of DG License						
Fuel Oil System		28	28		02-Apr-25	29-Apr-25	17-Jan-25	13-Feb-25	-75										
03-3850	DGD Compliance Inspection, Defects Rectification and Re-inspection	14	14	0%	02-Apr-25	15-Apr-25	17-Jan-25	30-Jan-25	-75				DGD Compliance Inspection, Defects Rectification and Re-inspection						
03-3860	VD Compliance Inspection, Defects Rectification and Re-inspection	14	14	0%	02-Apr-25	15-Apr-25	17-Jan-25	30-Jan-25	-75				VD Compliance Inspection, Defects Rectification and Re-inspection						
03-3870	Issuance of DG License	14	14	0%	16-Apr-25	29-Apr-25	31-Jan-25	13-Feb-25	-75				Issuance of DG License						
Chemical Stores (all Cat)		103	103		31-Mar-25	11-Jul-25	28-Dec-24	09-Apr-25	-93										
03-1490	DGD and VD Review and Approval of Submission	39	39	0%	31-Mar-25*	08-May-25	28-Dec-24	04-Feb-25	-93				DGD and VD Review and Approval of Submission						
03-1500	DGD Compliance Inspection, Defects Rectification and Re-inspection	50	50	0%	09-May-25	27-Jun-25	05-Feb-25	26-Mar-25	-93	Update Original Duration from 60d to 50d				DGD					
03-1510	VD Compliance Inspection, Defects Rectification and Re-inspection	50	50	0%	09-May-25	27-Jun-25	05-Feb-25	26-Mar-25	-93	Update Original Duration from 60d to 50d				VD					
03-1520	Issuance of DG License	14	14	0%	28-Jun-25	11-Jul-25	27-Mar-25	09-Apr-25	-93										
Fire Services Installations (FSI) Certificate		135	76		06-Dec-24 A	14-Jun-25	26-Feb-25	08-May-25	-37										
Fire Services Installations Certificate Inspection		135	76		06-Dec-24 A	14-Jun-25	26-Feb-25	08-May-25	-37										
03-1555-1(7C)	FSI 314 Submission and Approval	90	31	65.56%	06-Dec-24 A	30-Apr-25	08-Apr-25	08-May-25	8			FSI 314 Submission and Approval							
FSI Phase 1 (PB M1, Bunker and IWMF Substation with associated Pump Rms)		29	29		17-May-25	14-Jun-25	26-Feb-25	26-Mar-25	-80										
03-3945(7C)	Hot Smoke Test for Module 1 and Bunker Compartment	29	29	0%	17-May-25	14-Jun-25	26-Feb-25	26-Mar-25	-80				Hot Smoke Test for Modu						
Air Pollution Control (Specified Processes) License		119	119		05-Mar-25 A	27-Jul-25	07-Feb-25	05-Jun-25	-52										
03-1780(3)	Preparation and Submission for Trial Plan	60	29	51.67%	05-Mar-25 A	28-Apr-25	07-Feb-25	07-Mar-25	-52	Update Actual Start Date		Preparation and Submission for Trial Plan							
03-1790(3)	Review and approval of Trial Plan by EPD Licensing Department	90	90	0%	29-Apr-25	27-Jul-25	08-Mar-25	05-Jun-25	-52										
Boilers and Pressure Vessels License		198	108		10-Dec-24 A	16-Jul-25	09-Dec-24	01-Apr-25	-106										
03-1930(3)	L1 & L2 Preparation and Submit inspection report and associated document to LD	53	11	79.05%	10-Dec-24 A	10-Apr-25	04-Jan-25	14-Jan-25	-86			L1 & L2 Preparation and Submit inspection report and associated document to LD							
03-1940(3)	L1 & L2 Issuance of all Boiler License	21	21	0%	11-Apr-25	01-May-25	15-Jan-25	04-Feb-25	-86			L1 & L2 Issuance of all Boiler License							
03-1950(M83)	L3 & L4 Completion of on-site boiler installation & Testing	0	0	0%		31-Mar-25		09-Dec-24	-111			◆ L3 & L4 Completion of on-site boiler installation & Testing							
03-1960(M83)	L3 & L4 Preparation and Submit inspection report and associated document to LD	40	40	0%	31-Mar-25	09-May-25	10-Dec-24	18-Jan-25	-111			L3 & L4 Preparation and Submit inspection report and associated document to LD							
03-1970(M83)	L3 & L4 Issuance of all Boiler License	21	21	0%	10-May-25	30-May-25	19-Jan-25	08-Feb-25	-111			L3 & L4 Issuance of all Boiler License							
03-1980(M83)	L5 & L6 Completion of on-site boiler installation & Testing	0	0	0%		14-May-25		28-Jan-25	-106			◆ L5 & L6 Completion of on-site boiler installation & Testing							
03-1980(M83)10	L5 & L6 Preparation and Submit inspection report and associated document to LD	42	42	0%	15-May-25	25-Jun-25	29-Jan-25	11-Mar-25	-106				L5 & L						
03-1980(M83)20	L5 & L6 Issuance of all Boiler License	21	21	0%	26-Jun-25	16-Jul-25	12-Mar-25	01-Apr-25	-106										
Lifts or Escalators		0	0		31-Mar-25	31-Mar-25	06-Feb-25	06-Feb-25	-53			◆ Notification of Commencement of Works Involving Installation or Maintenance							
03-1060	Notification of Commencement of Works Involving Installation or Maintenance	0	0	0%	31-Mar-25		06-Feb-25		-53										
Design Submissions		2501	239		20-Jan-19 A	24-Nov-25	17-Oct-24	14-Apr-26	141										
AIP Design Package Submissions		1079	105		04-Jul-22 A	13-Jul-25	02-Nov-24	16-Mar-25	-119										
AIP Testing and Commissioning (2.12)		105	105		31-Mar-25	13-Jul-25	02-Dec-24	16-Mar-25	-119										
05-2680	Plant commissioning plan (2.12.04)	105	105	0%	31-Mar-25	13-Jul-25	02-Dec-24	16-Mar-25	-119										
AIP O&M Packages		699	31		04-Jul-22 A	30-Apr-25	02-Nov-24	02-Dec-24	-149										
05-8010(6E)	Warehouse (O&M Scope)	185	31	83.24%	04-Jul-22 A	30-Apr-25	02-Nov-24	02-Dec-24	-149			Warehouse (O&M Scope)							
05-8020(6E)	Workshop (O&M Scope)	150	31	79.33%	04-Jul-22 A	30-Apr-25	02-Nov-24	02-Dec-24	-149			Workshop (O&M Scope)							
DDA Design Package Submissions		2501	239		20-Jan-19 A	24-Nov-25	17-Oct-24	14-Apr-26	141										
DDA Ground Treatment, Reclamation, Seawall, Breakwater, Berth (2.2)		1956	29		20-Jan-19 A	28-Apr-25	06-Jan-25	06-Jun-25	39										
05-3450	Seawall design (2.2.20)	60	9	85%	20-Jan-19 A	08-Apr-25	16-Apr-25	24-Apr-25	16			Seawall design (2.2.20)							
05-3460	Breakwater design (2.2.21)	105	4	96.19%	12-Apr-19 A	03-Apr-25	03-Jun-25	06-Jun-25	64			Breakwater design (2.2.21)							
05-3470	Berth design (2.2.22)	60	5	92%	30-Jan-19 A	04-Apr-25	06-Jan-25	10-Jan-25	-84			Berth design (2.2.22)							
05-3480	Onshore crane Facility (2.2.23)	60	3	95%	01-Feb-24 A	02-Apr-25	08-Jan-25	10-Jan-25	-82			Onshore crane Facility (2.2.23)							
05-3490	Onshore vessel power supply system (2.2.24)	90	29	67.78%	29-Feb-24 A	28-Apr-25	25-Jan-25	22-Feb-25	-65			Onshore vessel power supply system (2.2.24)							
DDA Incineration Plant Buildings (2.3)		303	30		28-Apr-23 A	29-Apr-25	26-Dec-24	06-Apr-25	-23										
Electrical and instrumentation works design (2.3.15)		90	15		14-Jun-23 A	14-Apr-25	26-Dec-24	09-Jan-25	-95										
Operation Management System (2.3.15.04)		90	15		14-Jun-23 A	14-Apr-25	26-Dec-24	09-Jan-25	-95										
05-5400-1(M22)	Automatic Traffic Control System (ATCS)	90	15	83.33%	14-Jun-23 A	14-Apr-25	26-Dec-24	09-Jan-25	-95			Automatic Traffic Control System (ATCS)							
Building services design (excluding fire services installation design) (2.3.18)		90	30		28-Apr-23 A	29-Apr-25	09-Jan-25	06-Apr-25	-23										
05-3750	Lifts and Escalators (2.3.18.07.07.01)	90	29	67.78%	13-Jul-23 A	28-Apr-25	09-Mar-25	06-Apr-25	-22			Lifts and Escalators (2.3.18.07.07.01)							
05-3780	Vehicle & Container Wash System (2.3.18.01.10.01)	60	30	50%	28-Apr-23 A	29-Apr-25	09-Jan-25	07-Feb-25	-81			Vehicle & Container Wash System (2.3.18.01.10.01)							
DDA Mechanical Treatment Plant Building (2.4)		456	43		13-Jul-23 A	12-May-25	17-Oct-24	06-May-25	-6										
05-5190	Electrical and instrumentation works design	121	43	0%	18-Nov-24 A	12-May-25	05-Nov-24	17-Dec-24	-146			Electrical and instrumentation works design							
05-5200	Mechanical works design (2.4.16)	135	31	77.04%	14-Aug-23 A	30-Apr-25	17-Oct-24	16-Nov-24	-165			Mechanical works design (2.4.16)							
Building services design (excluding fire services installation design) (2.4.18)		90	7		13-Jul-23 A	06-Apr-25	30-Apr-25	06-May-25	30										
05-3910	Lifts and Escalators (2.4.18.08.01)	90	7	92.22%	13-Jul-23 A	06-Apr-25	30-Apr-25	06-May-25	30			Lifts and Escalators (2.4.18.08.01)							
DDA Wastewater Treatment Plant (2.5)		232	31		31-May-22 A	30-Apr-25	10-Nov-24	10-Dec-24	-141										
05-3960	Mechanical works design (2.5.16) (5 Packages)	232	31	35%	31-May-22 A	30-Apr-25	10-Nov-24	10-Dec-24	-141			Mechanical works design (2.5.16) (5 Packages)							
3-Month Rolling Programme (March 2025)										Actual Work Remaining Work Critical Remaining Work Milestone Actrual Milestone Critical Milestone									
PAGE 1 OF 16																			

Keppel Seghers 吉寶西格赫斯-德華聯營公司 KEPPEL SEGHERS - ZHEN HUA JOINT VENTURE												Contract No. EP/SP/66/12				環境保護署 Environmental Protection Department	
Integrated Waste Management Facilities, Phase 1																	
Activity ID		Activity Name		Original Duration	Remaining Duration	Activity % Complete	Current Start	Current Finish	Late Start	Late Finish	Total Float	M88 Remarks					

Keppel Seghers 吉寶西格赫斯-德華聯營公司 KEPPEL SEGHERS - ZHEN HUA JOINT VENTURE		Contract No. EP/SP/66/12 Integrated Waste Management Facilities, Phase 1										環境保護署 Environmental Protection Department		
Activity ID	Activity Name	Original Duration	Remaining Duration	Activity % Complete	Current Start	Current Finish	Late Start	Late Finish	Total Float	M88 Remarks	2025			
											Mar 88	Apr 89	May 90	Jun 91
PFab 1- Line 1		78	19		10-Jun-24 A	18-Apr-25	10-Jan-25	28-Jan-25	-80					
Precommissioning		78	19		10-Jun-24 A	18-Apr-25	10-Jan-25	28-Jan-25	-80					
06-TPU-1-1030	PFab 1-Line 1 - Pre-commissioning	78	19	75.64%	10-Jun-24 A	18-Apr-25	10-Jan-25	28-Jan-25	-80					
PFab 1- Line 2		70	19		30-Sep-24 A	18-Apr-25	10-Jan-25	28-Jan-25	-80					
Precommissioning		70	19		30-Sep-24 A	18-Apr-25	10-Jan-25	28-Jan-25	-80					
06-TPU-2-1020	PFab 1-Line 2 - Pre-commissioning	70	19	72.86%	30-Sep-24 A	18-Apr-25	10-Jan-25	28-Jan-25	-80					
PFab 1- Line 3		80	31		17-Feb-25 A	30-Apr-25	29-Dec-24	28-Jan-25	-92					
Precommissioning		80	31		17-Feb-25 A	30-Apr-25	29-Dec-24	28-Jan-25	-92					
06-TPU-3-1020	PFab 1-Line 3 - Pre-commissioning	80	31	61.25%	17-Feb-25 A	30-Apr-25	29-Dec-24	28-Jan-25	-92					
PFab 1- Line 4		62	62		14-Apr-25	14-Jun-25	09-Dec-24	08-Feb-25	-126					
Precommissioning		62	62		14-Apr-25	14-Jun-25	09-Dec-24	08-Feb-25	-126					
06-TPU-4-1020	PFab 1-Line 4 - Pre-commissioning	62	62	0%	14-Apr-25	14-Jun-25	09-Dec-24	08-Feb-25	-126	Update Original Duration from 68d to 62d				
PFab 1- Line 5		339	97		01-Aug-24 A	05-Jul-25	26-Nov-24	29-Mar-25	-98					
E&I Installation		224	31		01-Aug-24 A	30-Apr-25	26-Nov-24	29-Mar-25	-32					
Electrical		194	31		01-Aug-24 A	30-Apr-25	26-Nov-24	29-Mar-25	-32					
06-TPU-5-1270	PFab 1-Line 5 - Electrical Cable Pulling and Termination	180	31	82.78%	14-Aug-24 A	30-Apr-25	27-Feb-25	29-Mar-25	-32					
06-TPU-5-1280	PFab 1-Line 5 - Electrical Equipment Installation	180	31	82.78%	01-Aug-24 A	30-Apr-25	26-Nov-24	26-Dec-24	-125					
Instrument		193	31		01-Aug-24 A	30-Apr-25	26-Nov-24	26-Dec-24	-125					
06-TPU-5-1300	PFab 1-Line 5 - Instrument Cable Pulling and Termination	180	31	82.78%	14-Aug-24 A	30-Apr-25	26-Nov-24	26-Dec-24	-125					
06-TPU-5-1310	PFab 1-Line 5 - Instrument Equipment Installation	180	31	82.78%	01-Aug-24 A	30-Apr-25	26-Nov-24	26-Dec-24	-125					
06-TPU-5-1320	PFab 1-Line 5 - Instrument Tubing Installation	180	31	82.78%	01-Aug-24 A	30-Apr-25	26-Nov-24	26-Dec-24	-125					
Precommissioning		66	66		01-May-25	05-Jul-25	27-Dec-24	02-Mar-25	-125					
06-TPU-5-1020	PFab 1-Line 5 - Pre-commissioning	66	66	0%	01-May-25	05-Jul-25	27-Dec-24	02-Mar-25	-125					
PFab 1- Line 6		339	97		01-Aug-24 A	05-Jul-25	26-Nov-24	29-Mar-25	-98					
E&I Installation		224	31		01-Aug-24 A	30-Apr-25	26-Nov-24	29-Mar-25	-32					
Electrical		194	31		01-Aug-24 A	30-Apr-25	26-Nov-24	29-Mar-25	-32					
06-TPU-6-1270	PFab 1-Line 6 - Electrical Cable Pulling and Termination	180	31	82.78%	14-Aug-24 A	30-Apr-25	27-Feb-25	29-Mar-25	-32					
06-TPU-6-1280	PFab 1-Line 6 - Electrical Equipment Installation	180	31	82.78%	01-Aug-24 A	30-Apr-25	26-Nov-24	26-Dec-24	-125					
Instrument		193	31		01-Aug-24 A	30-Apr-25	26-Nov-24	26-Dec-24	-125					
06-TPU-6-1300	PFab 1-Line 6 - Instrument Cable Pulling and Termination	180	31	82.78%	14-Aug-24 A	30-Apr-25	26-Nov-24	26-Dec-24	-125					
06-TPU-6-1310	PFab 1-Line 6 - Instrument Equipment Installation	180	31	82.78%	01-Aug-24 A	30-Apr-25	26-Nov-24	26-Dec-24	-125					
06-TPU-6-1320	PFab 1-Line 6 - Instrument Tubing Installation	180	31	82.78%	01-Aug-24 A	30-Apr-25	26-Nov-24	26-Dec-24	-125					
Precommissioning		66	66		01-May-25	05-Jul-25	27-Dec-24	02-Mar-25	-125					
06-TPU-6-1020	PFab 1-Line 6 - Pre-commissioning	66	66	0%	01-May-25	05-Jul-25	27-Dec-24	02-Mar-25	-125					
Fabrication of Module (FGC)		340	97		10-Jun-24 A	05-Jul-25	26-Nov-24	29-Mar-25	-98					
PFab 2 - Line 1		78	19		10-Jun-24 A	18-Apr-25	10-Jan-25	28-Jan-25	-80					
Precommissioning		78	19		10-Jun-24 A	18-Apr-25	10-Jan-25	28-Jan-25	-80					
06-FGC-1-1190	PFab 2-Line 1 - Pre-commissioning	78	19	75.64%	10-Jun-24 A	18-Apr-25	10-Jan-25	28-Jan-25	-80					
PFab 2 - Line 2		70	19		30-Sep-24 A	18-Apr-25	10-Jan-25	28-Jan-25	-80					
Precommissioning		70	19		30-Sep-24 A	18-Apr-25	10-Jan-25	28-Jan-25	-80					
06-FGC-2-1020	PFab 2-Line 2 - Pre-commissioning	70	19	72.86%	30-Sep-24 A	18-Apr-25	10-Jan-25	28-Jan-25	-80					
PFab 2 - Line 3		60	31		17-Feb-25 A	30-Apr-25	29-Dec-24	28-Jan-25	-92					
Precommissioning		60	31		17-Feb-25 A	30-Apr-25	29-Dec-24	28-Jan-25	-92					
06-FGC-3-1180	PFab 2-Line 3 - Pre-commissioning	60	31	48.33%	17-Feb-25 A	30-Apr-25	29-Dec-24	28-Jan-25	-92					
PFab 2 - Line 4		53	53		15-Apr-25	06-Jun-25	18-Dec-24	08-Feb-25	-118					
Precommissioning		53	53		15-Apr-25	06-Jun-25	18-Dec-24	08-Feb-25	-118					
06-FGC-4-1020	PFab 2-Line 4 - Pre-commissioning	53	53	0%	15-Apr-25	06-Jun-25	18-Dec-24	08-Feb-25	-118					
PFab 2 - Line 5		339	97		01-Aug-24 A	05-Jul-25	26-Nov-24	29-Mar-25	-98					
E&I Installation		210	31		01-Aug-24 A	30-Apr-25	26-Nov-24	29-Mar-25	-32					
Electrical		197	31		01-Aug-24 A	30-Apr-25	26-Nov-24	29-Mar-25	-32					
06-FGC-5-1250	PFab 2-Line 5 - Electrical Cable Pulling and Termination	180	31	82.78%	14-Aug-24 A	30-Apr-25	27-Feb-25	29-Mar-25	-32					
06-FGC-5-1260	PFab 2-Line 5 - Electrical Equipment Installation	180	31	82.78%	01-Aug-24 A	30-Apr-25	26-Nov-24	26-Dec-24	-125					
Instrument		193	31		01-Aug-24 A	30-Apr-25	26-Nov-24	26-Dec-24	-125					
06-FGC-5-1280	PFab 2-Line 5 - Instrument Cable Pulling and Termination	180	31	82.78%	14-Aug-24 A	30-Apr-25	26-Nov-24	26-Dec-24	-125					
06-FGC-5-1290	PFab 2-Line 5 - Instrument Equipment Installation	180	31	82.78%	01-Aug-24 A	30-Apr-25	26-Nov-24	26-Dec-24	-125					
06-FGC-5-1300	PFab 2-Line 5 - Instrument Tubing Installation	180	31	82.78%	01-Aug-24 A	30-Apr-25	26-Nov-24	26-Dec-24	-125					
Precommissioning		66	66		01-May-25	05-Jul-25	27-Dec-24	02-Mar-25	-125					
06-FGC-5-1210	PFab 2-Line 5 - Pre-commissioning	66	66	0%	01-May-25	05-Jul-25	27-Dec-24	02-Mar-25	-125					
PFab 2 - Line 6		339	97		01-Aug-24 A	05-Jul-25	26-Nov-24	29-Mar-25	-98					
E&I Installation		224	31		01-Aug-24 A	30-Apr-25	26-Nov-24	29-Mar-25	-32					
Electrical		194	31		01-Aug-24 A	30-Apr-25	26-Nov-24	29-Mar-25	-32					
06-FGC-6-1260	PFab 2-Line 6 - Electrical Cable Pulling and Termination	180	31	82.78%	14-Aug-24 A	30-Apr-25	27-Feb-25	29-Mar-25	-32					
06-FGC-6-1270	PFab 2-Line 6 - Electrical Equipment Installation	180	31	82.78%	01-Aug-24 A	30-Apr-25	26-Nov-24	26-Dec-24	-125					
Instrument		193	31		01-Aug-24 A	30-Apr-25	26-Nov-24	26-Dec-24	-125					
06-FGC-6-1290	PFab 2-Line 6 - Instrument Cable Pulling and Termination	180	31	82.78%	14-Aug-24 A	30-Apr-25	26-Nov-24	26-Dec-24	-125					
06-FGC-6-1300	PFab 2-Line 6 - Instrument Equipment Installation	180	31	82.78%	01-Aug-24 A	30-Apr-25	26-Nov-24	26-Dec-24	-125					
06-FGC-6-1310	PFab 2-Line 6 - Instrument Tubing Installation	180	31	82.78%	01-Aug-24 A	30-Apr-25	26-Nov-24	26-Dec-24	-125					
Precommissioning		66	66		01-May-25	05-Jul-25	27-Dec-24	02-Mar-25	-125					
06-FGC-6-1030	PFab 2-Line 6 - Pre-commissioning	66	66	0%	01-May-25	05-Jul-25	27-Dec-24	02-Mar-25	-125					
Procurement for ACC Units		13	31		19-Jan-25 A	30-Apr-25	20-Oct-24	19-Nov-24	-162					
06-1190	Delivery to Site ACC-3	13	31	0%	19-Jan-25 A	30-Apr-25	20-Oct-24	19-Nov-24	-162					
Procurement for Mechanical Treatment Plant Building Plant Equipment		61	25		01-May-24 A	24-Apr-25	23-Nov-24	17-Dec-24	-128					
06-1180	Delivery to Site	61	25	59.02%	01-May-24 A	24-Apr-25	23-Nov-24	17-Dec-24	-128					
Procurement for Wastewater Treatment Plant Equipment		90	31		15-Jan-24 A	30-Apr-25	16-Nov-24	17-Dec-24	-135					
06-1220	Delivery to Site	90	31	65.56%	15-Jan-24 A	30-Apr-25	16-Nov-24	17-Dec-24	-135					
										Actual Work Remaining Work	Critical Remaining Work Milestone	Actrual Milestone Critical Milestone		

3-Month Rolling Programme

Keppel Seghers 吉寶西格赫斯-德華聯營公司 KEPPEL SEGHERS - ZHEN HUA JOINT VENTURE												Contract No. EP/SP/66/12				環境保護署 Environmental Protection Department	
Integrated Waste Management Facilities, Phase 1																	
Activity ID		Activity Name				Original Duration	Remaining Duration	Activity % Complete	Current Start	Current Finish	Late Start	Late Finish	Total Float	M88 Remarks			
2025																	
						Mar 88			Apr 89			May 90			Jun 91		
Procurement for HV Transformers and Associated Equipment						604	87		26-Sep-22 A	25-Jun-25	04-Nov-24	29-Jan-25	-147				
Procurement of IS Limiter						604	87		26-Sep-22 A	25-Jun-25	04-Nov-24	29-Jan-25	-147				
06-1270(7)	IS Limiter Design Approval (2.8.15.06.27)	120	16	86.67%	26-Sep-22 A	15-Apr-25	04-Nov-24	19-Nov-24	-147	Update Duration from 56d to 41d							
06-1280(7)	Manufacturing of IS Limiter	41	41	0%	16-Apr-25	26-May-25	20-Nov-24	30-Dec-24	-147								
06-1290(7)	Factory Acceptance Test (FAT)	15	15	0%	27-May-25	10-Jun-25	31-Dec-24	14-Jan-25	-147								
06-1300(7)	Delivery to Site	15	15	0%	11-Jun-25	25-Jun-25	15-Jan-25	29-Jan-25	-147								
Procurement for Onshore Crane at Berth						75	16		01-Oct-24 A	15-Apr-25	09-Feb-25	24-Feb-25	-50				
06-1370	Factory Acceptance Test (FAT)	30	2	95%	01-Oct-24 A	01-Apr-25	09-Feb-25	10-Feb-25	-50	Factory Acceptance Test (FAT)							
06-1380	Delivery to Site	14	14	0%	01-Apr-25	15-Apr-25	11-Feb-25	24-Feb-25	-50								
Procurement for Soft Landscape Materials						154	154		31-Mar-25	31-Aug-25	02-Nov-24	04-Apr-25	-149				
06-1790	Material Submission and Approval	60	60	0%	31-Mar-25	29-May-25	02-Nov-24	31-Dec-24	-149	Update Original Duration from 112d to 94d							
06-1800	Material Procurement & Nursery	94	94	0%	30-May-25	31-Aug-25	01-Jan-25	04-Apr-25	-149								
Procurement for Weighbridge System						40	31		29-Oct-24 A	30-Apr-25	11-Jan-25	10-Feb-25	-79				
06-2240(1)	Delivery to Site (EIAC Equipment)	40	31	22.5%	29-Oct-24 A	30-Apr-25	11-Jan-25	10-Feb-25	-79	Delivery to Site (EIAC Equipment)							
Procurement for Truck Wash System						59	59		13-Apr-25							10-Jun-25	22-Jan-25
06-2290(1)	Material Submission and Approval	29	29	0%	13-Apr-25	11-May-25	22-Jan-25	19-Feb-25	-81	Material Submission and Approval							
06-2300(1)	Material & Equipment Procurement	30	30	0%	12-May-25	10-Jun-25	20-Feb-25	21-Mar-25	-81								
06-2310(1)	Factory Acceptance Test (FAT)	30	30	0%	12-May-25	10-Jun-25	20-Feb-25	21-Mar-25	-81	Factory Acceptance Test (FAT)							
06-2320(1)	Delivery to Site	30	30	0%	12-May-25	10-Jun-25	20-Feb-25	21-Mar-25	-81								
Procurement for Hard Landscape Materials (Paving, Greening, Furniture and Lighting)						182	92		20-Sep-23 A	30-Jun-25	09-Nov-24	08-Feb-25	-142				
06-7000(6)	Material Submission and Approval	60	32	46.67%	20-Sep-23 A	01-May-25	09-Nov-24	10-Dec-24	-142	Material Submission and Approval							
06-7010(6)	Material Procurement	60	60	0%	02-May-25	30-Jun-25	11-Dec-24	08-Feb-25	-142								
Procurement for Curtain Wall Materials						394	90		30-Apr-24 A	28-Jun-25	14-Jul-26	11-Oct-26	470				
06-8200(6D)	Material Submission and Approval	60	18	70%	30-Apr-24 A	17-Apr-25	14-Jul-26	31-Jul-26	470	Material Submission and Approval							
06-8210(6D)	Material & Equipment Procurement	90	18	15%	18-Oct-24 A	17-Apr-25	14-Jul-26	31-Jul-26	470								
06-8220(6D)	Factory Acceptance Test (FAT)	60	60	0%	31-Mar-25	29-May-25	14-Jul-26	11-Sep-26	470	Factory Acceptance Test (FAT)							
06-8230(6D)	Delivery to Site	90	90	0%	31-Mar-25	28-Jun-25	14-Jul-26	11-Oct-26	470								
Off-site Precasting of Facade Panels						859	97		14-Feb-23 A	05-Jul-25	05-Dec-24	04-Apr-25	-92				
06-8040(6D)	Procurement of Precast Concrete Wall Panel Moulding & Fabrication	205	46	77.56%	14-Feb-23 A	15-May-25	05-Dec-24	19-Jan-25	-116	Procurement of Precast Concrete Wall Panel Moulding & Fabrication							
Turbine Hall						30	8		08-Nov-24 A							07-Apr-25	11-Jan-25
06-8150	Delivery to Site	30	8	73.33%	08-Nov-24 A	07-Apr-25	11-Jan-25	18-Jan-25	-79	Delivery to Site							
Process Building						90	22		21-Oct-24 A							21-Apr-25	11-Dec-24
06-8160	Precasting of Concrete Panels	60	15	75%	21-Oct-24 A	14-Apr-25	11-Dec-24	26-Dec-24	-110	Precasting of Concrete Panels							
06-8170	Factory Acceptance Test (FAT)	60	7	88.33%	05-Nov-24 A	06-Apr-25	11-Dec-24	18-Dec-24	-110								
06-8180	Delivery to Site	60	22	63.33%	20-Nov-24 A	21-Apr-25	11-Dec-24	02-Jan-25	-110	Delivery to Site							
Mechanical Treatment Plant						60	60		31-Mar-25							29-May-25	04-Feb-25
06-8190	Precasting of Concrete Panels	37	37	0%	31-Mar-25	06-May-25	04-Feb-25	12-Mar-25	-55	Precasting of Concrete Panels							
06-8200	Factory Acceptance Test (FAT)	30	30	0%	15-Apr-25	14-May-25	19-Feb-25	20-Mar-25	-55								
06-8210	Delivery to Site	30	30	0%	30-Apr-25	29-May-25	06-Mar-25	04-Apr-25	-55	Factory Acceptance Test (FAT)							
Water Treatment Plant						45	45		31-Mar-25							14-May-25	25-Dec-24
06-8310(M82)	Precasting of Concrete Panels	37	37	0%	31-Mar-25	06-May-25	25-Dec-24	30-Jan-25	-96	Precasting of Concrete Panels							
06-8320(M82)	Factory Acceptance Test (FAT)	30	30	0%	15-Apr-25	14-May-25	09-Jan-25	07-Feb-25	-96								
06-8330(M82)	Delivery to Site	30	30	0%	15-Apr-25	14-May-25	09-Jan-25	07-Feb-25	-96	Factory Acceptance Test (FAT)							
Administration Building						35	35		25-Apr-25							29-May-25	31-Dec-24
06-8250	Precasting of Concrete Panels	21	21	0%	25-Apr-25	15-May-25	31-Dec-24	20-Jan-25	-115	Precasting of Concrete Panels							
06-8260	Factory Acceptance Test (FAT)	21	21	0%	02-May-25	22-May-25	07-Jan-25	27-Jan-25	-115								
06-8270	Delivery to Site	14	14	0%	16-May-25	29-May-25	21-Jan-25	03-Feb-25	-115	Factory Acceptance Test (FAT)							
Chimney						97	97		31-Mar-25							05-Jul-25	05-Dec-24
06-8280	Steel Claddings Fabrication	67	67	0%	31-Mar-25	05-Jun-25	05-Dec-24	09-Feb-25	-116	Steel Claddings Fabrication							
06-8290	Factory Acceptance Test (FAT)	60	60	0%	07-May-25	05-Jul-25	11-Jan-25	11-Mar-25	-116								
Maritime Works						2092	144		30-Nov-19 A	21-Aug-25	08-Nov-24	01-Sep-25	11				
Marine Construction						2092	144		30-Nov-19 A	21-Aug-25	08-Nov-24	01-Sep-25	11				
Phase I - Construction of Perimeter Seawalls						2078	144		30-Nov-19 A	21-Aug-25	19-Nov-24	01-Sep-25	11				
Seawall and Berth at DCM Area						2078	144		30-Nov-19 A	21-Aug-25	19-Nov-24	24-Apr-25	-119				
Seawall Structural Works						2078	144		30-Nov-19 A	21-Aug-25	19-Nov-24	24-Apr-25	-119				
08-1115(3)	Caisson infill, Solid ballast, toe protection, precast concrete blocks ..etc Laying	250	5	98.18%	30-Nov-19 A	04-Apr-25	27-Nov-24	01-Dec-24	-124	Caisson infill, Solid ballast, toe protection, precast concrete blocks ..etc Laying							
Remain Works						1398	144		10-Oct-21 A							21-Aug-25	19-Nov-24
08-1120	Construction of Seawall and Wave Wall Extension from +3mPD to Deck Level for Seawall A	220	10	95.55%	10-Oct-21 A	09-Apr-25	22-Nov-24	01-Dec-24	-129	Construction of Seawall and Wave Wall Extension from +3mPD to Deck Level for Seawall A							
08-1120-1(6)	Construction of Seawall and Wave Wall Extension from +3mPD to Deck Level for Seawall B	220	2	99.31%	10-Oct-21 A	01-Apr-25	30-Nov-24	01-Dec-24	-121								
08-1120-2(M55)	Construction of Seawall and Wave Wall Extension from +3mPD to Deck Level for Seawall B No. C1 & C2 (Caisson A2 & A3)	60	13	78.75%	28-Jun-23 A	12-Apr-25	19-Nov-24	01-Dec-24	-132	Construction of Seawall and Wave Wall Extension from +3mPD to Deck Level for Seawall B No. C1 & C2 (Caisson A2 & A3)							
08-1120-4(M55)	Construction of Seawall and Wave Wall Extension from +3mPD to Deck Level for Seawall B No. C73 & C734	60	9	84.51%	01-Dec-23 A	09-Apr-25	20-Nov-24	29-Nov-24	-130								
08-1320(6)	Construction of Rear Wall Buttress & Panel for Seawall A	150	144	4%	10-Feb-25 A	21-Aug-25	02-Dec-24	24-Apr-25	-119	Construction of Seawall and Wave Wall Extension from +3mPD to Deck Level for Seawall B No. C73 & C734							
Seawall at Dredging Area						160	7		20-Jan-23 A							07-Apr-25	25-Aug-25
Remain Works						160	7		20-Jan-23 A	07-Apr-25	25-Aug-25	01-Sep-25	148				
08-1170	Construction of Seawall and Wave Wall Extension from +3mPD to Deck Level (Bay 1 to Bay 8)	160	7	95.5%	20-Jan-23 A	07-Apr-25	25-Aug-25	01-Sep-25	148	Construction of Seawall and Wave Wall Extension from +3mPD to Deck Level (Bay 1 to Bay 8)							
Phase II - Reclamation, Breakwater and Berth Construction						387	144		10-May-24 A							21-Aug-25	08-Nov-24
Breakwater						120	120		24-Apr-25	21-Aug-25	05-May-25	01-Sep-25	11				
Remain Works						120	120		24-Apr-25	21-Aug-25	05-May-25	01-Sep-25	11				
08-1310(7)	Breakwater Profile Barrier and Pavement Road	120	120	0%	24-Apr-25	21-Aug-25	05-May-25	01-Sep-25	11	Breakwater Profile Barrier and Pavement Road							
Seawall and Berth at Marine Access						346	103		10-May-24 A							11-Jul-25	08-Nov-24
Remain Works						30	24		10-May-24 A	23-Apr-25	08-Nov-24	01-Dec-24	-143				
08-1330(2)	Construction of Seawall and Wave Wall Extension from +3mPD to Deck Level	30	24	20%	10-May-24 A	23-Apr-25	08-Nov-24	01-Dec-24	-143	Construction of Seawall and Wave Wall Extension from +3mPD to Deck Level							

Actual Work

Remaining Work

Critical Remaining Work

Milestone

Actual Milestone

Critical Milestone

3-Month Rolling Programme (March 2025)

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Activity ID	Activity Name	Original Duration	Remaining Duration	Activity % Complete	Current Start	Current Finish	Late Start	Late Finish	Total Float	M88 Remarks	2025			
											Mar 88	Apr 89	May 90	Jun 91
10-2500(M6D)	Fire Boat Access	90	90		12-Apr-25	11-Jul-25	08-Mar-25	06-Jun-25	-35					
	08-2500(6D)	Construction of Fire Boat Access	90	90	0%	12-Apr-25	11-Jul-25	08-Mar-25	06-Jun-25	-35				
Foundation Works		614	39		05-Aug-23 A	09-May-25	02-Nov-24	10-Feb-25	-87					
Sky Deck Foundation		82	20		23-Jun-24 A	20-Apr-25	04-Nov-24	24-Nov-24	-146					
Sky Deck Pile Caps Construction		82	20		23-Jun-24 A	20-Apr-25	04-Nov-24	24-Nov-24	-146					
09-2730(M62)	Excavation to Pile Cap Formation	21	6	70%	23-Jun-24 A	06-Apr-25	04-Nov-24	10-Nov-24	-146			Excavation to Pile Cap Formation		
09-2740(M62)	Pile Cut-off & Capping Plate (2 Welders @ 2nri/d)	21	7	66%	03-Jul-24 A	13-Apr-25	10-Nov-24	17-Nov-24	-146			Pile Cut-off & Capping Plate (2 Welders @ 2nri/d)		
09-2750(M62)	Pile Caps Construction	30	15	50%	27-Aug-24 A	20-Apr-25	10-Nov-24	24-Nov-24	-146			Pile Caps Construction		
Process Building - Waste Bunker & Tipping Hall Bld Foundation		26	2		05-Aug-23 A	02-Apr-25	02-Nov-24	04-Nov-24	-149					
Process Building Pile Cap Construction		26	2		05-Aug-23 A	02-Apr-25	02-Nov-24	04-Nov-24	-149					
Pile Cap Stage 3 (Module 3 Between Grid PB22 to PB32)		26	2		05-Aug-23 A	02-Apr-25	02-Nov-24	04-Nov-24	-149					
Process Building (Module 3) WWTP		26	2		05-Aug-23 A	02-Apr-25	02-Nov-24	04-Nov-24	-149					
09-1260	Pile Caps and Raft Foundation Construction (60m x 24m 4set@100m2/7day)	26	2	92.12%	05-Aug-23 A	02-Apr-25	02-Nov-24	04-Nov-24	-149			Pile Caps and Raft Foundation Construction (60m x 24m 4set@100m2/7day)		
ACC Equipment Foundation		22	22		31-Mar-25	21-Apr-25	03-Dec-24	24-Dec-24	-118					
ACC Pile Cap Construction		22	22		31-Mar-25	21-Apr-25	03-Dec-24	24-Dec-24	-118					
09-1720-1(M58)	On-grade Slab Construction Grid ACA-ACG, AC3-AC4	22	22	0%	31-Mar-25	21-Apr-25	03-Dec-24	24-Dec-24	-118			On-grade Slab Construction Grid ACA-ACG, AC3-AC4		
Reception Pavilion Foundation		30	30		09-Apr-25	09-May-25	30-Nov-24	29-Dec-24	-130					
09-2100	Formation, Compaction & Raft Foundation Construction	30	30	0%	09-Apr-25	09-May-25	30-Nov-24	29-Dec-24	-130			Formation, Compaction & Raft Foundation Construction		
Weighbridge Foundation		14	14		24-Apr-25	07-May-25	28-Jan-25	10-Feb-25	-86					
09-2710(6F)	Excavation & Construction of Weighbridge Bays and Cast-in bolts	14	14	0%	24-Apr-25	07-May-25	28-Jan-25	10-Feb-25	-86			Excavation & Construction of Weighbridge Bays and Cast-in bolts		
Superstructure Works		527	159		25-Oct-23 A	06-Sep-25	05-Nov-24	11-Oct-26	401					
Administration & Viewing Gallery Bld Structure		60	60		31-Mar-25	29-May-25	06-Dec-24	03-Feb-25	-115					
10-1080(M63)	Facade Structural Frame Installation	60	60	0%	31-Mar-25	29-May-25	06-Dec-24	03-Feb-25	-115			Facade Structural Frame Installation		
Sky Deck Structure		116	116		05-Apr-25	30-Jul-25	10-Nov-24	05-Mar-25	-146					
10-2310 (M55)	Construction of RC Column (16nr, 0.9m Dia x 11m, 3 pours @ 5d/pour with 4 formwork sets)	45	45	0%	05-Apr-25	20-May-25	10-Nov-24	24-Dec-24	-146			Construction of RC Column (16nr, 0.9m Dia x 11m, 3 pours @ 5d/pour)		
10-2315 (7)	Beam & Slab to Deck Level app.+18mPD (appx. 600m3)	30	30	0%	11-May-25	10-Jun-25	16-Dec-24	14-Jan-25	-146			Beam & Slab to Deck Level app.+18mPD		
10-2320 (M55)	Sky Deck Steel Structure Erection	50	50	0%	10-Jun-25	30-Jul-25	15-Jan-25	05-Mar-25	-146					
Process Building - Waste Bunker & Tipping Hall Bld Structure		156	36		30-Nov-24 A	05-May-25	25-Nov-24	11-Oct-26	524					
Waste & Ash Bunker Bld Structure		156	36		30-Nov-24 A	05-May-25	25-Nov-24	11-Oct-26	524					
Process Building Waste & Ash Bunker Bld Structural Steel Roof		150	30		30-Nov-24 A	29-Apr-25	11-Jan-25	25-Feb-25	-63					
10-2220(7)	Module 1 Bunker Roof Cladding Installation	35	4	90%	30-Nov-24 A	03-Apr-25	11-Jan-25	14-Jan-25	-79			Module 1 Bunker Roof Cladding Installation		
10-2220-1(M81)	Module 2 Bunker Roof Cladding Installation	30	14	52%	24-Feb-25 A	14-Apr-25	29-Jan-25	12-Feb-25	-60			Module 2 Bunker Roof Cladding Installation		
10-2220-2(M81)	Module 3 Bunker Roof Cladding Installation	30	30	0%	31-Mar-25	29-Apr-25	27-Jan-25	25-Feb-25	-63			Module 3 Bunker Roof Cladding Installation		
Process Building Waste & Ash Bunker Bld Structure Between Bunker 1 and 2		11	11		31-Mar-25	10-Apr-25	01-Oct-26	11-Oct-26	549					
10-2410 (M78)	Beam & Slab to +11.58mPD and +12.4mPD	11	11	0%	31-Mar-25	10-Apr-25	01-Oct-26	11-Oct-26	549			Beam & Slab to +11.58mPD and +12.4mPD		
Process Building Waste & Ash Bunker Bld Structure Between Bunker 2 and 3		11	11		31-Mar-25	10-Apr-25	25-Nov-24	05-Dec-24	-126					
10-2480 (M78)	Beam & Slab to +11.58mPD and +12.4mPD	11	11	0%	31-Mar-25	10-Apr-25	25-Nov-24	05-Dec-24	-126	Remove Successor 10-2490 (M78) FF0		Beam & Slab to +11.58mPD and +12.4mPD		
Process Building Waste & Ash Bunker Bld Misc. Steel Structure		36	36		31-Mar-25	05-May-25	21-Dec-24	25-Jan-25	-100					
10-2360-6(M81)	Ash Crane Runway Beam at Module 3	36	36	0%	31-Mar-25	05-May-25	21-Dec-24	25-Jan-25	-100			Ash Crane Runway Beam at Module 3		
Process Building - Boiler & Flue Gas Treatment Bld Structure		437	69		25-Oct-23 A	07-Jun-25	23-Jan-25	04-Apr-25	-64					
Steel Structure		120	12		25-Oct-23 A	11-Apr-25	04-Feb-25	15-Feb-25	-55					
Boiler Building Steel Structure		120	12		25-Oct-23 A	11-Apr-25	04-Feb-25	15-Feb-25	-55					
Process Building (Module 2) Steel Structure Erection		60	11		25-Oct-23 A	11-Apr-25	04-Feb-25	15-Feb-25	-54					
10-1680	Roof Cladding Installation	60	11	81.33%	25-Oct-23 A	11-Apr-25	04-Feb-25	15-Feb-25	-54			Roof Cladding Installation		
Process Building (Module 3) Process Building Steel Structure Erection		60	12		12-Dec-23 A	11-Apr-25	04-Feb-25	15-Feb-25	-55					
10-1720	Roof Cladding Installation	60	12	80%	12-Dec-23 A	11-Apr-25	04-Feb-25	15-Feb-25	-55			Roof Cladding Installation		
Process Building Internal Partition Wall and Staircase		190	69		09-Nov-24 A	07-Jun-25	23-Jan-25	04-Apr-25	-64					
10-1850	RC Partition and Staircase at Module 1	90	22	76%	09-Nov-24 A	21-Apr-25	04-Feb-25	25-Feb-25	-55	Add Successor 11-1130 FF0		RC Partition and Staircase at Module 1		
10-1860	RC Partition and Staircase at Module 2	69	62	10%	08-Mar-25 A	01-Jun-25	23-Jan-25	26-Mar-25	-66	Update Actual Start Date		RC Partition and Staircase at Module 2		
10-1870	RC Partition and Staircase at Module 3	69	69	0%	31-Mar-25	07-Jun-25	26-Jan-25	04-Apr-25	-64	Remove Successor 11-1130 FF0		RC Partition and Staircase at Module 3		
Chimney Structure		40	40		18-Apr-25	28-May-25	25-Mar-25	04-May-25	-24					
10-2060-1	Chimney Roof Slab (47th Pour)	40	40	0%	18-Apr-25	28-May-25	25-Mar-25	04-May-25	-24			Chimney Roof Slab (47th Pour)		
Mechanical Treatment Plant Bld Structure		50	50		31-Mar-25	19-May-25	31-Dec-24	04-Apr-25	-45					
10-2135(7C)	Heli Pad @+26.5mPD	21	21	0%	31-Mar-25	20-Apr-25	31-Dec-24	20-Jan-25	-90			Heli Pad @+26.5mPD		
10-2140	Column & Wall to +27.28mPD	21	21	0%	04-Apr-25	04-Jan-25	04-Jan-25	24-Jan-25	-90			Column & Wall to +27.28mPD		
10-2150	Roof Slab @+27.28mPD	21	21	0%	08-Apr-25	28-Apr-25	08-Jan-25	28-Jan-25	-90			Roof Slab @+27.28mPD		
10-2160	Roof Parapet Wall	21	21	0%	29-Apr-25	19-May-25	15-Mar-25	04-Apr-25	-45			Roof Parapet Wall		
Elevated Drive Way and Associated Structures		249	70		22-Sep-24 A	08-Jun-25	11-Jan-25	03-Jul-25	25					
Elevated Drive Way RSA to RSG (FS Control Rm & Vehicle Washing Facility)		160	70		14-Dec-24 A	08-Jun-25	11-Jan-25	03-Jul-25	25					
10-2270(M57)	Truck Washing Facility House Column and Roof Slab to +28mPD	70	70	0%	31-Mar-25	08-Jun-25	11-Jan-25	21-Mar-25	-79			Truck Washing Facility House Column and Roof Slab to +28mPD		
10-2300(M57)	Parapet Wall	30	15	50%	14-Dec-24 A	14-Apr-25	19-Jun-25	03-Jul-25	80			Parapet Wall		
Elevated Drive Way RSG to RSX (Transform Room)		95	5		22-Sep-24 A	05-Apr-25	09-Feb-25	25-Feb-25	-39					
10-2320(M57)	Wall & Column to +12.5mPD Mezzanine Level	21	4	80%	22-Sep-24 A	04-Apr-25	09-Feb-25	13-Feb-25	-50			Wall & Column to +12.5mPD Mezzanine Level		
10-2330(M57)	Beam & Slab to +12.5mPD Mezzanine Level	21	4	80%	13-Oct-24 A	04-Apr-25	09-Feb-25	13-Feb-25	-50			Beam & Slab to +12.5mPD Mezzanine Level		
10-2340(M57)	Wall & Column to +17.5 Ramp Level	21	5	75%	19-Nov-24 A	05-Apr-25	19-Feb-25	25-Feb-25	-39			Wall & Column to +17.5 Ramp Level		
Elevated Drive Way RSX to RSAB		14	32		28-Jan-25 A	01-May-25	06-Mar-25	07-Apr-25	-24					
10-2440(M81)	Wall & Column to +17.5 Ramp Level	14	32	85%	28-Jan-25 A	01-May-25	06-Mar-25	07-Apr-25	-24			Wall & Column to +17.5 Ramp Level		
Reception Pavilion Structure		63	63		09-May-25	11-Jul-25	30-Dec-24	02-Mar-25	-130					
10-2280	Reception Pavilion RC Structure Construction	30	30	0%	09-May-25	08-Jun-25	30-Dec-24	28-Jan-25	-130			Reception Pavilion RC Structure Construction		
10-2290	Roof	30	30	0%	11-Jun-25	11-Jul-25	01-Feb-25	02-Mar-25	-130					

Keppel Seghers 吉寶西格赫斯-德華聯營公司 KEPPEL SEGHERS - ZHEN HUA JOINT VENTURE												Contract No. EP/SP/66/12				環境保護署 Environmental Protection Department	
Integrated Waste Management Facilities, Phase 1																	
Activity ID		Activity Name			Original Duration	Remaining Duration	Activity % Complete	Current Start	Current Finish	Late Start	Late Finish	Total Float	M88 Remarks				

Keppel Seghers 吉寶西格赫斯-凱華聯營公司 KEPPEL SEGHERS - ZHEN HUA JOINT VENTURE												Contract No. EP/SP/66/12				環境保護署 Environmental Protection Department					
Integrated Waste Management Facilities, Phase 1																					
Activity ID		Activity Name		Original Duration	Remaining Duration	Activity % Complete	Current Start	Current Finish	Late Start	Late Finish	Total Float	M88 Remarks				2025					
														Mar 88		Apr 89		May 90		Jun 91	
11-1320		Internal Wall and Floor Finishes		120	118	2%	26-Feb-25 A	26-Jul-25	19-Dec-24	15-Apr-25	-102	Update Actual Start Date; Update Relationship from Predecessor 05-4730 from FS0 to FF0									
11-1330		External Finishes, Curtain Walls and Roof Waterproofing		90	85	6%	06-Jan-25 A	23-Jun-25	04-Feb-25	29-Apr-25	-55							External F			
11-1330-1(M63)		Facade Structural Frame Erection		136	136	0%	31-Mar-25	13-Aug-25	19-Jan-25	03-Jun-25	-71										
11-1330-2(M63)		Facade Panels Erection (272pcs. @8pcs/d)		90	90	0%	15-Jun-25	12-Sep-25	05-Apr-25	03-Jul-25	-71										
Water Treatment Plant ABWF Works				77	77		27-Feb-25 A	15-Jun-25	28-Dec-24	11-Mar-25	-96										
11-1600(7)		Door, Roller Shutter, Windows and Louvers Installation		60	54	10%	27-Feb-25 A	15-Jun-25	17-Jan-25	11-Mar-25	-96							Door, Roller Shutter, W			
11-1610(7)		Metal Railings, Platforms, Gratings, Cable trench covers Installations		62	62	0%	31-Mar-25	31-May-25	09-Jan-25	11-Mar-25	-81							Metal Railings, Platforms, Gratings, Cable trench i			
11-1620(7)		Internal Wall and Floor Finishes		62	62	0%	03-Apr-25	04-Jun-25	08-Jan-25	11-Mar-25	-85							Internal Wall and Floor Finishes			
11-1630(7)		External Finishes, and Roof Waterproofing		74	74	0%	31-Mar-25	12-Jun-25	28-Dec-24	11-Mar-25	-93							External Finishes, and Roof 1			
11-1640(7)		Facade Structural Frame Erection		62	62	0%	31-Mar-25	31-May-25	09-Jan-25	11-Mar-25	-81							Facade Structural Frame Erection			
11-1650(7)		Facade Panels Erection (272pcs. @8pcs/d)		60	60	0%	17-Apr-25	15-Jun-25	11-Jan-25	11-Mar-25	-96							Facade Panels Erector			
IWMF Substation ABWF Works				527	131		27-Sep-23 A	08-Aug-25	16-Dec-24	03-Jul-25	-36										
11-1340		Windows and Louvers Installation		60	3	95.67%	18-Dec-23 A	02-Apr-25	24-Mar-25	26-Mar-25	-7							Windows and Louvers Installation			
11-1350		Gratings, Cable trench covers Installations		90	6	93.33%	27-Dec-23 A	06-Apr-25	27-Jun-25	03-Jul-25	89							Gratings, Cable trench covers Installations			
11-1360		Internal Wall and Floor Finishes		90	2	98%	27-Sep-23 A	01-Apr-25	16-Dec-24	17-Dec-24	-105							Internal Wall and Floor Finishes			
11-1380		Roof Waterproofing		86	11	87.33%	06-May-24 A	10-Apr-25	23-Feb-25	05-Mar-25	-36							Roof Waterproofing			
11-1380-1(7C)		External Paint Finish		60	60	0%	10-Apr-25	09-Jun-25	06-Mar-25	04-May-25	-36							External Paint Finish			
11-1380-2(7C)		Green Wall Planter Installation		60	60	0%	09-Jun-25	08-Aug-25	05-May-25	03-Jul-25	-36										
11-1510(7C)		Doors, Roller Shutter		60	3	95%	05-Feb-25 A	02-Apr-25	21-May-25	23-May-25	51							Doors, Roller Shutter			
Elevated Drive Way and Associated Structures ABWF Works				154	154		08-Mar-25 A	31-Aug-25	25-Dec-24	11-Oct-26	406										
11-1430		External Finishes and Roof Waterproofing		132	132	0%	21-Apr-25	31-Aug-25	22-Feb-25	03-Jul-25	-59										
Elevated Drive Way RSA to RSG				82	72		08-Mar-25 A	11-Jun-25	22-Jan-25	03-Jul-25	23										
11-1390		Door, Roller Shutter, Windows and Louvers Installation		30	30	0%	31-Mar-25	29-Apr-25	05-Apr-25	04-May-25	5							Door, Roller Shutter, Windows and Louvers Installation			
11-1400		Metal Railings, Platforms, Gratings, Cable trench covers Installations		50	50	0%	31-Mar-25	19-May-25	05-Feb-25	26-Mar-25	-54							Metal Railings, Platforms, Gratings, Cable trench covers Installations			
11-1410		Internal Wall and Floor Finishes		60	58	3%	08-Mar-25 A	28-May-25	22-Jan-25	21-Mar-25	-67	Update Actual Start Date; Change Relationship from Predecessor from FS0 to FF0						Internal Wall and Floor Finishes			
11-1420		False ceiling and Raise Floor installation		60	60	0%	12-Apr-25	11-Jun-25	05-May-25	03-Jul-25	23							False ceiling and Raise Floor ir			
Elevated Drive Way RSG to RSU				71	71		31-Mar-25	09-Jun-25	25-Dec-24	11-Oct-26	489										
11-1390-1(M76)		Door, Roller Shutter, Windows and Louvers Installation		30	30	0%	31-Mar-25	29-Apr-25	12-Sep-26	11-Oct-26	530							Door, Roller Shutter, Windows and Louvers Installation			
11-1400-1(M76)		Metal Railings, Platforms, Gratings, Cable trench covers Installations		60	60	0%	31-Mar-25	29-May-25	05-May-25	03-Jul-25	35							Metal Railings, Platforms, Gratings, Cable trench cov			
11-1410-1(M76)		Internal Wall and Floor Finishes		57	57	0%	31-Mar-25	26-May-25	25-Dec-24	19-Feb-25	-96							Internal Wall and Floor Finishes			
11-1420-1(M76)		False ceiling and Raise Floor installation		60	60	0%	11-Apr-25	09-Jun-25	05-May-25	03-Jul-25	24							False ceiling and Raise Floor insta			
Elevated Drive Way RSU to RSAF				72	72		08-Mar-25 A	11-Jun-25	06-Feb-25	11-Oct-26	488										
11-1390-2(M76)		Door, Roller Shutter, Windows and Louvers Installation		30	30	0%	31-Mar-25	29-Apr-25	12-Sep-26	11-Oct-26	530							Door, Roller Shutter, Windows and Louvers Installation			
11-1400-2(M76)		Metal Railings, Platforms, Gratings, Cable trench covers Installations		60	60	0%	31-Mar-25	29-May-25	05-May-25	03-Jul-25	35							Metal Railings, Platforms, Gratings, Cable trench cov			
11-1410-2(M76)		Internal Wall and Floor Finishes		60	58	3%	08-Mar-25 A	28-May-25	06-Feb-25	05-Apr-25	-52	Update Actual Start Date						Internal Wall and Floor Finishes			
11-1420-2(M76)		False ceiling and Raise Floor installation		60	60	0%	12-Apr-25	11-Jun-25	05-May-25	03-Jul-25	23							False ceiling and Raise Floor ir			
Seawater Intake Chamber ABWF Works				37	37		31-Mar-25	06-May-25	17-Dec-24	26-Jan-25	-100										
11-1670(7)		Floor, wall and ceiling finishes		30	30	0%	31-Mar-25	29-Apr-25	17-Dec-24	15-Jan-25	-104							Floor, wall and ceiling finishes			
11-1680(7)		Steel platforms, metal covers, cat ladder and staircase		30	30	0%	07-Apr-25	06-May-25	17-Dec-24	15-Jan-25	-111							Steel platforms, metal covers, cat ladder and staircase			
11-1690(7)		Roller Shutter installation		30	30	0%	07-Apr-25	06-May-25	28-Dec-24	26-Jan-25	-100							Roller Shutter installation			
Building Services Installation				548	151		20-May-22 A	28-Aug-25	22-Dec-24	11-Oct-26	409										
Administration & Viewing Gallery Bld BS Works				302	120		15-Sep-24 A	28-Jul-25	08-Jan-25	22-Jul-25	-6										
12-1000		Plumbing & Drainage System		120	65	46%	21-Oct-24 A	28-Jun-25	28-Feb-25	03-May-25	-56							f			
12-1010		MVAC System		120	114	5%	28-Jan-25 A	22-Jul-25	08-Jan-25	01-May-25	-82										
12-1020		Fire Service System (Admin building)		120	46	62%	15-Sep-24 A	29-May-25	07-Jun-25	22-Jul-25	54							Fire Service System (Admin building)			
12-1030		Electrical and Lighting System		150	86	43%	15-Sep-24 A	24-Jun-25	07-Feb-25	03-May-25	-52							Electrical and Li			
12-1040		CCTV & Surveillance System		150	62	59%	05-Nov-24 A	31-May-25	03-Mar-25	03-May-25	-28							CCTV & Surveillance System			
12-1050		FS Lift & Escalator Installation		60	60	0%	30-May-25	28-Jul-25	07-May-25	05-Jul-25	-23										
Process Building - Waste Bunker & Tipping Hall Bld BS Works				303	92		11-Oct-23 A	30-Jun-25	25-Dec-24	06-May-25	-55										
12-1060		Plumbing & Drainage System		180	85	53%	11-Oct-23 A	23-Jun-25	08-Feb-25	03-May-25	-51							Plumbing			
12-1070		MVAC & OCS System		120	18	39%	14-Oct-23 A	17-Apr-25	11-Jan-25	28-Jan-25	-79							MVAC & OCS System			
12-1080		Fire Service System (Waste Bunker and Tipping Hall)		180	92	47%	11-Oct-23 A	30-Jun-25	25-Dec-24	26-Mar-25	-96										
12-1090		Electrical and Lighting System		180	81	55%	18-Oct-23 A	19-Jun-25	11-Jan-25	01-Apr-25	-79							Electrical and Li			
12-1100		Security, Surveillance & Communication System		180	40	52%	25-Apr-24 A	09-May-25	11-Jan-25	19-Feb-25	-79							Security, Surveillance & Communication System			
12-1680(7C)		FS Lift Installation (VG-L1)		60	60	0%	31-Mar-25	29-May-25	08-Mar-25	06-May-25	-23							FS Lift Installation (VG-L1)			
Process Building - Boiler & Flue Gas Bld BS Works				526	129		20-May-22 A	06-Aug-25	25-Dec-24	22-Jul-25	-15										
12-1110		Plumbing & Drainage System		180	32	82.22%	11-Oct-23 A	01-May-25	19-Jan-25	19-Feb-25	-71							Plumbing & Drainage System			
12-1120		MVAC System (Module 1 Area)		180	62	65.56%	14-Oct-23 A	31-May-25	21-Feb-25	23-Apr-25	-38							MVAC System (Module 1 Area)			
12-1120-1(7C)		MVAC System (Module 2 & 3 Area)		60	60	0%	08-Jun-25	06-Aug-25	24-May-25	22-Jul-25	-15										
12-1130		Fire Service System (Module 1 Area)		180	99	45%	11-Oct-23 A	07-Jul-25	25-Dec-24	02-Apr-25	-96										
12-1130-1(7C)		Fire Service System (Module 2 & 3 Areas)		90	90	0%	09-May-25	06-Aug-25	24-Apr-25	22-Jul-25	-15										

3-Month Rolling Programme (March 2025)
 Actual Work
  Critical Remaining Work
  Actual Milestone
 Remaining Work
 Milestone
 Critical Milestone

Keppel Seghers 吉寶西格赫斯-德華聯營公司 KEPPEL SEGHERS - ZHEN HUA JOINT VENTURE												Contract No. EP/SP/66/12				環境保護署 Environmental Protection Department								
Integrated Waste Management Facilities, Phase 1																								
Activity ID		Activity Name				Original Duration	Remaining Duration	Activity % Complete	Current Start	Current Finish	Late Start	Late Finish	Total Float	M88 Remarks										
12-2130(6D)		Diesel Generator & Electrical System (Berth)				60	60	0%	11-Jun-25	10-Aug-25	13-Aug-26	11-Oct-26	427											
12-2140(6D)		Microwave Transmission System (Berth)				60	60	0%	11-Jun-25	10-Aug-25	13-Aug-26	11-Oct-26	427											
Seawater Intake Chamber BS Works						60	60		31-Mar-25	29-May-25	25-Dec-24	05-Aug-25	68											
12-1630(7)		Plumbing & Drainage System				60	60	0%	31-Mar-25	29-May-25	25-Dec-24	22-Feb-25	-96											
12-1640(7)		MVAC System				60	60	0%	31-Mar-25	29-May-25	03-Mar-25	01-May-25	-28											
12-1650(7)		Fire Service System (Equipment/Appliance)				60	60	0%	31-Mar-25	29-May-25	07-Jun-25	05-Aug-25	68											
12-1660(7)		Electrical and Lighting System				57	57	0%	31-Mar-25	26-May-25	25-Dec-24	19-Feb-25	-96											
12-1670(7)		Security, Surveillance & Communication System				57	57	0%	31-Mar-25	26-May-25	25-Dec-24	19-Feb-25	-96											
Process Equipment Installation						637	181		01-Mar-23 A	27-Sep-25	19-Oct-24	14-Jun-25	-105											
Process Building - Waste Bunker & Tipping Hall Bld Process Equipment Installation						566	110		01-Mar-23 A	18-Jul-25	19-Oct-24	15-Apr-25	-94											
Equipment, Piping and Instrument Installation and Connection Works						566	110		20-Sep-23 A	18-Jul-25	19-Oct-24	01-Apr-25	-108											
Process Building (Module 1)						38	38		31-Mar-25	07-May-25	06-Jan-25	12-Feb-25	-84											
12-3020(6F)		Pipe Testing				38	38	0%	31-Mar-25	07-May-25	06-Jan-25	12-Feb-25	-84											
12-3030(6F)		Piping Insulation Works				32	32	0%	31-Mar-25	01-May-25	06-Jan-25	06-Feb-25	-84											
Process Building (Module 2)						227	45		15-Aug-24 A	14-May-25	19-Oct-24	11-Feb-25	-92											
12-3050(6F)		Piping Installation Works				45	43	5%	20-Mar-25 A	12-May-25	31-Dec-24	11-Feb-25	-90	Update Actual Start Date										
12-3060(6F)		Pipe Testing				45	45	0%	31-Mar-25	14-May-25	29-Dec-24	11-Feb-25	-92											
12-3070(6F)		Piping Insulation Works				45	45	0%	31-Mar-25	14-May-25	29-Dec-24	11-Feb-25	-92											
12-3075(M71)		Equipment Installation at Basin Area at +6.5mPD (included Boiler Drainage Tanks)				90	27	70%	15-Aug-24 A	26-Apr-25	19-Oct-24	14-Nov-24	-163											
Process Building (Module 3)						110	110		20-Mar-25 A	18-Jul-25	13-Dec-24	01-Apr-25	-108											
12-3090(6F)		Piping Installation Works				60	58	4%	20-Mar-25 A	27-May-25	13-Dec-24	08-Feb-25	-108	Update Actual Start Date										
12-3100(6F)		Pipe Testing				60	60	0%	23-Apr-25	22-Jun-25	06-Jan-25	06-Mar-25	-108											
12-3110(6F)		Piping Insulation Works				60	60	0%	19-May-25	18-Jul-25	01-Feb-25	01-Apr-25	-108											
Process Building (WWTP)						60	24		20-Sep-23 A	26-Apr-25	04-Nov-24	28-Nov-24	-149											
12-3160(6F)		Embedded Piping Installation				60	24	60%	20-Sep-23 A	26-Apr-25	04-Nov-24	28-Nov-24	-149											
Process Building (Cranes and Shredder)						394	81		15-Mar-24 A	19-Jun-25	06-Dec-24	15-Apr-25	-65											
Process Building (Module 1)						373	60		15-Mar-24 A	29-May-25	22-Dec-24	15-Apr-25	-44											
13-1000(M81)		Waste Crane Nos. 1 & 2 Installation @+41.6mPD				40	4	90%	08-Dec-24 A	07-Apr-25	12-Feb-25	15-Feb-25	-51											
13-1000-1(6)		Ash Crane Nos. 1 & 2 Installation @+15.3mPD				70	28	60%	20-Dec-24 A	27-Apr-25	22-Dec-24	18-Jan-25	-99											
13-1000-2(6)		Shredder No.1 Installation				39	20	50%	06-Jan-25 A	19-Apr-25	18-Jan-25	06-Feb-25	-72											
13-1000-3(6)		Waste Crane Hoists Installation (Grid PB1-PB2 and PB11-PB12)				30	6	80%	02-Dec-24 A	09-Apr-25	12-Feb-25	17-Feb-25	-51											
13-1000-5(6B)		Waste Crane Control Room 1 Equipment (+33.5)				70	35	50%	31-Oct-24 A	04-May-25	14-Jan-25	17-Feb-25	-76											
13-1000-6(6B)		EOTC & Monorail Hoist System installation in Ash Crane Control Room (+15.8mPD & +19.9mPD)				33	33	0%	31-Mar-25	02-May-25	25-Dec-24	26-Jan-25	-96											
13-1000-7(6B)		EOTC & Monorail Hoist System installation in Mechanical Shredder Area +28.5mPD				50	25	50%	28-Feb-25 A	24-Apr-25	24-Jan-25	17-Feb-25	-66	Update Actual Start Date										
13-1000-8(6B)		Monorail Hoist System installation in CCR Electrical Switch room +13.75mPD				60	60	0%	31-Mar-25*	29-May-25	15-Feb-25	15-Apr-25	-44											
13-1000-9(6B)		Monorail Hoist System installation in CCR Electrical Switch room +23mPD				60	60	0%	31-Mar-25*	29-May-25	15-Feb-25	15-Apr-25	-44											
13-1010(6B)		EOTC Hoist System installation in Main Workshop & Store +15.3mPD				60	21	65%	15-Mar-24 A	20-Apr-25	28-Jan-25	17-Feb-25	-62											
13-1020(M81)		Ash Crane Control Room 1 Equipment				4	4	0%	31-Mar-25	03-Apr-25	23-Jan-25	26-Jan-25	-67											
Process Building (Module 2)						171	81		06-Dec-24 A	19-Jun-25	06-Dec-24	03-Mar-25	-108											
13-1004(M81)		Waste Crane Nos. 3 Installation				30	3	90%	11-Dec-24 A	17-Apr-25	23-Feb-25	25-Feb-25	-50											
13-1004-1(M71)		Ash Crane No. 3 Installation @+15.3mPD				70	28	60%	21-Dec-24 A	27-Apr-25	22-Dec-24	18-Jan-25	-99											
13-1004-2(M71)		Shredder No.2 Installation				41	28	30%	22-Jan-25 A	28-Apr-25	09-Jan-25	06-Feb-25	-80											
13-1004-3(M71)		Waste Crane Hoist Installation (Grid PB21-PB22)				30	6	80%	06-Dec-24 A	23-Apr-25	26-Feb-25	03-Mar-25	-50											
13-1004-6(M71)		EOTC & Monorail Hoist System installation in Ash Crane Control Room (+15.8mPD & +19.9mPD)				51	51	0%	11-Apr-25	31-May-25	06-Dec-24	25-Jan-25	-126	Update Original Duration from 70d to 51d										
13-1004-7(M71)		EOTC & Monorail Hoist System installation in Mechanical Shredder Area +28.5mPD				70	35	50%	28-Feb-25 A	04-May-25	14-Jan-25	17-Feb-25	-76	Update Actual Start Date										
13-1008-5(M71)		Waste Crane Control Room 2 Equipment				70	70	0%	11-Apr-25	19-Jun-25	24-Dec-24	03-Mar-25	-108											
13-1008-8(M81)		Ash Control Room 2 Equipment				30	30	0%	11-Apr-25	10-May-25	27-Dec-24	25-Jan-25	-105											
Process Building (Module 3)						124	35		10-Dec-24 A	05-May-25	22-Dec-24	03-Mar-25	-63											
13-1008-0(M81)		Waste Crane Nos. 4 Installation				30	3	90%	13-Dec-24 A	17-Apr-25	23-Feb-25	25-Feb-25	-50											
13-1008-1(M71)		Ash Crane No. 4 Installation @+15.3mPD				70	35	50%	21-Dec-24 A	05-May-25	22-Dec-24	25-Jan-25	-100											
13-1008-3(M71)		Waste Crane Hoist Installation (Grid PB31-PB32)				30	6	80%	10-Dec-24 A	23-Apr-25	26-Feb-25	03-Mar-25	-50											
Process Building (WWTP Equipment Installation)						296	56		01-Mar-23 A	25-May-25	02-Nov-24	26-Jan-25	-119											
Stage 1 (WWTP Pre-Treatment)						231	49		07-Jul-24 A	18-May-25	21-Nov-24	08-Jan-25	-130											
13-1009-1(M82)		Mechanical Equipment and Piping Installation				30	11	65%	07-Jul-24 A	10-Apr-25	21-Nov-24	01-Dec-24	-130											
13-1009-2(M82)		Electrical and instrumentation Installation				43	43	0%	06-Apr-25	18-May-25	27-Nov-24	08-Jan-25	-130											
Stage 2 (WWTP Remaining)						296	56		01-Mar-23 A	25-May-25	02-Nov-24	26-Jan-25	-119											
13-1010-1(6)		WWTP Piping and instrument installation				120	54	55.04%	01-Mar-23 A	25-May-25	04-Nov-24	27-Dec-24	-149											
13-1010-10(6E)		Provision of Temporary Power Supply for WWTP Testing & Commissioning				56	56	0%	31-Mar-25	25-May-25	02-Nov-24	27-Dec-24	-149											
13-1010-11(M63)		Cooling Tower installation @+17.5 mPd				48	48	0%	02-Apr-25	20-May-25	10-Dec-24	26-Jan-25	-113											
13-1010-12(M63)		Equipments for Bio-Tank Area @+3.3mPd				120	42	65.04%	07-Jul-24 A	14-May-25	16-Nov-24	27-Dec-24	-137											
13-1010-13(M63)		Equipments for Centrate Area, Inlet Sump & EQ Tank Area @+2.0mPd				60	33	45%	02-Jan-25 A	05-May-25	25-Nov-24	27-Dec-24	-128											
13-1010-2(6)		WWTP Electrical Equipment installation & Cable pulling and termination				54	54	0%	02-Apr-25	25-May-25	04-Nov-24	27-Dec-24	-149	Update Original Duration from 60d to 54d										
13-1010-5(6B)		EOTC Hoist System installation in WWTP +6.5				60	6	90%	15-Aug-24 A	08-Apr-25	02-Dec-24	07-Dec-24	-121											
13-1010-6(6B)		Monorail Hoist System installation in WWTP +10mPD & +13.3mPD				60	18	70%	14-Jan-25 A	20-Apr-25	20-Nov-24	07-Dec-24	-133											
13-1010-7(6B)		LVSG 6A/6B @ WWTP Switch room +13.3mPD				54	54	0%	02-Apr-25	25-May-25	04-Nov-24	27-Dec-24	-149	Update Original Duration from 60d to 54d										
13-1010-8(6B)		UPS DB @ WWTP Switch room @13.3mPd				54	54	0%	02-Apr-25	25-May-25	04-Nov-24	27-Dec-24	-149	Update Original Duration from 60d to 54d										
13-1020(6F)		Equipment Installation for Equipment Rm, Sludge Dewatering Rm & Chemical Rm Area @+6.5mPd				90	14	85%	21-Aug-24 A	15-Apr-25	14-Dec-24	27-Dec-24	-109											
13-1030(6F)		Equipment Installation for MBR Tank, DAF & Chemical Tank Area @+10.0mPd				60	24	60%	02-Dec-24 A	26-Apr-25	14-Nov-24	07-Dec-24	-139											
13-1040(6F)		Equipment for Pretreatment, Chemical Tank, RO, MBR, AQP, MCC & Control Area @+12.5mPd				60	27	55%	20-Aug-24 A	29-Apr-25	10-Nov-24	06-Dec-24	-143											
Process Building (Central Control System Installation)						120	30		01-Dec-24 A	29-Apr-25	27-Dec-24	15-Apr-25	-14											
13-1010-3(6B)		Workstations and Control System Installation (Control Room 2 +36.5mPD)				58	30	10%	01-Dec-24 A	29-Apr-25	27-Dec-24	25-Jan-25	-94											
13-1980		Control Systems Installation at CCR				30	30	0%	31-Mar-25	29-Apr-25	27-Dec-24	25-Jan-25	-94											
13-1990		Cable laying and Termination				30	30	0%	31-Mar-25	29-Apr-25	27-Dec-24	25-Jan-25	-94											
3-Month Rolling Programme (March 2025)													Actual Work				Critical Remaining Work				Actual Milestone			
PAGE 9 OF 16													Remaining Work				Milestone				Critical Milestone			

Keppel Seghers 吉寶西格赫斯-德華聯營公司 KEPPEL SEGHERS - ZHEN HUA JOINT VENTURE			Contract No. EP/SP/66/12										環境保護署 Environmental Protection Department	
Integrated Waste Management Facilities, Phase 1														
2025														
Mar 88 Apr 89 May 90 Jun 91														
13-2160(6B) DCS Installation 30 30 0% 31-Mar-25 29-Apr-25 27-Dec-24 25-Jan-25 -94 13-2210(6B) CMMS Installation 30 30 0% 31-Mar-25 29-Apr-25 27-Dec-24 25-Jan-25 -94 13-2260(6B) IDMS installation 30 30 0% 31-Mar-25 29-Apr-25 27-Dec-24 25-Jan-25 -94 13-2270(6B) OMS Installation 30 30 0% 31-Mar-25 29-Apr-25 27-Dec-24 25-Jan-25 -94 13-2280(6D) Monorail Hoist System installation in CCR Electrical Switch room +13.75mPD 30 30 0% 31-Mar-25 29-Apr-25 17-Mar-25 15-Apr-25 -14														
Process Building (Switch Room) 1663020-Aug-24 A29-Apr-2504-Dec-2414-Jan-25-105														
13-1000-4(6B) Waste Crane Switch room E&I Equipment installation @+29.5mPd, inclusive of Control Chair and Junction box in WCCR 60 30 50% 15-Nov-24 A 29-Apr-25 16-Dec-24 14-Jan-25 -105 13-1010-4(6B) Workstations and Control System Installation (Switch Room +28.25mPD) 45 23 50% 04-Dec-24 A 22-Apr-25 08-Dec-24 30-Dec-24 -113 13-2280(6B) Transformer @ Process Bldg. switch room x4 Nos. @+13.3 mPD 90 5 95% 07-Sep-24 A 04-Apr-25 26-Dec-24 30-Dec-24 -95 13-2280-1(6B) LVSG 1A/1B and 2A/2B (below Toilet/Server Room - Process building Switch room) 60 12 80% 21-Oct-24 A 11-Apr-25 04-Dec-24 15-Dec-24 -117 13-2280-2(6B) UPS @ Process Building Switch room and Battery room 90 25 70% 20-Aug-24 A 24-Apr-25 05-Dec-24 29-Dec-24 -116														
Process Building - Boiler House & Flue Gas Treatment Bld Process Equipment Installation 21612601-Dec-24 A03-Aug-2519-Oct-2412-Mar-25-144														
Process Building (Installation TPU Module) 21612601-Dec-24 A03-Aug-2519-Oct-2421-Feb-25-163														
TPU Train 1 1223201-Dec-24 A01-May-2526-Oct-2406-Feb-25-84														
13-1070 Pipe Insulation Works 32 32 0% 31-Mar-25 01-May-25 04-Jan-25 04-Feb-25 -86 13-1080 Electrical instrument and Cabling Works 60 21 65% 01-Dec-24 A 20-Apr-25 17-Jan-25 06-Feb-25 -73 13-1100 Boiler Refractory works 60 22 63.33% 21-Feb-25 A 21-Apr-25 26-Oct-24 16-Nov-24 -156														
TPU Train 2 913631-Dec-24 A05-May-2519-Oct-2406-Feb-25-88														
13-1160 Pipe Insulation Works 32 32 0% 31-Mar-25 01-May-25 04-Jan-25 04-Feb-25 -86 13-1170 Electrical instrument and Cabling Works 46 16 65% 31-Dec-24 A 16-Apr-25 21-Jan-25 06-Feb-25 -68 13-1190 Boiler Refractory works 60 36 40% 24-Feb-25 A 05-May-25 19-Oct-24 23-Nov-24 -163														
TPU Train 3 727231-Mar-2510-Jun-2517-Nov-2411-Feb-25-119														
13-1250 Pipe Insulation Works 46 46 0% 31-Mar-25 15-May-25 28-Dec-24 11-Feb-25 -93 13-1260 Electrical instrument and Cabling Works 31 31 0% 31-Mar-25 30-Apr-25 11-Dec-24 10-Jan-25 -110 13-1280 Boiler Refractory works 50 50 0% 22-Apr-25 10-Jun-25 17-Nov-24 05-Jan-25 -156 Update Original Duration from 60d to 50d; Change Relationship from Predecessor 13-1100 from FS-15 to SS0; Update Actual Start Date														
TPU Train 4 868630-Mar-25 A24-Jun-2524-Nov-2411-Feb-25-133														
13-1310 Boiler Condition Check and Repair 7 7 0% 30-Mar-25 A 06-Apr-25 22-Jan-25 28-Jan-25 -68 Update Actual Start Date 13-1340 Pipe Insulation Works 46 46 0% 31-Mar-25 15-May-25 28-Dec-24 11-Feb-25 -93 13-1350 Electrical instrument and Cabling Works 31 31 0% 31-Mar-25 30-Apr-25 11-Dec-24 10-Jan-25 -110 13-1370 Boiler Refractory works 50 50 0% 06-May-25 24-Jun-25 24-Nov-24 12-Jan-25 -163 Update Original Duration from 60d to 50d														
TPU Train 5 11211231-Mar-2520-Jul-2521-Nov-2414-Feb-25-156														
13-1490 Boiler Condition Check and Repair 8 8 0% 15-Apr-25 22-Apr-25 24-Jan-25 31-Jan-25 -81 Update Original Duration from 9d to 8d 13-1520 Pipe Insulation Works 46 46 0% 31-Mar-25 15-May-25 17-Dec-24 31-Jan-25 -104 13-1530 Electrical instrument and Cabling Works 39 39 0% 31-Mar-25 08-May-25 21-Nov-24 29-Dec-24 -130 13-1540 Boiler Pressure Test 15 15 0% 15-Apr-25 29-Apr-25 04-Dec-24 18-Dec-24 -132 13-1550 Boiler Refractory works 50 50 0% 01-Jun-25 20-Jul-25 27-Dec-24 14-Feb-25 -156 Update Original Duration from 60d to 50d														
TPU Train 6 12612631-Mar-2503-Aug-2521-Nov-2421-Feb-25-163														
13-1400 Boiler Condition Check and Repair 8 8 0% 01-May-25 08-May-25 24-Jan-25 31-Jan-25 -97 13-1430 Pipe Insulation Works 46 46 0% 31-Mar-25 15-May-25 17-Dec-24 31-Jan-25 -104 13-1440 Electrical instrument and Cabling Works 39 39 0% 31-Mar-25 08-May-25 21-Nov-24 29-Dec-24 -130 13-1450 Boiler Pressure Test 15 15 0% 30-Apr-25 14-May-25 19-Dec-24 02-Jan-25 -132 13-1460 Boiler Refractory works 50 50 0% 15-Jun-25 03-Aug-25 03-Jan-25 21-Feb-25 -163 Update Original Duration from 60d to 50d														
Process Building (Installation of Flue Gas Module) 16610731-Dec-24 A15-Jul-2521-Nov-2412-Mar-25-125														
FGC Train 1 1014231-Dec-24 A11-May-2506-Jan-2523-Feb-25-77														
13-1580 FGC Unit Condition Check and Repair 42 42 0% 31-Mar-25 11-May-25 13-Jan-25 23-Feb-25 -77 13-1610 Pipe Insulation Works 32 32 0% 31-Mar-25 01-May-25 06-Jan-25 06-Feb-25 -84 13-1620 Electrical instrument and Cabling Works 46 16 65% 31-Dec-24 A 16-Apr-25 21-Jan-25 06-Feb-25 -68														
FGC Train 2 1014231-Dec-24 A11-May-2504-Jan-2523-Feb-25-77														
13-1650 FGC Unit Condition Check and Repair 42 42 0% 31-Mar-25 11-May-25 13-Jan-25 23-Feb-25 -77 13-1680 Pipe Insulation Works 32 32 0% 31-Mar-25 01-May-25 04-Jan-25 04-Feb-25 -86 13-1690 Electrical instrument and Cabling Works 46 16 65% 31-Dec-24 A 16-Apr-25 21-Jan-25 06-Feb-25 -68														
FGC Train 3 424231-Mar-2511-May-2511-Dec-2404-Feb-25-96														
13-1720 FGC Unit Condition Check and Repair 42 42 0% 31-Mar-25 11-May-25 25-Dec-24 04-Feb-25 -96 13-1750 Pipe Insulation Works 38 38 0% 31-Mar-25 07-May-25 22-Dec-24 28-Jan-25 -99 13-1760 Electrical instrument and Cabling Works 31 31 0% 31-Mar-25 30-Apr-25 11-Dec-24 10-Jan-25 -110														
FGC Train 4 707031-Mar-2508-Jun-2501-Dec-2408-Feb-25-120														
13-1790 FGC Unit Condition Check and Repair 70 70 0% 31-Mar-25 08-Jun-25 01-Dec-24 08-Feb-25 -120 13-1820 Pipe Insulation Works 38 38 0% 31-Mar-25 07-May-25 22-Dec-24 28-Jan-25 -99 13-1830 Electrical instrument and Cabling Works 31 31 0% 31-Mar-25 30-Apr-25 11-Dec-24 10-Jan-25 -110														
FGC Train 5 929231-Mar-2530-Jun-2521-Nov-2402-Mar-25-120														
13-1860 FGC Unit Condition Check and Repair 70 70 0% 22-Apr-25 30-Jun-25 23-Dec-24 02-Mar-25 -120 13-1890 Pipe Insulation Works 46 46 0% 31-Mar-25 15-May-25 17-Dec-24 31-Jan-25 -104 13-1900 Electrical instrument and Cabling Works 39 39 0% 31-Mar-25 08-May-25 21-Nov-24 29-Dec-24 -130														
FGC Train 6 10710731-Mar-2515-Jul-2521-Nov-2412-Mar-25-125														
13-1930 FGC Unit Condition Check and Repair 70 70 0% 07-May-25 15-Jul-25 02-Jan-25 12-Mar-25 -125 13-1935(6A) Installation 4 nos. of Transformers for Process Module 3 14 14 0% 31-Mar-25 13-Apr-25 16-Dec-24 29-Dec-24 -105 13-1960 Pipe Insulation Works 46 46 0% 31-Mar-25 15-May-25 17-Dec-24 31-Jan-25 -104 13-1970 Electrical instrument and Cabling Works 39 39 0% 31-Mar-25 08-May-25 21-Nov-24 29-Dec-24 -130														
ACC Equipment Installation 40510115-May-24 A09-Jul-2505-Nov-2428-Jan-25-162														
ACC Equipment 1 Installation 3352815-May-24 A27-Apr-2505-Nov-2425-Jan-25-92														
13-2000-1(M63) Condensate Tank & Equipments Delivery and installation (Module 1) 80 8 90% 15-May-24 A 07-Apr-25 05-Nov-24 12-Nov-24 -146														
3-Month Rolling Programme (March 2025)														
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Actual Work Remaining Work Critical Remaining Work Milestone Actual Milestone Critical Milestone														

3-Month Rolling Programme (March 2025)
 Actual Work
  Critical Remaining Work
  Actual Milestone
 Remaining Work
 Milestone
 Critical Milestone

3-Month Rolling Programme (March 2025)
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Actual Work

Remaining Work

Critical Remaining Work

Milestone

Actual Milestone

Critical Milestone

Keppel Seghers 吉寶西格赫斯-德華聯營公司 KEPPEL SEGHERS - ZHEN HUA JOINT VENTURE												Contract No. EP/SP/66/12				環境保護署 Environmental Protection Department			
Integrated Waste Management Facilities, Phase 1																			
Activity ID	Activity Name	Original Duration	Remaining Duration	Activity % Complete	Current Start	Current Finish	Late Start	Late Finish	Total Float	M88 Remarks	2025								
											Mar 88	Apr 89	May 90	Jun 91					
14-4210(7)	Watermain Laying - ACC Area to CCCW (Appx. 70m @6m/3d)	35	35	0%	14-Apr-25	18-May-25	16-Jan-25	19-Feb-25	-88								Watermain Laying - ACC Area to CCCW (Appx. 70m @6m/3d)		
14-4220(7)	Watermain Laying - ACC to Substation and Turbine Hall (Appx. 90m @6m/3d)	45	45	0%	14-Apr-25	28-May-25	06-Jan-25	19-Feb-25	-98								Watermain Laying - ACC to Substation and Turbine Hall		
14-4230(7)	Watermain Laying - Substation to Reception Pavilion (Approx. 240m @6m/3d)	120	120	0%	14-Apr-25	11-Aug-25	04-Jan-25	03-May-25	-100										
14-4240(7)	Watermain Laying - FH Along UT9 (approx. 350m @6m/d)	60	60	0%	14-Apr-25	12-Jun-25	24-Apr-25	22-Jun-25	10								Watermain Laying - FH Along UT9		
14-4250(7)	Watermain Laying - FH Along UT8 (approx. 450m @6m/d)	75	75	0%	14-Apr-25	27-Jun-25	23-May-25	05-Aug-25	39								Watermain Laying - FH Along UT8		
Drainage Works		278	165		25-Oct-24 A	11-Sep-25	02-Dec-24	01-Oct-25	20										
Overtopping Drain System		158	127		17-Feb-25 A	05-Aug-25	02-Feb-25	01-Oct-25	58										
East Culvert (3.5m x 2.5m x 118m)		85	85		05-Apr-25	28-Jun-25	01-May-25	01-Oct-25	95										
14-2020	Rectangular Section (69m @10m/5d)	40	40	0%	05-Apr-25	14-May-25	23-Aug-25	01-Oct-25	140								Rectangular Section (69m @10m/5d)		
14-2030	Trapezoidal Section (159m @10m/5d)	60	60	0%	30-Apr-25	28-Jun-25	01-May-25	29-Jun-25	1										
West Culvert (2.5m x 2.5m x 102m)		158	127		17-Feb-25 A	05-Aug-25	02-Feb-25	09-Jun-25	-56										
14-3010	Pipe Section (69m @5m/d)	32	27	15%	17-Feb-25 A	27-Apr-25	02-Feb-25	01-Mar-25	-56								Pipe Section (69m @5m/d)		
14-3020	Rectangular Section (184m @10m/5d)	100	100	0%	27-Apr-25	05-Aug-25	02-Mar-25	09-Jun-25	-56										
U/G Storm Drainage System		268	165		25-Oct-24 A	11-Sep-25	02-Dec-24	19-Jul-25	-54										
14-1000(6D)	External Drainage System Construction Works (Common trench construction Utility Trench)	220	165	25%	14-Nov-24 A	11-Sep-25	02-Dec-24	15-May-25	-119										
14-1010(M81)	Construction of Outfall-01	60	54	10%	10-Feb-25 A	29-May-25	27-May-25	19-Jul-25	51								Construction of Outfall-01		
14-1020(M81)	Construction of Outfall-02	60	56	6%	30-Dec-24 A	26-May-25	24-May-25	19-Jul-25	55								Construction of Outfall-02		
14-1030(M81)	Construction of Outfall-03	60	20	66.67%	01-Dec-24 A	19-Apr-25	26-Apr-25	15-May-25	26								Construction of Outfall-03		
14-1040(M81)	Construction of Outfall-04	60	33	45%	25-Oct-24 A	02-May-25	17-Jun-25	19-Jul-25	78								Construction of Outfall-04		
14-1050(7C)	Construction of Outfall-05	60	60	0%	31-Mar-25*	29-May-25	21-May-25	19-Jul-25	51								Construction of Outfall-05		
U/G Wastewater Drainage System		181	122		02-Jan-25 A	31-Jul-25	19-Mar-25	19-Jul-25	-11										
14-1000-1(M55)	Sewage Transfer System for IWMF Vessels (Caisson 13)	60	60	0%	01-Jun-25	31-Jul-25	21-May-25	19-Jul-25	-11										
14-1000-1(M55)10	External Sewage Drainage System Construction Works (Common trench construction Utility Trench)	133	122	8%	02-Jan-25 A	31-Jul-25	19-Mar-25	19-Jul-25	-11										
Brine Discharge Pipe		90	90		22-Apr-25	21-Jul-25	21-Apr-25	19-Jul-25	-2										
14-1050(M81)	Brine Discharge Pipe Laying in utility trench (UT5 & UT6)	30	30	0%	22-Apr-25	22-May-25	20-Jun-25	19-Jul-25	59								Brine Discharge Pipe Laying in utility trench (UT5 & UT6)		
14-1060(M81)	U/G Brine Discharge Pipe Laying	30	30	0%	22-Apr-25	22-May-25	20-Jun-25	19-Jul-25	59								U/G Brine Discharge Pipe Laying		
14-1070(M81)	Brine Discharge Outfall Prefabrication	60	60	0%	22-Apr-25	21-Jun-25	21-Apr-25	19-Jun-25	-2								Brine Discharge Outfall Prefabrication		
14-1080(M81)	Brine Discharge Outfall construction	30	30	0%	21-Jun-25	21-Jul-25	20-Jun-25	19-Jul-25	-2								Brine Discharge Outfall construction		
Earthing System		180	29		28-Apr-22 A	28-Apr-25	24-Dec-24	21-Jan-25	-97										
16-1900-2(6)	Installation of Ground Earthing Mesh	180	29	60.39%	28-Apr-22 A	28-Apr-25	24-Dec-24	21-Jan-25	-97								Installation of Ground Earthing Mesh		
External Road Works		210	210		24-Apr-25	19-Nov-25	02-Dec-24	29-Jun-25	-143										
14-1010-2(6D)	Road Works (including high mast lighting)	210	210	0%	24-Apr-25	19-Nov-25	02-Dec-24	29-Jun-25	-143										
Works By CLP		246	34		20-Jul-24 A	03-May-25	27-Mar-25	29-Apr-25	-4										
Remaining Installation Works by CLP		246	34		20-Jul-24 A	03-May-25	27-Mar-25	29-Apr-25	-4										
15-1007	Telecom / Digital / Security / Metering Equipment Installation	210	19	90.95%	20-Jul-24 A	18-Apr-25	27-Mar-25	14-Apr-25	-4								Telecom / Digital / Security / Metering Equipment Installation		
15-1010	132kV cable termination at IWMF 132 kV Switchgears and associated HVAC Circuits Test	60	19	68.33%	02-Feb-25 A	20-Apr-25	29-Mar-25	16-Apr-25	-4								132kV cable termination at IWMF 132 kV Switchgears and associated HVAC Circuits Test		
15-1010-1(6)	Overall testing and commissioning of 2 x CHS-IWMF circuits	34	34	0%	31-Mar-25	03-May-25	27-Mar-25	29-Apr-25	-4								Overall testing and commissioning of 2 x CHS-IWMF circuits		
Metering & Energization		57	57		07-May-25	02-Jul-25	28-Jan-25	11-Oct-26	466										
Energization of IWMF Substation		37	37		23-May-25	29-Jun-25	06-Mar-25	27-Mar-25	-94										
15-1027(7)	Connection for incoming power supply	21	21	0%	23-May-25	12-Jun-25	06-Mar-25	26-Mar-25	-78								Connection for incoming power supply		
15-1030	Energization of Incoming Power Supply Main System	0	0	0%	29-Jun-25	27-Mar-25	27-Mar-25		-94								Energization of Incoming Power Supply Main System		
Energization of Submain		57	57		07-May-25	02-Jul-25	28-Jan-25	11-Oct-26	466										
15-1040-2(7)	Energization of Sub System - Process Building Module 2 Area (EDG Temporary Power)	4	4	0%	13-May-25	16-May-25	05-Feb-25	08-Feb-25	-97								Energization of Sub System - Process Building Module 2 Area (EDG Temporary Power)		
15-1040-3(7)	Energization of Sub System - Process Building Module 3 Area (EDG Temporary Power)	4	4	0%	23-May-25	26-May-25	28-Jan-25	31-Jan-25	-115								Energization of Sub System - Process Building Module 3 Area (EDG Temporary Power)		
15-1040-4(7)	Energization of Sub System - Elevated Driveway & WWTP Area (EDG Temporary Power)	4	4	0%	12-May-25	15-May-25	23-Mar-25	26-Mar-25	-50								Energization of Sub System - Elevated Driveway & WWTP Area (EDG Temporary Power)		
15-1040-6(7)	Energization of Sub System - Turbine Hall Area (EDG Temporary Power)	4	4	0%	07-May-25	10-May-25	07-Apr-25	10-Apr-25	-30								Energization of Sub System - Turbine Hall Area (EDG Temporary Power)		
15-1040-7(7)	Energization of Sub System - MT & WTP Area (EDG Temporary Power)	4	4	0%	07-May-25	10-May-25	08-Mar-25	11-Mar-25	-60								Energization of Sub System - MT & WTP Area (EDG Temporary Power)		
15-1040-8(7)	Energization of Sub System - CCCW Building Area (EDG Temporary Power)	4	4	0%	07-May-25	10-May-25	19-Feb-25	22-Feb-25	-77								Energization of Sub System - CCCW Building Area (EDG Temporary Power)		
15-1040-9(7)	Energization of Incoming Power Supply Sub System - Administration Building Area	4	4	0%	29-Jun-25	02-Jul-25	08-Oct-26	11-Oct-26	466								Energization of Incoming Power Supply Sub System - Administration Building Area		
15-1042-11(7)	Energization of Incoming Power Supply Sub System - Berth Area	4	4	0%	29-Jun-25	02-Jul-25	08-Oct-26	11-Oct-26	466								Energization of Incoming Power Supply Sub System - Berth Area		
Testing & Commissioning		385	142		15-May-24 A	19-Aug-25	19-Nov-24	07-Oct-26	414										
SAT & System Commissioning Tests		385	142		15-May-24 A	19-Aug-25	19-Nov-24	07-Oct-26	414										
132kV Incoming Power Supply System T&C		37	37		16-Apr-25	22-May-25	28-Jan-25	05-Mar-25	-78										
16-1000	Systemwise Construction																		

Keppel Seghers 吉寶西格赫斯-德華聯營公司 KEPPEL SEGHERS - ZHEN HUA JOINT VENTURE												Contract No. EP/SP/66/12		環境保護署 Environmental Protection Department																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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Activity ID	Activity Name	Original Duration	Remaining Duration	Activity % Complete	Current Start	Current Finish	Late Start	Late Finish	Total Float	M88 Remarks	2025																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
											Mar 88	Apr 89	May 90	Jun 91																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
	16-1940(1) Systemwise Construction Completion Inspection and Testing	7	7	0%	16-Apr-25	22-Apr-25	03-Feb-25	09-Feb-25	-72																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									

Keppel Seghers 吉寶西格赫斯-德華聯營公司 KEPPEL SEGHERS - ZHEN HUA JOINT VENTURE		Contract No. EP/SP/66/12										環境保護署 Environmental Protection Department							
Integrated Waste Management Facilities, Phase 1																			
Activity ID	Activity Name	Original Duration	Remaining Duration	Activity % Complete	Current Start	Current Finish	Late Start	Late Finish	Total Float	M88 Remarks	2025								
												Mar 88		Apr 89		May 90		Jun 91	
Turbine Hall Module 1																			
16-1300(7)	Turbine Module 1 Systemwise Construction Completion Inspection	20	20	0%	26-Apr-25	15-May-25	21-Dec-24	09-Jan-25	-126		Turbine Module 1 Systemwise Construction Completion Inspection								
16-1310(7)	Turbine Module 1 Conduct Site Acceptance Tests	60	60	0%	17-May-25	15-Jul-25	10-Jan-25	10-Mar-25	-127										
Turbine Hall Module 2																			
16-1330(7)	Turbine Module 2 Systemwise Construction Completion Inspection	30	30	0%	16-May-25	14-Jun-25	10-Jan-25	08-Feb-25	-126		Turbine Module 2 Systemwise Construction Completion Inspection								
16-1340(7)	Turbine Module 2 Conduct Site Acceptance Tests	60	60	0%	16-Jun-25	14-Aug-25	09-Feb-25	09-Apr-25	-127										
Turbine Hall Module 3																			
16-1360(7)	Turbine Module 3 Systemwise Construction Completion Inspection	30	30	0%	05-Jun-25	04-Jul-25	09-Jan-25	07-Feb-25	-147										
Desalination & Demineralization Process T&C																			
Stage 1 (WTP Potable to Demin)																			
16-1295-1(M82)	Systemwise Construction Completion Inspection	13	13	0%	31-Mar-25	12-Apr-25	14-Jan-25	26-Jan-25	-76		Systemwise Construction Completion Inspection								
16-1295-2(M82)	Conduct Site Acceptance Tests	13	13	0%	03-Apr-25	15-Apr-25	17-Jan-25	29-Jan-25	-76		Conduct Site Acceptance Tests								
16-1295-3(M82)	Conduct System Commissioning Tests	15	15	0%	16-Apr-25	30-Apr-25	30-Jan-25	13-Feb-25	-76		Conduct System Commissioning Tests								
16-2000(6D)	Provision of fresh water for testing	0	0	0%	01-May-25	13-Feb-25			-76		Provision of fresh water for testing								
Stage 2 (WTP Remaining)																			
16-1300	Systemwise Construction Completion Inspection	13	13	0%	04-May-25	16-May-25	28-Jan-25	09-Feb-25	-96		Systemwise Construction Completion Inspection								
16-1310	Conduct Site Acceptance Tests	30	30	0%	17-May-25	15-Jun-25	10-Feb-25	11-Mar-25	-96		Conduct Site Acceptance Tests								
16-1320	Conduct System Commissioning Tests	30	30	0%	16-Jun-25	15-Jul-25	12-Mar-25	10-Apr-25	-96										
WWTP Process T&C																			
Stage 1 (WWTP Pre-Treatment)																			
16-1625-1(M82)	Systemwise Construction Completion Inspection	7	7	0%	17-May-25	23-May-25	07-Jan-25	13-Jan-25	-130		Systemwise Construction Completion Inspection								
16-1625-2(M82)	Conduct Site Acceptance Tests (SAT)	13	13	0%	17-May-25	29-May-25	07-Jan-25	19-Jan-25	-130		Conduct Site Acceptance Tests (SAT)								
16-1625-3(M82)	Conduct System Commissioning Tests (with temporary power)	30	30	0%	30-May-25	28-Jun-25	20-Jan-25	18-Feb-25	-130										
16-1640	WWTP 1st Waste Water In for T&C	0	0	0%	29-Jun-25		19-Feb-25		-130										
16-1645	WWTP System Seeding	7	7	0%	29-Jun-25	05-Jul-25	19-Feb-25	25-Feb-25	-130										
Stage 2 (WWTP Remaining)																			
16-1330	Systemwise Construction Completion Inspection	7	7	0%	26-May-25	01-Jun-25	28-Dec-24	03-Jan-25	-149		Systemwise Construction Completion Inspection								
16-1340	Conduct Site Acceptance Tests (SAT)	30	30	0%	26-May-25	24-Jun-25	28-Dec-24	26-Jan-25	-149		Conduct Site Acceptance Tests (SAT)								
16-1350	Conduct System Commissioning Tests	30	30	0%	25-Jun-25	24-Jul-25	27-Jan-25	25-Feb-25	-149										
Ash Treatment Equipments T&C																			
16-1970-1(M68)	Systemwise Construction Completion Inspection - Module 2	30	30	0%	31-Mar-25	29-Apr-25	22-Jan-25	20-Feb-25	-68		Systemwise Construction Completion Inspection - Module 2								
Crane System T&C																			
Crane System T&C for Module 1 Hot Comissioning																			
Waste Crane System T&C																			
16-1390	Systemwise Construction Completion Inspection	7	7	0%	11-May-25	17-May-25	18-Feb-25	24-Feb-25	-82		Systemwise Construction Completion Inspection								
16-1400	Conduct Site Acceptance Tests	15	15	0%	18-May-25	01-Jun-25	25-Feb-25	11-Mar-25	-82		Conduct Site Acceptance Tests								
16-1410	Conduct System Commissioning Tests	15	15	0%	02-Jun-25	16-Jun-25	12-Mar-25	26-Mar-25	-82		Conduct System Commissioning Tests								
Ash Crane System T&C																			
16-1970	Systemwise Construction Completion Inspection	14	14	0%	03-May-25	16-May-25	27-Jan-25	09-Feb-25	-96		Systemwise Construction Completion Inspection								
16-1980	Conduct Site Acceptance Tests	30	30	0%	17-May-25	15-Jun-25	10-Feb-25	11-Mar-25	-96		Conduct Site Acceptance Tests								
16-1990	Conduct System Commissioning Tests	30	30	0%	16-Jun-25	15-Jul-25	12-Mar-25	10-Apr-25	-96										
Crane System T&C for Module 2 & 3 Hot Comissioning																			
Waste Crane System T&C																			
16-2000	Systemwise Construction Completion Inspection	7	7	0%	20-Jun-25	26-Jun-25	04-Mar-25	10-Mar-25	-108		Systemwise Construction Completion Inspection								
16-2010	Conduct Site Acceptance Tests	15	15	0%	27-Jun-25	11-Jul-25	11-Mar-25	25-Mar-25	-108		Conduct Site Acceptance Tests								
Ash Crane System T&C																			
16-2030	Systemwise Construction Completion Inspection	14	14	0%	01-Jun-25	14-Jun-25	26-Jan-25	08-Feb-25	-126		Systemwise Construction Completion Inspection								
16-2040	Conduct Site Acceptance Tests	30	30	0%	15-Jun-25	14-Jul-25	09-Feb-25	10-Mar-25	-126		Conduct Site Acceptance Tests								
On-shore Crane System T&C																			
16-2030(M58)	Systemwise Construction Completion Inspection	7	7	0%	27-May-25	03-Jun-25	25-Feb-25	03-Mar-25	-92		Systemwise Construction Completion Inspection								
16-2040(M58)	Conduct Site Acceptance Tests	15	15	0%	03-Jun-25	18-Jun-25	04-Mar-25	18-Mar-25	-92		Conduct Site Acceptance Tests								
16-2050(M58)	Conduct System Commissioning Tests	15	15	0%	18-Jun-25	03-Jul-25	19-Mar-25	02-Apr-25	-92										
Weighbridge System T&C																			
16-1420	Systemwise Construction Completion Inspection	7	7	0%	29-May-25	04-Jun-25	25-Feb-25	03-Mar-25	-93		Systemwise Construction Completion Inspection								
16-1430	Conduct Site Acceptance Tests	7	7	0%	05-Jun-25	11-Jun-25	04-Mar-25	10-Mar-25	-93		Conduct Site Acceptance Tests								
16-1440	Conduct System Commissioning Tests	30	30	0%	12-Jun-25	11-Jul-25	11-Mar-25	09-Apr-25	-93										
Control SCADA Systems T&C																			
16-1780	Systemwise Construction Completion Inspection	14	14	0%	16-Apr-25	29-Apr-25	12-Jan-25	25-Jan-25	-94		Systemwise Construction Completion Inspection								
16-1790	Conduct Site Acceptance Tests	30	30	0%	30-Apr-25	29-May-25	26-Jan-25	24-Feb-25	-94		Conduct Site Acceptance Tests								
16-1800	Conduct System Commissioning Tests	30	30	0%	30-May-25	28-Jun-25	25-Feb-25	26-Mar-25	-94										
CEMS Systems T&C																			
16-1970(6G)	Systemwise Construction Completion Inspection	3	3	0%	12-Jun-25	14-Jun-25	10-Mar-25	12-Mar-25	-94		Systemwise Construction Completion Inspection								
16-1980(6G)	Conduct Site Acceptance Tests	7	7	0%	15-Jun-25	21-Jun-25	13-Mar-25	19-Mar-25	-94		Conduct Site Acceptance Tests								
16-1990(6G)	Conduct System Commissioning Tests	7	7	0%	22-Jun-25	28-Jun-25	20-Mar-25	26-Mar-25	-94		Conduct System Commissioning Tests								
Earthing & Lightning Protection System T&C																			
16-1970(6D)	Systemwise Construction Completion Inspection	10	10	0%	31-Mar-25	09-Apr-25	29-Dec-24	07-Jan-25	-92		Systemwise Construction Completion Inspection								
16-1980(6D)	Conduct Site Acceptance Tests (SAT)	14	14	0%	10-Apr-25	23-Apr-25	08-Jan-25	21-Jan-25	-92		Conduct Site Acceptance Tests (SAT)								
16-1990(6D)	Conduct System Commissioning Tests	14	14	0%	29-Apr-25	12-May-25	22-Jan-25	04-Feb-25	-97		Conduct System Commissioning Tests								
Vehicle Ferry Ramp T&C																			
16-1540(7)	Systemwise Construction Completion Inspection	10	10	0%	13-May-25	22-May-25	15-Feb-25	24-Feb-25	-87		Systemwise Construction Completion Inspection								
16-1550(7)	Conduct Site Acceptance Tests (SAT)	15	15	0%	23-May-25	06-Jun-25	25-Feb-25	11-Mar-25	-87	Update Original Duration from 30d to 15d	Conduct Site Acceptance Tests (SAT)								
16-1560(7)	Conduct System Commissioning Tests	15	15	0%	07-Jun-25	21-Jun-25	12-Mar-25	26-Mar-25	-87	Update Original Duration from 30d to 15d	Conduct System Commissioning Tests								

Activity ID	Activity Name	Original Duration	Remaining Duration	Activity % Complete	Current Start	Current Finish	Late Start	Late Finish	Total Float	M88 Remarks	2025			
											Mar 88	Apr 89	May 90	Jun 91
Incineration Processing T&C														
Module 1 & Equipments (Train 1 & 2)		336	93		15-May-24 A	19-Aug-25	19-Nov-24	12-Apr-25	-129					
16-1540	Site Acceptance Test (Systemwise Construction Completion Inspection)	120	32	73.33%	15-May-24 A	01-May-25	06-Jan-25	06-Feb-25	-84					
16-1550	Site Acceptance Test (Pre-commissioning Test)	120	55	54.17%	10-Jun-24 A	24-May-25	30-Dec-24	22-Feb-25	-91					
16-1660	System Commissioning Test (Hot Commissioning Phase 1)	71	71	0%	22-Apr-25	01-Jul-25	15-Jan-25	26-Mar-25	-97	(Activity revised to incorporated the latest information for Hot Commissioning Test.) Update Original Duration from 80d to 71d				
Module 2 & Equipments (Train 3 & 4)		263	142		30-Oct-24 A	19-Aug-25	19-Nov-24	09-Apr-25	-132					
16-1560	Site Acceptance Test (Systemwise Construction Completion Inspection)	120	64	46.67%	30-Oct-24 A	02-Jun-25	19-Dec-24	20-Feb-25	-102					
16-1570	Site Acceptance Test (Pre-commissioning Test)	90	124	0%	17-Feb-25 A	01-Aug-25	19-Nov-24	22-Mar-25	-132					
16-1720	System Commissioning Test (Hot Commissioning Phase 1)	71	71	0%	10-Jun-25	19-Aug-25	29-Jan-25	09-Apr-25	-132	(Activity revised to incorporated the latest information for Hot Commissioning Test.) Update Original Duration from 80d to 71d				
Module 3 & Equipments (Train 5 & 6)		113	142		01-Mar-25 A	19-Aug-25	22-Nov-24	12-Apr-25	-129					
16-1580	Site Acceptance Test (Systemwise Construction Completion Inspection)	92	82	10.87%	01-Mar-25 A	20-Jun-25	31-Dec-24	22-Mar-25	-90	Update Actual Start Date				
16-1590	Site Acceptance Test (Pre-commissioning Test)	90	142	0%	23-Mar-25 A	19-Aug-25	22-Nov-24	12-Apr-25	-129	Update Actual Start Date				

Appendix B Summary of Implementation Status of Environmental Mitigation

Appendix B**Table B.1 Implementation Schedule for Air Quality Measures for the IWMF at the artificial island near SKC**

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines	Implementation Status and Remarks
				Des	C	O	Dec		
S3b.8.1	<u>Air Pollution Control (Construction Dust) Regulation & Good Site Practices</u> • Use of regular watering, with complete coverage, to reduce dust emissions from exposed site surfaces and unpaved roads, particularly during dry weather. • Use of frequent watering for particularly dusty construction areas and areas close to ASRs. • Side enclosure and covering of any aggregate or dusty material storage piles to reduce emissions. Where this is not practicable owing to frequent usage, watering shall be applied to aggregate fines. • Open stockpiles shall be avoided or covered. Where possible, prevent placing dusty material storage piles near ASRs. • Tarpaulin covering of all dusty vehicle loads transported to, from and between site locations. • Establishment and use of vehicle wheel and body washing facilities at the exit points of the site. • Provision of wind shield and dust extraction units or similar dust mitigation measures at the loading	Work site / During the construction period	Contractor		✓			Air Pollution Control (Construction Dust) Regulation	Implemented N/A for dust control measures for transportation outside site boundary

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines	Implementation Status and Remarks
				Des	C	O	Dec		
	points, and use of water sprinklers at the loading area where dust generation is likely during the loading process of loose material, particularly in dry seasons/ periods. • Imposition of speed controls for vehicles on unpaved site roads. Ten kilometers per hour is the recommended limit. • Where possible, routing of vehicles and positioning of construction plant should be at the maximum possible distance from ASRs • Instigation of an environmental monitoring and auditing program to monitor the construction process in order to enforce controls and modify method of work if dusty conditions arise.								
S3b.6.3	<u>Odour Removal by Deodorizers</u> • Deodorizers with 95% odour removal efficiency would be installed for the air ventilated from the mechanical treatment plant before discharge to the atmosphere	Waste reception halls, the waste storage area, the mechanical treatment plant / During design & operation phase	IWMF Operator	✓		✓		EIAO-TM	N/A
S3b.8.2	<u>Air Pollution Control and Stack Monitoring</u>	IWMF stack emissions / During	IWMF Operator	✓		✓		EIAO-TM, Supporting Document for	N/A

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines	Implementation Status and Remarks
				Des	C	O	Dec		
	- Air pollution control and stack monitoring system will be installed for the IWMF to ensure that the emissions from the IWMF stack will meet the proposed target emission limits. - Voluntary Enhancement Measures in Flue Gas Cleaning and Emission Monitoring: - Two-stage bag filter system with reagent recirculation; - In addition to SCR, provide SNCR for removal of NO_x; tighten emission limit for half-hourly and daily NO_x to 160 mg/m³ and 80 mg/m³ respectively; - Well-mixed feed waste: to minimize the fluctuation of pollutant loading on the flue gas treatment system; - Two more AQMSs would be set up at South Lantau and Shek Kwu Chau respectively; - Limit levels will be set under the IWMF DBO contract to require that waste feed shall cease if any of the air pollutant has exceeded 95% of the emission concentration limit as stipulated in the Special Process license; and	design & operation phase						Application for Variation of Environmental Permit (EP-429/2012)	

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines	Implementation Status and Remarks
				Des	C	O	Dec		
	6. Each incineration chamber shall be fitted with auxiliary burners to ensure complete burn out of the combustion gases.								
-	<u>Treated Fly Ash and Air Pollution Control Residues:</u> - During testing and commissioning, the Contractor shall sample and test every container of treated fly ash and air pollution control residues for conformance to the Incineration Residue Pollution Control Limits and leachability criteria shown in Table 2 of the Environmental Permit. If a test result confirms that any one of the samples does not conform to the limits and the criteria, the Contractor shall be required to sample and test every container of treated fly ash and air pollution control residues for conformance to the Incineration Residue Pollution Control Limits and leachability criteria for the next six months. - During the first six months of operation, if the requirements in (a) could be fully conformed with, the Contractor shall sample and test every shipload of treated fly ash and air pollution control residues for conformance to the Incineration Residue Pollution Control Limits and leachability criteria shown in Table 2	IWMF stack emissions / During design & operation phase	IWMF Operator	✓		✓		Supporting Document for Application for Variation of Environmental Permit (EP-429/2012)	N/A

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines	Implementation Status and Remarks
				Des	C	O	Dec		
	of the Environmental Permit. The Contractor shall take two samples from each shipload for testing and the Contractor shall not dispose of any of that shipload of treated fly ash and air pollution control residues until the test results confirm that the two samples conform to the limits and the criteria. If a test result confirms that any one of the two samples does not conform to the limits and the criteria, the Contractor shall be required to sample and test every shipload of treated fly ash and air pollution control residues for conformance to the Incineration Residue Pollution Control Limits and leachability criteria for the next six months. The Contractor shall make due allowance in the Design and the Operation for the time to sample and test treated fly ash and air pollution control residues before disposal. • Provided that there is no non-conformance to the Incineration Residue Pollution Control Limits and leachability criteria shown in Table 2 of the Environmental Permit throughout a continuous sixmonth period in the Operation Period, the testing frequency shall be reduced to monthly interval. Two samples from one shipload of treated fly ash and air								

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines	Implementation Status and Remarks
				Des	C	O	Dec		
	pollution control residues shall be collected and tested for conformance to the Incineration Residue Pollution Control Limits and leachability criteria. The Contractor shall not dispose of any of the treated fly ash and air pollution control residues in the shipload which the samples are taken until the test results confirm that the samples conform to the limits and the criteria. If the test result confirm that any one of the samples does not conform to the limits and the criteria, the Contractor shall be required to sample and test every shipload of treated fly ash and air pollution control residues for conformance to the Incineration Residue Pollution Control Limits and leachability criteria shown in Table 2 of the Environmental Permit for the next six months.								
-	<u>Bottom Ash:</u> During testing and commissioning, the Contractor shall sample and test every container of bottom ash for conformance to the leachability criteria shown in Table 2 of the Environmental Permit. If a test result confirms that any one of the samples does not conform to the criteria, the Contractor shall be required to sample and test every	IWMF stack emissions / During design & operation phase	IWMF Operator	✓		✓		Supporting Document for Application for Variation of Environmental Permit (EP-429/2012)	N/A

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines	Implementation Status and Remarks
				Des	C	O	Dec		
	container of bottom ash for conformance to the leachability criteria for the next six months. - During the first six months of operation, if the requirements in (d) could be fully conformed with, the Contractor shall sample and test one shipload of bottom ash each month for conformance to the leachability criteria shown in Table 2 of the Environmental Permit. The Contractor shall take two samples from the shipload for testing and the Contractor shall not dispose of any of that shipload of bottom ash until the test results confirm that the two samples conform to the criteria. If a test result confirms that any one of the two samples does not conform to the criteria, the Contractor shall be required to sample and test each shipload of bottom ash for conformance to the leachability criteria for the next six months. The Contractor shall make due allowance in the Design and the Operation for the time to sample and test bottom ash before disposal. - Provided that there is no non-conformance to the leachability criteria shown in Table 2 of the Environmental Permit throughout a continuous six month period in the								

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines	Implementation Status and Remarks
				Des	C	O	Dec		
	Operation Period, the Contractor shall be allowed to take two samples from any one shipload of bottom ash once every six months for conformance to the leachability criteria. The Contractor shall not dispose of any of the bottom ash in the shipload which the samples are taken until the test results confirm that the samples conform to the criteria. If the test result confirm that any one of the samples does not conform to the criteria, the Contractor shall be required to sample and test one shipload of bottom ash each month for conformance to the leachability criteria shown in Table 2 of the Environmental Permit for the next six months as stipulated above.								

* Des - Design, C - Construction, O – Operation, and Dec - Decommissioning

Table B.2 Implementation Schedule for Noise Impact Measures for the IWMF at the artificial island near SKC

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines	Implementation Status and Remarks
				Des	C	O	Dec		
S4b.8	Good site practices to limit noise emissions at source and use of quiet plant and working methods, whenever practicable.	Work Sites / Construction Period	EPD and its contractors		✓			EIAO-TM	Implemented
S4b.6 & S4b.8	All the ventilation fans installed in the below will be provided with silencers or acoustics treatment. (i) Stack of the incinerator (ii) Ventilation systems within the IWMF Enclosure and discharge silencer or other acoustic treatment equipment should be installed in the air-cooled chillers Other than provision of silencer or other acoustic treatment equipment for the stack of the incinerator and ventilation system, the detailed design should incorporate the following good practice in order to minimize the nuisance on the neighboring NSRs. (i) The exhaust of the ventilation system and any opening of the building should be located facing away from any NSRs; and (ii) Louver or other acoustic treatment equipment could also be applied to the exhaust of the ventilation system.	Within IWMF area / Construction Period	EPD and its contractors	✓		✓		EIAO-TM	N/A

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines	Implementation Status and Remarks
				Des	C	O	Dec		
-	<u>Voluntary Enhancement Measure</u> Provision of air-conditioner and double glazed windows to nearby NSR at Shek Kwu Chau (i.e. SARDA) as precautionary measures.	IWMF site	Design team, contractor, IWMF operator	✓	✓			Supporting Document for Application for Variation of Environmental Permit (EP-429/2012)	Implemented

* Des - Design, C - Construction, O – Operation, and Dec - Decommissioning

Table B.3 Implementation Schedule for Water Quality Measures for the Artificial Island near SKC

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines	Implementation Status and Remarks
				Des	C	O	Dec		
S5b.8.1.1	<u>Drainage and Construction Site Runoff</u> The site practices outlined in ProPECC PN 2/23 “Construction Site Drainage” should be followed as far as practicable in order to minimise surface runoff and the chance of erosion. These practices include the following items: - At the start of site establishment, perimeter cut-off drains to direct off-site water around the site should be constructed with internal drainage works and erosion and sedimentation control facilities implemented Channels (both temporary and permanent drainage pipes and culverts), earth bunds or sand bag barriers should be provided on site to direct storm water to silt removal facilities. The design of the temporary on-site drainage system will be undertaken by the contractor prior to the commencement of construction. - Boundaries of earthworks should be surrounded by dykes or embankments for flood protection, as necessary. - Sand/silt removal facilities such as sand/silt traps and sediment basins should be provided to remove sand/silt particles from runoff to meet the requirements of the TM-DSS. The	Work site / During the construction period	Contractor		✓			EIAO-TM; ProPECC PN 2/23; WPCO	Deficiency of Mitigation Measures but rectified by the Contractor

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines	Implementation Status and Remarks
				Des	C	O	Dec		
	design of efficient silt removal facilities should be based on the guidelines in Appendix A1 of ProPECC PN 2/23, which states that the retention time for silt/sand traps should be 5 minutes under maximum flow conditions. The detailed design of the sand/silt traps shall be undertaken by the contractor prior to the commencement of construction. • Water pumped out from foundation piles must be discharged into silt removal facilities. • Measures should be taken to minimize the ingress of site runoff and drainage into excavations. Drainage water pumped out from excavations should be discharged into storm drains via silt removal facilities. • During rainstorms, exposed slope/soil surfaces should be covered by a tarpaulin or other means, as far as practicable. Other measures that need to be implemented before, during and after rainstorms are summarized in ProPECC PN 2/23. • Exposed soil areas should be minimized to reduce potential for increased siltation and contamination of runoff. • Earthwork final surfaces should be well compacted and subsequent permanent								

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines	Implementation Status and Remarks
				Des	C	O	Dec		
	work or surface protection should be immediately performed. Open stockpiles of construction materials or construction wastes on-site should be covered with tarpaulin or similar fabric during rainstorms.								
S5b.8.1.2	<u>General Construction Activities</u> Construction solid waste should be collected, handled and disposed of properly to avoid entering to the nearby watercourses and public drainage system. Rubbish and litter from construction sites should also be collected to prevent spreading of rubbish and litter from the site area. It is recommended to clean the construction sites on a regular basis.	Work site / During the construction period	Contractor		✓			EIAO-TM; ProPECC PN 2/23; WPCO	Deficiency of Mitigation Measures but rectified by the Contractor

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines	Implementation Status and Remarks
				Des	C	O	Dec		
S5b.8.1.3	There is a need to apply to EPD for a discharge license for discharge of effluent from the construction site under the WPCO. The discharge quality must meet the requirements specified in the discharge license. All the run-off and wastewater generated from the works areas should be treated so that it satisfies all the standards listed in the TM-DSS. The beneficial uses of the treated effluent for other on-site activities such as dust suppression and general cleaning etc., can minimize water consumption and reduce the effluent discharge volume. If monitoring of the treated effluent quality from the works areas is required during the construction phase of the Project, the monitoring should be carried out in accordance with the relevant WPCO license which is under the ambit of regional office of EPD.	Work site / During the construction period	Contractor		✓			EIAO-TM; ProPECC PN 2/23; WPCO	Implemented Discharge License was issued on 15/02/2022
S5b.8.1.4	<u>Accidental Spillage</u> Contractor must register as a chemical waste producer if chemical wastes would be produced from construction activities. The Waste Disposal Ordinance (Cap 354) and its subsidiary regulations in particular the Waste Disposal (Chemical Waste) (General) Regulation should be observed and complied with for control of chemical wastes.	Work site / During the construction period	Contractor		✓			EIAO-TM; ProPECC PN 2/23; WPCO; WDO	Deficiency of Mitigation Measures but rectified by the Contractor
S5b.8.1.5	Maintenance of vehicles and equipment involving activities with potential for leakage and spillage should only be undertaken within the areas which	Work site / During the construction period	Contractor		✓			EIAO-TM; ProPECC PN 2/23; WPCO; WDO	Implemented

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines	Implementation Status and Remarks
				Des	C	O	Dec		
	appropriately equipped to control these discharges.								
S5b.8.1.6	Oils and fuels should only be used and stored in designated areas which have pollution prevention facilities. All fuel tanks and storage areas should be sited on sealed areas in order to prevent spillage of fuels and solvents to the nearby watercourses. All waste oils and fuels should be collected in designated tanks prior to disposal.	Work site / During the construction period	Contractor		✓			EIAO-TM; ProPECC PN 2/23; WPCO; WDO	Deficiency of Mitigation Measures but rectified by the Contractor
S5b.8.1.7	Disposal of chemical wastes should be carried out in compliance with the Waste Disposal Ordinance. The Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes published under the Waste Disposal Ordinance details the requirements to deal with chemical wastes. General requirements are given as follows: - Suitable containers should be used to hold the chemical wastes to avoid leakage or spillage during storage, handling and transport. - Chemical waste containers should be suitably labelled, to notify and warn the personnel who are handling the wastes, to avoid accidents. - Storage area should be selected at a safe location on site and adequate space should be allocated to the storage area.	Work site / During the construction period	Contractor		✓			EIAO-TM; ProPECC PN 2/23; WPCO; WDO	Implemented

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines	Implementation Status and Remarks
				Des	C	O	Dec		
S5b.8.1.8	<u>Sewage Effluent</u> Temporary sanitary facilities, such as portable chemical toilets, should be employed on-site where necessary to handle sewage from the workforce. A licensed contractor would be responsible. For appropriate disposal and maintenance of these facilities.	Work site / During the construction period	Contractor		✓			EIAO-TM; ProPECC PN 2/23; WPCO	Implemented
S5b.8.1.9	<u>Reclamation and Construction of Breakwaters</u> - The proposed dredging and reclamation should be commenced in phases. The breakwaters and seawalls should be constructed and the reclamation should be started within the enclosed breakwaters after the completion of the breakwater. Silt curtain should be applied around caissons / blockwork during the filling of the cell to prevent the loss of fine in the filling material. - The maximum production rate for dredging for the anti-scouring protection layer shall not exceed the permitted maximum daily dredging rate and carried out within its respective distance from the nearest non-translocatable coral community by the dredging contractor as specified in S.2.18 of the Further Environmental Permit (no.:FEP-01/429/2012/A). It is recommended to employ closed grab with small capacity of 2 m³ to control the dredging rate. - Any gap that may need to be provided for marine access will be located at the middle	Work site / During the marine construction period	Contractor		✓			EIAO-TM; WPCO, Supporting Document for Application for Variation of Environmental Permit (EP-429/2012) Further Environmental Permit No. FEP-01/429/2012/A	N/A

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines	Implementation Status and Remarks
				Des	C	O	Dec		
	of the North Western seawall, away from the identified coral communities and will be shielded by silt curtains systems to control sediment plume dispersion. - The silt curtain system at marine access opening should be closed as soon as the barges passes through the marine access opening in order to minimize the period of curtain opening. Filling should only be carried out behind the silt curtain when the silt curtain is completely closed. - To enhance the effectiveness of the silt curtain at the marine access, the northern breakwater would be built before the commencement of the reclamation to reduce the current velocity towards the marine access opening. - The silt curtain system at marine access opening should be regularly checked and maintained to ensure proper functioning. - Where public fill is proposed for filling below +2.5mPD, the fine content in the public fill will be controlled to 25% which is in line with the CEDD's General Specification; - The filling for reclamation should be carried out behind the seawall. The filling material should only consist of public fill, rock and sand. The filling composition and filling rates at each filling area should follow those delineated in Table 1 of the FEP-01/429/2012/. The filling above high watermark is not restricted;								

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines	Implementation Status and Remarks
				Des	C	O	Dec		
	- No dredging should be carried out within 16m to the nearest non-translocatable coral community; - Daily site audit including full-time on-site monitoring by the ET is recommended during the dredging for anti-scouring protection layer for checking the compliance with the permitted no. of grab; - Closed grab dredger should be used to minimize the loss of sediment during the raising of the loaded grabs through the water column; - Frame-type silt curtains should be deployed around the dredging operations; - Floating-type silt curtains should be used to surround the circular cell during the sheetpiling work; - The descent speed of grabs should be controlled to minimize the seabed impact speed; - Barges should be loaded carefully to avoid splashing of material; - All barges used for the transport of dredged materials should be fitted with tight bottom seals in order to prevent leakage of material during loading and transport; - All barges should be filled to a level which ensures that material does not spill over during loading and transport to the disposal site and that adequate freeboard is								

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines	Implementation Status and Remarks
				Des	C	O	Dec		
	maintained to ensure that the decks are not washed by wave action. - No DCM works should be carried out within 100m to the nearest non-translocatable coral colony / colonies. - Silt curtains should be employed to enclose DCM field trial and any full scale DCM work to minimize the potential impacts on water aspect. - A sand blanket is to be placed on top of the marine deposit using tremie pipes prior to the DCM ground treatment to avoid seabed sediment disturbance.								
S5b.8.2.3	<u>Operational Phase Discharges</u> A pipeline drainage system will serve the development area collecting surface runoff from paved areas, roof, etc. Sustainable drainage principle would be adopted in the drainage system design to minimize peak surface runoff, maximize permeable surface and maximize beneficial use of rainwater.	Within IWMF site / During the operational phase	IWMF Operator	✓		✓		WPCO	N/A
S5b.8.2.4	Oil interceptors should be provided in the drainage system of any potentially contaminated areas (such as truck parking area and maintenance workshop) and regularly cleaned to prevent the release of oil products into the storm water drainage system in case of accidental spillages. Accidental spillage should be cleaned up as soon as practicable and all waste oils and fuels should be collected and handled in	Within IWMF site / During the operational phase	IWMF Operator	✓		✓		WPCO; WDO	N/A

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines	Implementation Status and Remarks
				Des	C	O	Dec		
	compliance with the Waste Disposal Ordinance.								
S5b.8.2.5	<u>Refuse Entrapment</u> Collection and removal of floating refuse should be performed at regular intervals for keeping the water within the Project site boundary and the neighboring water free from rubbish.	Within the Project site / During the operational phase	IWMF Operator			✓		WPCO	N/A
S5b.8.2.6	<u>Transportation of bottom ash, fly ash and APC residues to WENT Landfill for disposal</u> Covered container should be used in the shipping of the incineration waste to limit the contact between the incineration waste and the marine water. A comprehensive emergency response plan for any accidental spillage should be submitted by the operation contractor to the EPD for agreement before the operation of the facilities. Salvage and cleanup action to recover the spilled incineration waste containers following the spillage should be carried out according to the emergency response plan to mitigate the environmental impact in case of spillage.	Transportation of Incineration Ash / During the operational phase	IWMF Operator			✓			N/A

* Des - Design, C - Construction, O – Operation, and Dec - Decommissioning

Table B.4 Implementation Schedule for Waste Management Measures for the IWMF at the artificial island near SKC

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines	Implementation Status and Remarks
				Des	C	O	Dec		
6b.5.1.2	<u>Good Site Practices</u> Adverse environmental impacts in relation to waste management are not expected, provided that good site practices are strictly followed. Recommendations for good site practices during the construction activities would include: • Obtain relevant waste disposal permits from appropriate authorities, in accordance with the Waste Disposal Ordinance (Cap. 354) and subsidiary Regulations and the Land (Miscellaneous Provisions) Ordinance (Cap. 28); • Provide staff training for proper waste management and chemical handling procedures; • Provide sufficient waste disposal points and regular waste collection; • Provide appropriate measures to minimize windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers; and • Carry out regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors; • Separate chemical wastes for special handling and disposed of to licensed facility for treatment; and • Employ licensed waste collector to collect waste.	Work Site/ During Construction Period	Contractor		✓			WDO; LDO; ETWB TCW No. 19/2005; EIAO-TM	Deficiency of Mitigation Measures but rectified by the Contractor

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines	Implementation Status and Remarks
				Des	C	O	Dec		
6b.5.1.3	<u>Waste Reduction Measures</u> Good management and control can prevent the generation of a significant amount of waste. Waste reduction is best achieved at the planning and design stage, as well as by ensuring the implementation of good site practices. Recommendations to achieve waste reduction include: • Design foundation works that could minimize the amount of excavated material to be generated. • Provide training to workers on the importance of site cleanliness and appropriate waste management procedures, including waste reduction, reuse and recycling; • Sort out demolition debris and excavated materials from demolition works to recover reusable/recyclable portions (i.e. soil, broken concrete, metal etc.); • Segregate and store different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal; • Encourage the collection of aluminum cans by providing separate labelled bins to enable this waste to be segregated from other general refuse generated by the work force; • Proper storage and site practices to minimize the potential for damage or contamination of construction materials; and	Work Site/ During Design & Construction Period	Contractor	✓	✓				Implemented N/A for demolition items

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines	Implementation Status and Remarks
				Des	C	O	Dec		
	Plan and stock construction materials carefully to minimize amount of waste to be generated and to avoid unnecessary generation of waste.								
6b.5.1.7	<u>Dredged Sediment – Application of Dumping Permit</u> The project proponent should agree in advance with MFC of CEDD on the site allocation. The project proponent or contractor for the dredging works shall then apply for the site allocations of marine sediment disposal based on the prior agreement with MFC/CEDD. The project proponent or contractor should also be responsible for the application of all necessary permits from relevant authorities, including the dumping permit as required under DASO from EPD, for the disposal of dredged sediment prior to the commencement of the dredging works.	Seawall and Reclamation site / Construction Period	EPD and its contractor	✓	✓			DASO ETWB TCW 34/2002	Implemented
6b.5.1.8	<u>Dredged Sediment – Sediment Quality Report</u> The project proponent or contractor will need to satisfy the appropriate authorities that the quality of the marine sediment to be dredged has been identified according to the requirements of ETWB TCW 34/2002. This should be completed well before the dredging works and would include at least the submission of a formal Sediment Quality Report under Tier I of ETWB TCW No. 34/2002 to DEP for approval. Subject to advice from DEP, it is possible that further marine SI in	Seawall and Reclamation site / Construction Period	EPD and its contractor	✓				DASO ETWB TCW 34/2002	Implemented

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines	Implementation Status and Remarks
				Des	C	O	Dec		
	accordance with ETWB TCW 34/2002 might be necessary for the application of dumping permit under DASO. In such case, a sediment sampling and testing proposal shall be submitted to and approved by DEP before the additional marine SI works.								
6b.5.1.9	<u>Dredged Sediment – Sediment Transportation</u> The barge transporting the sediments to the designated disposal sites should be equipped with tight fitting seals to prevent leakage and should not be filled to a level that would cause overflow of materials or laden water during loading or transportation. In addition, monitoring of the barge loading shall be conducted to ensure that loss of material does not take place during transportation. Transport barges or vessels shall be equipped with automatic self-monitoring devices as specified by the DEP.	Seawall and Reclamation site / Construction Period	EPD and its contractor		✓			DASO ETWB TCW 34/2002	Implemented
6b.5.1.10	<u>Construction and Demolition Materials</u> In order to minimize the impact resulting from collection and transportation of C&D materials for off-site disposal, the excavated material arising from site formation and foundation works should be reused on-site as backfilling material and for landscaping works as far as practicable. Other mitigation requirements are listed below: • A Waste Management Plan (WMP), which becomes part of the Environmental Management Plan	Work Site/ During Design & Construction Period	Contractor	✓	✓			ETWB TCW No. 19/2005	Implemented

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines	Implementation Status and Remarks
				Des	C	O	Dec		
	(EMP), should be prepared in accordance with ETWB TCW No.19/2005; - A recording system for the amount of wastes generated, recycled and disposed (including the disposal sites) should be adopted for easy tracking; and - In order to monitor the disposal of C&D materials at public filling facilities and landfills and to control fly-tipping, a trip-ticket system should be adopted (refer to ETWB TCW No. 31/2004).								
6b.5.1.1 1– 6b.5.1.12	The Contactor should prepare and implement an EMP in accordance with ETWB TCW No.19/2005, which describes the arrangements for avoidance, reuse, recovery, recycling, storage, collection, treatment and disposal of different categories of waste to be generated from construction activities. Such a management plan should incorporate site specific factors, such as the designation of areas for segregation and temporary storage of reusable and recyclable materials. The EMP should be submitted to the Engineer for approval. The Contractor should implement waste management practices in the EMP throughout the construction stage of the Project. The EMP should be reviewed regularly and updated by the Contractor, preferably on a monthly basis.	Work Site/ During Design & Construction Period	Contractor	✓	✓			ETWB TCW No. 19/2005	Implemented

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines	Implementation Status and Remarks
				Des	C	O	Dec		
	All surplus C&D materials arising from or in connection with construction works should become the property of the Contractor when it is removed unless otherwise stated. The Contractor would be responsible for devising a system to work for on-site sorting of C&D materials and promptly removing all sorted and process materials arising from the construction activities to minimize temporary stockpiling on-site. The system should be included in the EMP identifying the source of generation, estimated quantity, arrangement for on-site sorting, collection, temporary storage areas and frequency of collection by recycling Contractors or frequency of removal off-site.								
6b.5.1.13	<u>Chemical Wastes</u> Should chemical wastes be produced at the construction site, the Contractor would be required to register with EPD as a Chemical Waste Producer and to follow the guidelines stated in the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. Good quality containers compatible with the chemical wastes should be used, and incompatible chemicals should be stored separately. Appropriate labels should be securely attached on each chemical waste container indicating the corresponding chemical characteristics of the chemical waste (such as explosive, flammable, oxidizing, irritant, toxic, harmful, or corrosive). The Contractor should employ a licensed collector to transport and dispose	Work Site/ During Construction Period	Contractor		✓			Waste Disposal (Chemical Waste) (General) Regulation	Implemented

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines	Implementation Status and Remarks
				Des	C	O	Dec		
	of the chemical wastes, to either the Chemical Waste Treatment Centre at Tsing Yi, or another licensed facility, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation.								
6b.5.1.14	<u>General Refuse</u> General refuse should be stored in enclosed bins or compaction units separate from C&D materials. A licensed waste collector should be employed by the Contractor to remove general refuse from the site, separately from C&D materials. Preferably an enclosed and covered area should be provided to reduce the occurrence of 'wind blown' light material.	Work Site/ During Construction Period	Contractor		✓			Public Health and Municipal Services Ordinance	Deficiency of Mitigation Measures but rectified by the Contractor
6b.5.1.1.1 6 – 6b.5.1.33	<u>Biogas Generation</u> The Contractor shall review the data and analysis results, and the data from further Site Investigation, if any. Subject to the review findings, the following gas protection measures may be considered if necessary: - gas monitoring after reclamation; - passive ventilation; - gas impermeable membrane; - ventilation with "at risk" rooms; - protection of utilities or below ground services;	Reclamation site (if dredging at the reclamation site is not required) / Design & Construction Period	Designer and/or contractor	✓	✓			EPD/TR8/97	N/A

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines	Implementation Status and Remarks
				Des	C	O	Dec		
	- precautions during construction works; - precautions prior to entry of belowground services								
6b.5.2.1	<u>Good Site Practices</u> It is recommended that the following good operational practices should be adopted to minimise waste management impacts: - Obtain the necessary waste disposal permits from the appropriate authorities, in accordance with the Waste Disposal Ordinance (Cap. 354) and Waste Disposal (Chemical Waste) (General) Regulation; - Nomination of an approved person to be responsible for good site practice, arrangements for collection and effective disposal to an appropriate facility of all wastes generated at the site; - Use of a waste haulier licensed to collect specific category of waste; - A trip-ticket system should be included as one of the contractual requirements and implemented by the Environmental Team to monitor the disposal of solid wastes at landfills, and to control fly tipping. Reference should be made to ETWB TCW No. 31/2004. - Training of site personnel in proper waste management and chemical waste handling procedures;	IWMF Site/During Operation Period	IWMF Operator			✓		Waste Disposal Ordinance (Cap.354); Waste Disposal (Chemical Waste) (General) Regulation; ETWB TCW No. 1/2004	N/A

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines	Implementation Status and Remarks
				Des	C	O	Dec		
	- Separation of chemical wastes for special handling and appropriate treatment at a licensed facility; - Routine cleaning and maintenance programme for drainage systems, sumps and oil interceptors; - Provision of sufficient waste disposal points and regular collection for disposal; - Adoption of appropriate measures to minimize windblown litter and dust during transportation of waste, such as covering trucks or transporting wastes in enclosed containers; and - Implementation of a recording system for the amount of wastes generated, and disposed of (including recycled the disposal sites).								
6b.5.2.2	<u>Waste Reduction Measures</u> Good management and control can prevent the generation of significant amounts of waste. It is recommended that the following good operational practices should be adopted to ensure waste reduction: - Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal; - Encourage collection of aluminum cans, plastic bottles and packaging material (e.g. carton boxes) and office	IWMF Site/ During Operation Period	IWMF Operator			✓			Implemented

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines	Implementation Status and Remarks
				Des	C	O	Dec		
	paper by individual collectors. Separate labelled bins should be provided to help segregate this waste from other general refuse generated by the work force; and Any unused chemicals or those with remaining functional capacity should be reused as far as practicable.								
6b.5.2.3	<u>Storage, Handling, Treatment, Collection and Disposal of Incineration By-Products</u> The following measures are recommended for the storage, handling and collection of the incineration by-products: - Ash should be stored in storage silos; - Ash should be handled and conveyed in closed systems fully segregated from the ambient environment; - Ash should be wetted with water to control fugitive dust, where necessary; - All fly ash and APC residues should be treated, e.g. by cement solidification or chemical stabilization, for compliance with the proposed Incineration Residue Pollution Control Limits and leachability criteria prior to disposal;	IWMF Site/ During Operation Period	IWMF Operator			✓		Incineration Residue Pollution Control Limits	N/A

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines	Implementation Status and Remarks
				Des	C	O	Dec		
	The ash should be transported in covered trucks or containers to the designated landfill site. The Contractor should provide EPD with chemical analysis results of the bottom ash, and treated fly ash and APC residues to confirm that the ash/residue can comply with the proposed Incineration Residue Pollution Control Limits before disposal.								
6b.6.3.1	<u>Fuel Oil Tank Construction and Test</u> - The fuel tank to be installed should be of specified durability. - Double skin tanks are preferred. - Underground fuel storage tank should be placed within a concrete pit. - The concrete pit shall be accessible to allow regular tank integrity tests to be carried out at regular intervals. - Tank integrity tests should be conducted by an independent qualified surveyor or structural engineer. - Any potential problems identified in the test should be rectified as soon as possible.	Fuel Oil Storage Tank/ During Design, Construction and Operation Periods	IWMF Contractor	✓	✓	✓			N/A

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines	Implementation Status and Remarks
				Des	C	O	Dec		
6b.6.3.1	<u>Fuel Oil Pipeline Construction and Test</u> - Installation of aboveground fuel oil pipelines is preferable; if underground pipelines are unavoidable, concrete lined trenches should be constructed to contain the pipelines. - Double skin pipelines are preferred. - Distance between the fuel oil refuelling points and the fuel oil storage tank shall be minimized. - Integrity tests for the pipelines should be conducted by an independent qualified surveyor or structural engineer at regular intervals. - Any potential problems identified in the test should be rectified as soon as possible.	Fuel Oil Pipelines/ During Design, Construction and Operation Periods	IWMF Contractor	✓	✓	✓			N/A
6b.6.3.1	<u>Fuel Oil Leakage Detection</u> - Installation of leak detection device at storage tank and pipelines. - Installation and use of pressure gauges (e.g. at the two ends of a filling line) in fuel filling, which allows unexpected pressure drop or difference and sign of leakage to be detected.	Fuel Oil Storage Tank and Pipelines/ During Design, Construction and Operation Periods	IWMF Contractor	✓	✓	✓			N/A
6b.6.3.1	<u>Fuel Oil Storage Tank Refuelling</u>	Fuel Oil Refuelling Point/	IWMF Operator			✓			N/A

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines	Implementation Status and Remarks
				Des	C	O	Dec		
	Storage tank refuelling (from road tanker) should only be conducted by authorized staff of the oil company using the company's standard procedures.	During Operation Period							
6b.6.3.1	<u>Fuel Oil Spillage Response</u> An Oil Spill Response Plan should be prepared by the operator to document the appropriate response procedures for oil spillage incidents in detail. General procedures to be taken in case of fuel oil spillage are presented below. - Training - Training on oil spill response actions should be given to relevant staff. The training shall cover the followings: ➤Tools & resources to combat oil spillage and fire, e.g. locations of oil spill handling equipment and fire fighting equipment; ➤General methods to deal with oil spillage and fire incidents; ➤Procedures for emergency drills in the event of oil spills and fire; and ➤Regular drills shall be carried out. - Communication -Establish communication channel with the Fire Services Department (FSD) and EPD to report any oil spillage incident	IWMF Site/ During Operation Period	IWMF Operator			✓			N/A

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines	Implementation Status and Remarks
				Des	C	O	Dec		
	so that necessary assistance from relevant department can be quickly sought. - Response Procedures -Any fuel oil spillage within the IWMF site should be immediately reported to the Plant Manager with necessary details including location, source, possible cause and extent of the spillage. -Plant Manager should immediately attend to the spillage and initiate any appropriate action to confine and clean up the spillage. The response procedures shall include the following: ➤Identify and isolate the source of spillage as soon as possible. ➤Contain the oil spillage and avoid infiltration into soil/ groundwater and discharge to storm water channels. ➤Remove the oil spillage. ➤Clean up the contaminated area. ➤If the oil spillage occurs during storage tank refuelling, the refueling operation should immediately be stopped. ➤Recovered contaminated fuel oil and the associated material to remove the spilled oil should be considered as chemical waste. The handling and disposal								

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines	Implementation Status and Remarks
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	procedures for chemical wastes are discussed in the following paragraphs.								
6b.6.3.2	<u>Chemicals and Chemical Wastes Handling & Storage</u> - Chemicals and chemical wastes should only be stored in suitable containers in purpose-built areas. - The storage of chemical wastes should comply with the requirements of the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. - The storage areas for chemicals and chemical wastes shall have an impermeable floor or surface. The impermeable floor/ surface shall possess the following properties: - Not liable to chemically react with the materials and their containers to be stored. - Able to withstand normal loading and physical damage caused by container handling - The integrity and condition of the impermeable floor or surface should be inspected at regular intervals to ensure that it is satisfactorily maintained ➤ For liquid chemicals and chemical wastes storage, the	Chemicals and Chemical Wastes Storage Area / During Operation Period	IWMF Operator			✓			N/A

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines	Implementation Status and Remarks
				Des	C	O	Dec		
	storage area should be bunded to contain at least 110% of the storage capacity of the largest containers or 20% of the total quantity of the chemicals/chemical wastes stored, whichever is the greater. ➤ Storage containers shall be checked at regular intervals for their structural integrity and to ensure that the caps or fill points are tightly closed. ➤ Chemical handling shall be conducted by trained workers under supervision.								
6b.6.3.2	<u>Chemicals and Chemical Wastes Spillage Response</u> A Chemicals and/ or Chemical Wastes Spillage Response Plan shall be prepared by the operator to document in detail the appropriate response procedures for chemicals or chemical wastes spillage incidents. General procedures to be undertaken in case of chemicals/ chemical waste spillages are presented below. • Training - Training on spill response actions should be given to relevant staff. The training shall cover the followings:	IWMF Site/ During Operation Period	IWMF Operator			✓			N/A

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines	Implementation Status and Remarks
				Des	C	O	Dec		
	➤ Tools & resources to handle spillage, e.g. locations of spill handling equipment; ➤ General methods to deal with spillage; and ➤ Procedures for emergency drills in the event of spills. • Communication - Establish communication channel with FSD and EPD to report the spillage incident so that necessary assistance from relevant department can be quickly sought. • Response Procedures - Any spillage within the IWMF site should be reported to the Plant Manager. - Plant Manager shall attend to the spillage and initiate any appropriate actions needed to confine and clean up the spillage. The response procedures shall include the followings: ➤ Identify and isolate the source of spillage as soon as possible; ➤ Contain the spillage and avoid infiltration into soil/								

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines	Implementation Status and Remarks
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	groundwater and discharge to storm water channels (in case the spillage occurs at locations out of the designated storage areas); ➤ Remove the spillage; the removal method/ procedures documented in the Material Safety Data Sheet (MSDS) of the chemicals spilled should be observed; ➤ Clean up the contaminated area (in case the spillage occurs at locations out of the designated storage areas); and ➤ The waste arising from the cleanup operation should be considered as chemical wastes.								
6b.6.3.3	<u>Preventive Measures for Incineration By-products Handling</u> The recommended measures listed below can minimize the potential contamination to the surrounding environment due to the incineration by-products: • Ash should be stored in storage silos; • Ash should be handled and conveyed in closed systems fully segregated	Storage, Handling & Collection of Incineration Ash at IWMF/ During Operation Period	IWMF Operator			✓			N/A

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines	Implementation Status and Remarks
				Des	C	O	Dec		
	from the ambient environment; - Ash should be wetted with water to control fugitive dust, where necessary; - All fly ash and APC residues should be treated, e.g. by cement solidification or chemical stabilization, for compliance with the proposed Incineration Residue Pollution Control Limits and leachability criteria prior to disposal; - The ash should be transported in covered trucks or containers to the designated landfill site.								
6b.6.3.4 -6b.6.3.6	<u>Incident Record</u> After any spillage, an incident report should be prepared by the Plant Manager. The incident report should contain details of the incident including the cause of the incident, the material spilled and estimated spillage amount, and also the response actions undertaken. The incident record should be kept carefully and able to be retrieved when necessary. The incident report should provide sufficient details for the evaluation of any environmental impacts due to the spillage and assessment of the effectiveness of measures taken.	IWMF Site/ During Operation Period	IWMF Operator			✓		Guidance Manual for Use of Risk-based Remediation Goals for Contaminated Land Management and the Guidance Note for Contaminated Land and Remediation.	N/A

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines	Implementation Status and Remarks
				Des	C	O	Dec		
	In case any spillage or accidents results in significant land contamination, EPD should be informed immediately and the IWMF operator should be responsible for the cleanup of the affected area. The responses procedures described in Section 6b.6.3.1 and Section 6b.6.3.2 of EIA report should be followed accordingly together with the land contamination assessment and remediation guidelines stipulated in the <i>Guidance Manual for Use of Risk-based Remediation Goals for Contaminated Land Management and the Guidance Note for Contaminated Land and Remediation</i> .								

* Des - Design, C - Construction, O – Operation, and Dec - Decommissioning

Table B.5 Implementation Schedule for Ecological Quality Measures for the IWMF at the artificial island near SKC

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines	Implementation Status and Remarks
				Des	C	O	Dec		
7b.8.2.1	<u>Measures to avoid direct loss of intertidal habitat</u> The site boundary has been proposed to avoid direct contact with the intertidal natural rocky shore of Shek Kwu Chau. It avoids direct loss of intertidal communities and the existing natural rocky shore habitat, where Reef Egret and White-bellied Sea Eagle have been recorded within and in the vicinity of this habitat.	IWMF site	Design team	✓				EIAO-TM	N/A
7b.8.2.2	<u>Measures to minimise loss of coastal subtidal habitat</u> Extensive coral colonies were recorded at the coastal hard bottom habitat at Shek Kwu Chau. To avoid and minimise the extensive direct impact on the coral colonies, the proposed reclamation area has been moved further offshore to minimise loss of subtidal habitat near shore.	IWMF site	Design team	✓				EIAO-TM	N/A
7b.8.2.3	<u>Zero Discharge Scheme</u> The design scheme of the Project has avoided discharge of wastewater into the marine environment. A zero discharge scheme would be adopted during the operation of the Project. An on-site wastewater treatment plant would be	IWMF site	Design team, IWMF operator	✓		✓		WPCO	N/A

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines	Implementation Status and Remarks
				Des	C	O	Dec		
	provided to treat the wastewater generated from the IWMF (mainly human sewage). The treated effluent would be re-used in the incineration plant and mechanical treatment plant, or for onsite washdown and landscape.								
7b.8.2.4	<u>Measures to avoid loss of plant species of conservation importance</u> - Landing portal construction works would not cause direct lost to the recorded individual of protected plant species, <i>Aquilaria sinensis</i>, at the coastal shrubland habitat at Cheung Sha. As a precautionary measure, the plant should be tagged with eye-catching tape and fenced off prior to works, in order to avoid any damage by workers.	Cheung Sha landing portal	Design team, Contractor	✓	✓		✓	EIAO-TM	N/A
7b.8.3.1 - 7b.8.3.15	<u>Measures to minimise water quality impact</u> Measures for water quality as recommended in Section 5b of the EIA Report should be implemented.	Work site	Design team, contractor, IWMF operator	✓	✓	✓	✓	EIAO-TM; ProPECC PN 2/23; WPCO	Implemented
7b.8.3.16 - 7b.8.3.30	<u>Measures to minimise disturbance on Finless Porpoise</u> <i>Minimisation of Habitat Loss for Finless Porpoise</i>	IWMF site, work site, marine traffic route	Design team, contractor, IWMF operator	✓	✓	✓	✓	EIAO-TM, Supporting Document for Application for Variation of the Environmental	Implemented for avoidance of construction works that may produce underwater acoustic disturbance, Vessel Travel Route implementation, training of staff; N/A for others

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines	Implementation Status and Remarks
				Des	C	O	Dec		
	- Substantial revision has been made on the layout plan and form of the breakwater, in order to minimise the potential loss of important habitat for Finless Porpoise. The revision has greatly reduced the size of the embayment area, as well as the Project footprint. As a result, the size of habitat loss for Finless Porpoise has reduced from the original ~50 ha, down to ~31 ha. <i>Avoidance of peak season for finless porpoise occurrence</i> - To minimise potential acoustic disturbance from construction activities on Finless Porpoise, construction works that may produce underwater acoustic disturbance should be scheduled outside the months with peak Finless Porpoise occurrence (December to May), including: - sheet piling works for construction of cofferdam surrounding the reclamation area (Phase 1); - sheet piling works for construction of the shorter section of breakwater (Phase 1);							Permit (EP-429/2012)	

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines	Implementation Status and Remarks
				Des	C	O	Dec		
	- sheet piling works for construction of the remaining section of breakwater (Phase 3) and - bored piling works for berth area (Phase 3) Such works should be restricted within June to November. This approach would not only avoid the peak season for Finless Porpoise occurrence, the magnitude of impacts arise from acoustic disturbance would also be minimised. • Since the DCM ground treatment and the installation of precast seawalls and breakwaters should generate no underwater acoustic disturbance to Finless Porpoise, no specific mitigation measures are required. <i>Opt for quieter construction methods and plants</i> • Considering the sensitivity of marine mammals to underwater acoustic disturbance, instead of the previously proposed conventional breakwater and reclamation peripheral structure, which requires noisy piling works, the current circular cells structure for								

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines	Implementation Status and Remarks
				Des	C	O	Dec		
	breakwater and reclamation peripheral structure is proposed. A quieter sheet piling method using vibratory hammer or hydraulic impact hammer, should be adopted for the installation of circular cells for cellular cofferdam and northern breakwater during Phase 1, and southern breakwater Phase 3; - Non-percussive bore piling method would be adopted for the installation of tubular piles for the berth construction during Phase 3. <i>Monitored exclusion zones</i> - During the installation/re-installation/relocation process of floating type silt curtains, in order to avoid the accidental entrance and entrapment of marine mammals within the silt curtains, a monitored exclusion zone of 250 m radius from silt curtain should be implemented. The exclusion zone should be closely monitored by an experienced marine mammal observer at least 30 minutes before the start of installation/re-installation/relocation process. If a marine mammal is noted within the exclusion zone, all marine works should stop immediately and remain idle for 30 minutes, or until the								

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	exclusion zone is free from marine mammals. - The experienced marine mammal observer should be well trained to detect marine mammals. Binoculars should be used to search the exclusion zone from an elevated platform with unobstructed visibility. The observer should also be independent from the project proponent and has the power to call-off construction activities. - In addition, as marine mammals cannot be effectively monitored within the proposed monitored exclusion zone at night, or during adverse weather conditions (i.e. Beaufort 5 or above, visibility of 300 meters or below), marine works should be avoided under weather conditions with low visibility. <i>Marine mammal watching plan</i> - Upon the completion of the installation/re-installation/relocation of floating type silt curtain, all marine works would be conducted within a fully enclosed environment within the silt curtain, hence exclusion zone monitoring would no longer								

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines	Implementation Status and Remarks
				Des	C	O	Dec		
	be required. Subsequently, a marine mammal watching plan should be implemented. The plan should include regular inspection of silt curtains, and visual inspection of the waters surrounded by the curtains. Special attention should be paid to Phase 2 (reclamation) where the floating type still curtain would be opened occasionally for vessel access, leaving a temporary 50 m opening. An action plan should be devised to cope with any unpredicted incidents such as the case when marine mammals are found within the waters surrounded by the silt curtains. <i>Small openings at silt curtains</i> - The openings for vessel access at the silt curtains should be as small as possible to minimise the risk of accidental entrance. <i>Adoption of regular travel route</i> - During construction and operation, captains of all vessels should adopt regular travel route, in order to minimize the chance of vessel collision with								

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines	Implementation Status and Remarks
				Des	C	O	Dec		
	marine mammals, which may otherwise result in damage to health or mortality. The regular travel route should avoid areas with high sighting density of Finless Porpoise as much as possible. <i>Vessel speed limit</i> - The frequent vessel traffic in the vicinity of works area may increase the chance of mammal mammals being killed or seriously injured by vessel collision. A speed limit of ten knots should be strictly enforced within areas with high density of Finless Porpoise. - Passive acoustic monitoring and land-based theodolite monitoring surveys should be adopted to verify the predicted impacts and effectiveness of the proposed mitigation measures. <i>Training of Staff</i> - Staff, including captains of vessels, should be aware of the guidelines for safe vessel operations in the presence of cetaceans during construction and operation phases. Adequate trainings should be provided								

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines	Implementation Status and Remarks
				Des	C	O	Dec		
7b.8.3.3 1 - 7b.8.3.3 4	<u>Measures to minimise impact on corals</u> <i>Coral translocation</i> - Coral communities within and in proximity to the proposed dredging sites would be disturbed by the Project due to the dredging operations. In order to minimise direct loss of coral communities, translocation of corals that are attached to movable rocks with diameter less than 50 cm are recommended. In order to avoid disturbance to corals during the spawning period, the spawning season of corals (June to August) should be avoided; and that translocation should be carried out during the winter season (November- March). - The REA survey results suggest that the 198 directly affected coral colonies were attached to movable rocks (less than 50 cm in diameter). It is technically feasible to translocate them to avoid direct loss. - Prior to coral translocation, a more detailed baseline survey, including a coral mapping survey, is recommended to further confirm the	IWMF site	Design team, contractor, IWMF operator	✓	✓	✓	✓	EIAO-TM	Implemented, tagged coral found missing after hitting by typhoons Re-tagging of 10 coral colonies at indirect impact site and control site were conducted in November and December 2018 respectively.

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines	Implementation Status and Remarks
				Des	C	O	Dec		
	exact number and location of coral colonies within the potentially affected area. A more detailed coral translocation plan, including selection of suitable recipient site, plan for coral translocation, and event / action plan for coral monitoring should be submitted upon approval of this Project, prior to commencement of construction works. Advice from relevant governmental departments (i.e. AFCD) and professionals would be sought after, in order to identify a desirable location for the relocation of coral communities. Post-translocation monitoring on the translocated corals should also be considered. <i>Coral monitoring programme</i> - A coral monitoring programme is recommended to assess any adverse and unacceptable impacts to the coral communities at the coasts of Shek Kwu Chau during construction of the Project. <i>Phasing of Works</i> - To minimize environmental impacts, the proposed phasing of construction works has been carefully designed to								

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines	Implementation Status and Remarks
				Des	C	O	Dec		
	reduce the amount of concurrent works, hence minimize SS elevation and the associated impacts on corals.								
7b.8.3.3 5 - 7b.8.3.4 1	<u>Specific measures to minimize disturbance on breeding White-bellied Sea Eagle</u> <i>Avoidance of noisy works during the breeding season of White-bellied Sea Eagle</i> - To minimize potential noise disturbance from construction activities on WBSE, noisy construction works should be scheduled outside their breeding season (December to May) to minimise potential degradation in breeding ground quality and breeding activities, including: - sheet piling works for construction of cofferdam surrounding the reclamation area (Phase 1); - sheet piling works for construction of the shorter section of breakwater (Phase 1); - sheet piling works for construction of the remaining section of breakwater (Phase 3); and - bored piling works for berth area (Phase 3).	IWMF site, marine traffic route	Design Team, Contractor, IWMF operator	✓	✓	✓	✓	EIAO-TM	Implemented

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines	Implementation Status and Remarks
				Des	C	O	Dec		
	<i>Opt for quieter construction methods and plants</i> - To minimise potential construction noise disturbance on WBSE, quieter construction methods and plants should be adopted. The recommended noise mitigation measures in the Noise chapter (Section 4b.8 of the EIA Report) should be implemented to minimise potential noise disturbance to acceptable levels. <i>Restriction on vessel access near the nest of White-bellied Sea Eagle</i> - During construction and operation, in order to minimize disturbance on the existing WBSE nest, a pre-defined practical route to restrict vessel access near the nest should be adopted to keep vessels and boats as far away from the nest as possible. <i>White-bellied Sea Eagle monitoring programme</i> - A WBSE monitoring programme is recommended to assess any adverse and unacceptable impacts to the breeding activities of WBSE during construction and operation of the								

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	Project. Monitoring surveys for WBSE would include pre-construction phase (twice per month for duration of three months during their breeding season -between December and May, immediately before the commencement of works), construction phase, and operation phase (two years after the completion of construction works). - Surveys should be conducted twice per month during their breeding season (from December to May); and once per month outside breeding season (June to November). More details on monitoring for WBSE are presented in the EM&A Manual. <i>Education of staff</i> - Staff, including captains of all vessels during construction and operation phases, should be aware of the ecological importance of WBSE. Awareness should be raised among staff to minimise any intentional or unintentional disturbance to the nest. <i>Minimisation of Glare Disturbance</i>								

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				Des	C	O	Dec		
	To minimise glare disturbance on WBSE, which may cause disorientation of birds by interfering with their magnetic compass, and disruption in behavioural patterns such as reproduction, fat storage and foraging pattern, any un-necessary outdoor lighting should be avoided, and in-ward and down-ward pointing of lights should be adopted.								
-	<u>Construction of Seawall/Breakwaters</u> - To widen the open channel between the Artificial Island and Shek Kwu Chau. - To design the precast concrete seawall with environmental friendly features.	IWMF site	Design team, contractor, IWMF operator	✓	✓			Supporting Document for Application for Variation of Environmental Permit (EP-429/2012)	N/A
7b.8.3.42	<u>Opt for Quieter Construction Methods and Plants</u> Quieter construction methods and plants should be used to minimise disturbance to the nearby terrestrial habitat and the associated wildlife.	Work site	Design team, contractor, IWMF operator	✓	✓	✓	✓	EIAO-TM	Implemented
7b.8.3.43	<u>Measures to minimize impacts from artificial lighting</u> Unnecessary lighting should be avoided, and shielding of lights should be provided to minimize disturbance from light pollution on fauna groups.	IWMF site	Design team, contractor, IWMF operator	✓	✓	✓		EIAO-TM	Implemented

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines	Implementation Status and Remarks
				Des	C	O	Dec		
7b.8.3.4 4 - 7b.8.3.4 5	<u>Measures to minimize accidental spillage</u> - Regular maintenance of vessels, vehicles and equipment that may cause leakage and spillage should only be undertaken within pre-designated areas, which are appropriately equipped to control the associated discharges. - Oils, fuels and chemicals should be contained in suitable containers, and only be used and stored in designated areas which have pollution prevention facilities. All fuel tanks and storage areas should be sited on sealed areas in order to prevent spillage of fuels and solvents to the nearby watercourses. All waste oils and fuels should be collected in designated tanks prior to disposal.	Work site	Contractor, IWMF operator		✓	✓	✓	EIAO-TM	Deficiency of Mitigation Measures but rectified by the Contractor.
7b.8.3.46	<u>Measures to minimise sewage effluent</u> Temporary sanitary facilities, such as portable chemical toilets, should be employed on-site where necessary to handle sewage from the workforce.	Work site	Contractor		✓			EIAO-TM	N/A
7b.8.3.47	<u>Measures to minimise drainage and construction runoff</u> Potential ecological impacts resulted from potential degradation of water quality due to unmitigated surface	Work site	Contractor		✓		✓	EIAO-TM	N/A

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines	Implementation Status and Remarks
				Des	C	O	Dec		
	runoff could be minimised via the detailed mitigation measures in Section 5b.8 of the EIA Report. The following presents some of the mitigation measures: - On-site drainage system with implemented sedimentation control facilities. - Channels, earth bunds or sand bag barriers should be provided on site to direct storm water to silt removal facilities. - Provision of embankment at boundaries of earthworks for flood protection. - Water pumped out from foundation piles must be discharged into silt removal facilities. - During rainstorms, exposed slope/soil surfaces should be covered by tarpaulin or other means, as far as practicable. - Exposed soil surface should be minimized to reduce siltation and runoff. - Earthwork final surfaces should be well compacted. Subsequent permanent surface protection should be immediately performed. - Open stockpiles of construction materials, and construction wastes on-								

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	site should be covered with tarpaulin or similar fabric during rainstorms.								
7b.8.3.48	<u>Measures to minimise impacts from general construction activities</u> To avoid the entering of construction solid waste into the nearby habitats, construction solid waste should be collected, handled and disposed of properly to avoid entering to the nearby habitats. It is recommended to clean the construction sites on a regular basis.	Work site	Contractor		✓			EIAO-TM	Implemented
7b.8.3.49	<u>Pest Control</u> Good waste management practices should be adopted at the IWMF in order to minimise the risk of introduction of pest to the island: - Transportation of wastes in enclosed containers - Waste storage area should be well maintained and cleaned - Waste should only be disposed of at designated areas - Timely removal of the newly arrived waste - Removal of items that are capable of retaining water - Rapid clean up of any waste spillages	IWMF site	IWMF operator			✓			N/A

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines	Implementation Status and Remarks
				Des	C	O	Dec		
	- Maintenance of a tidy and clean site environment - Regular application of pest control - Education of staff the importance of site cleanliness								
7b.8.3.50	<u>Control of Marine Habitat Quality during Operation Phase</u> Depending on the seabed condition of the approach channel for marine vessels during operation phase of the IWMF, maintenance dredging may be required to ensure safe access. In order to avoid degradation in water quality due to elevation in SS and dispersion of sediment plume due to dredging works, it is recommended that any future maintenance dredging works should not be carried out within 100 m from the shore, similar to that of the dredging for anti-scouring protection layer during construction phase. All maintenance dredging works should be carried out with the implementation of silt curtain to control the dispersion of SS. The production rate should comply with the permit dredging rate and number of grab per hour.	IWMF site	IWMF operator			✓		EIAO-TM; WPCON/A	
7b.8.4.1 –	<u>Compensation of loss of important habitat of Finless Porpoise</u>	Waters between Shek	Project Proponent	✓		✓		EIAO-TM	N/A

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines	Implementation Status and Remarks
				Des	C	O	Dec		
7b.8.4.8	<i>Designation of Marine Park</i> - The Project Proponent has made a firm commitment to seek to designate a marine park of approximately 700 ha in the waters between Soko Islands and Shek Kwu Chau, in accordance with the statutory process stipulated in the Marine Parks Ordinance, as a compensation measure for the habitat loss arising from the construction of the IWMF at the artificial island near SKC. - The Project Proponent shall seek to complete the designation by 2018 to tie in with the operation of the IWMF at the artificial island near SKC. - A further study should be carried out to review relevant previous studies and collate available information on the ecological characters of the proposed area for marine park designation; and review available survey data for Finless Porpoise, water quality, fisheries, marine traffic and planned development projects in the vicinity. Based on the findings, ecological profiles of the proposed area for marine park designation should be established, and the extent and	Kwu Chau and Soko Islands							

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines	Implementation Status and Remarks
				Des	C	O	Dec		
	location of the proposed marine park be determined. The adequacy of enhancement measures should also be reviewed. - In addition, a management plan for the proposed marine park should be proposed, covering information on the responsible departments for operation and management (O&M) of the marine park, as well as the O&M duties of each of the departments involved. Consultation with relevant government departments and stakeholders should be conducted under the study. The study should be submitted to Director of Environmental Protection (DEP) for approval before the commencement of construction works. - The Project Proponent should provide assistance to AFCD during the process of the marine park designation. .								
7b.8.5.1 – 7b.8.5.4	<u>Additional Enhancement or Precautionary Measures</u> <i>Deployment of Artificial Reefs</i> Deployment of artificial reefs (ARs) is an enhancement measure for the marine habitats. ARs are proposed to be deployed within the proposed	Within the proposed marine park under this study	Project Proponent	✓		✓		EIAO-TM	N/A

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines	Implementation Status and Remarks
				Des	C	O	Dec		
	marine park under this Project. The exact location, dimension and type of ARs to be deployed are to be further investigated along with the further study of the proposed marine park under this Project. The proposed ARs would be deployed at the same time as the complete designation of marine park. <i>Release of Fish Fry at Artificial Reefs and Marine Park</i> Release of fish fry at the proposed ARs, as well as the proposed marine park under this study, should enhance the fish resources in the nearby waters, and subsequently food sources for Finless Porpoise. The proposed ARs with various micro-habitats would have the potential to provide shelter and nursery ground for the released fish fry. The frequency and quantity of fry to be released should be agreed by AFCD.								

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Table B.6 Implementation Schedule for Fisheries Measures for the IWMF at the artificial island near SKC

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines	Implementation Status and Remarks
				Des	C	O	Dec		
8b.8.1.2	<u>Measure to minimize loss of and disturbance on fisheries resources</u> Alteration to the phasing of works, construction method, and layout plan of the IWMF at the artificial island near SKC has been made. The total fishing ground to be permanently lost due to the project has been significantly reduced from ~50 ha to ~31 ha. By adopting the current circular cells instead of the conventional seawall construction method, SS elevation would be greatly reduced, minimizing adverse impact on the health of fisheries resources.	IWMF site	Design team, contractor	✓	✓		✓	EIAO-TM	N/A
8b.8.1.3	<u>Measure to minimize impingement and entrainment</u> Provision of a screen at the water intake point for desalination plant would be essential to minimize the risk of impingement and entrainment of fisheries resources (including fish, larvae and egg) through the intake point.	IWMF site	Design team, contractor, IWMF operator	✓	✓	✓		EIAO-TM	N/A

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines	Implementation Status and Remarks
				Des	C	O	Dec		
8b.8.1.4-8b.8.1.6	<u>Measures to control water quality</u> - No wastewater effluent, anti-fouling agent, heavy metals and other contaminants would be released during operation phase of the Project. - Mitigation measures recommended in the water quality impact assessment during construction and operation would serve to protect fisheries resources from indirect impacts resulted from the Project	Work site, IWMF site	Design team, contractor, IWMF operator	✓	✓	✓	✓	EIAO-TM	Implemented
8b.8.1.7 – 8b.8.1.8	<u>Additional Enhancement / Precautionary Measures</u> - Artificial Reefs (ARs) are proposed to be deployed within the proposed marine park under this Project as an enhancement measure for the marine habitats. This enhancement feature would bring positive impacts to the previously identified important spawning and nursery ground for fisheries resources. <i>Release of Fish Fry at Artificial Reefs</i> - Release of fish fry has been proposed under this Project. The proposed deployment of ARs within the proposed marine park would provide shelter and nursery ground for the released fish fry. The frequency and quantity of fry to be released should be agreed by AFCD.	Within the proposed marine park in the waters between Soko Islands and Shek Kwu Chau	Project Proponent	✓		✓		EIAO-TM	N/A

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Table B.7 Implementation Schedule for Landscape and Visual Measures for the IWMF at the artificial island near SKC

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines	Implementation Status and Remarks
				Des	C	O	Dec		
S10b.10 MLVC- 01	Grass-hydroseeded bare soil surface and stock pile area	Work site / During construction phase	Contractor		✓				N/A
S10b.10 MLVC-02	<u>Landscape Design</u> 1) Early planting using fast grow trees and tall shrubs at strategic locations within site as buffer to block view corridors to the site from the VSRs, and to locally screen haul roads, excavation works and site preparation works. 2) Use of tree species of dense tree crown to serve as visual barrier. 3) Hard and soft landscape treatment (e.g. trees and shrubs) of open areas within development to provide a background for the outdoor containers from open view, shade and shelter, and a green appearance from surrounding viewpoints. 4) Planting strip along the periphery of the project site. 5) Selected tree species suitable for the coastal condition.	Work site / During design & construction phases	Contractor	✓	✓				N/A

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines	Implementation Status and Remarks
				Des	C	O	Dec		
S10b.10 MLVC-03	<u>Adoption of Natural Features of the Existing Shoreline</u> 1) Use of boulders in different sizes and with the similar textures of the existing rocky shores for the construction of breakwater and artificial shoreline in order to blend into the existing natural shoreline. 2) Use of cellular cofferdam together with the natural boulders to form a curvature shoreline for the reclamation area to echo with the natural shoreline of SKC.	Work site / During construction phase	Contractor		✓				N/A
S10b.10 MLVC-04	<u>Greening Design (Rooftop & Vertical Greening)</u> 1) Implementation of rooftop and vertical greening (vertical building envelope) along the periphery of each building block to increase the amenity value of the work, moderate temperature extremes and enhance building energy performance. The greening appearance of the building shall enhance its visual harmony with the natural surroundings as well as reduce the apparent visual mass of the structure. 2) Sufficient space between concrete enclosure and stack to minimize heat transfer. 3) Introduction of landscape decks at the stack to further enhance the overall natural and green concept unique for this site.	Work site / During design & construction phases	Contractor	✓	✓				N/A

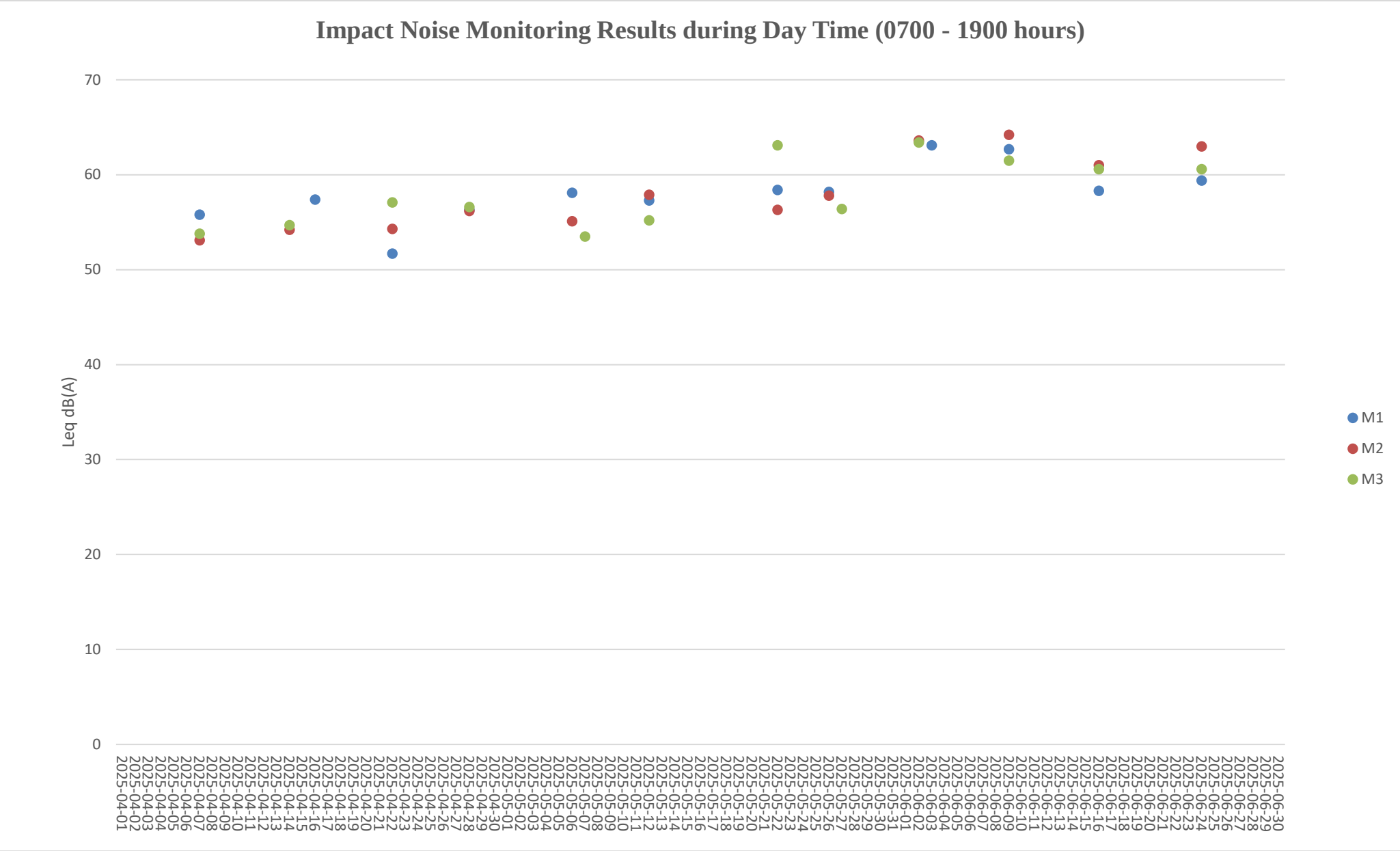
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines	Implementation Status and Remarks
				Des	C	O	Dec		
S10b.10 MVC-01	<u>Visual Mitigation and Aesthetic Design</u> 1) Use of natural materials with recessive color to minimize the bulkiness of the building. 2) Adoption of innovative aesthetic design to the chimney to minimize or visually mitigate the massing of the chimney so as to reduce its visual impact to the surroundings. 3) Color of the chimney in a gradual changing manner to match with the color of the sky. 4) Provision of observation deck for public enjoyment at the top of the chimney to diminish the feeling of chimney. 5) Provision of sky gardens between the two stacks to allow additional greening for enhancing the aesthetic quality. Maintenance access (elevator and staircase) from the ground floor to the sky gardens will be provided to allow maintenance of the sky gardens. 6) Integration of the visitor's walkway with different material façade design of incinerator plant to enhance the aesthetic quality.	Structures in IWMF / During design & construction phases	Contractor	✓	✓				N/A
S10b.10 MVC-02	Control of the security floodlight for construction areas at night to avoid excessive glare to the surrounding receiver.	Work site / During construction phase	Contractor		✓				Implemented

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines	Implementation Status and Remarks
				Des	C	O	Dec		
S10b.10 MVC-03	Optimization of the construction sequence and construction programme to minimize the duration of impact.	Work site / During design & construction phases	Contractor	✓	✓				Implemented
S10b.10 MVC-04	Storage of the backfilling materials for site formation & construction materials / wastes on site at a maximum height of 2m, covered with an impermeable material of visually unobtrusive material (in earth tone).	Work site / During construction phase	Contractor		✓				N/A
S10b.10 MVC-05	Reduction of the number of construction traffic at the site to practical minimum.	Work site / During construction phase	Contractor		✓				Implemented
S10b.10 MLVO-01	<u>Planting Maintenance</u> Provision of proper planting maintenance and replacement of defective plant species on the new planting areas to enhance aesthetic and landscape quality.	Project site / During Operation phase	Contractor			✓			N/A
S10b.10 MVO-01	<u>Environmental Education Centre</u> Development of an Environmental Education Center, in which regular exhibitions and lectures to promote environmental awareness and waste reduction concept would be provided, as a part of the IWMF for the general public to alleviate negative public perceptions of the development.	Project site / During Operation phase	Contractor			✓			N/A
S10b.10 MVO-02	<u>Control of Light</u> Control the numbers of lights and their intensity to a level that is good enough to meet the safety requirements at night but not excessive.	Project site / During Operation phase	Contractor			✓			N/A

EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Implementation Stages*				Relevant Legislation and Guidelines	Implementation Status and Remarks
				Des	C	O	Dec		
S10b.10 MVO-03	<u>Control of Operation Time</u> Minimization of the frequency of waste transportation to practical minimum (e.g. limit the reception of MSW from 8 am to 8 pm)	Project site / During Operation phase	Contractor			✓			N/A

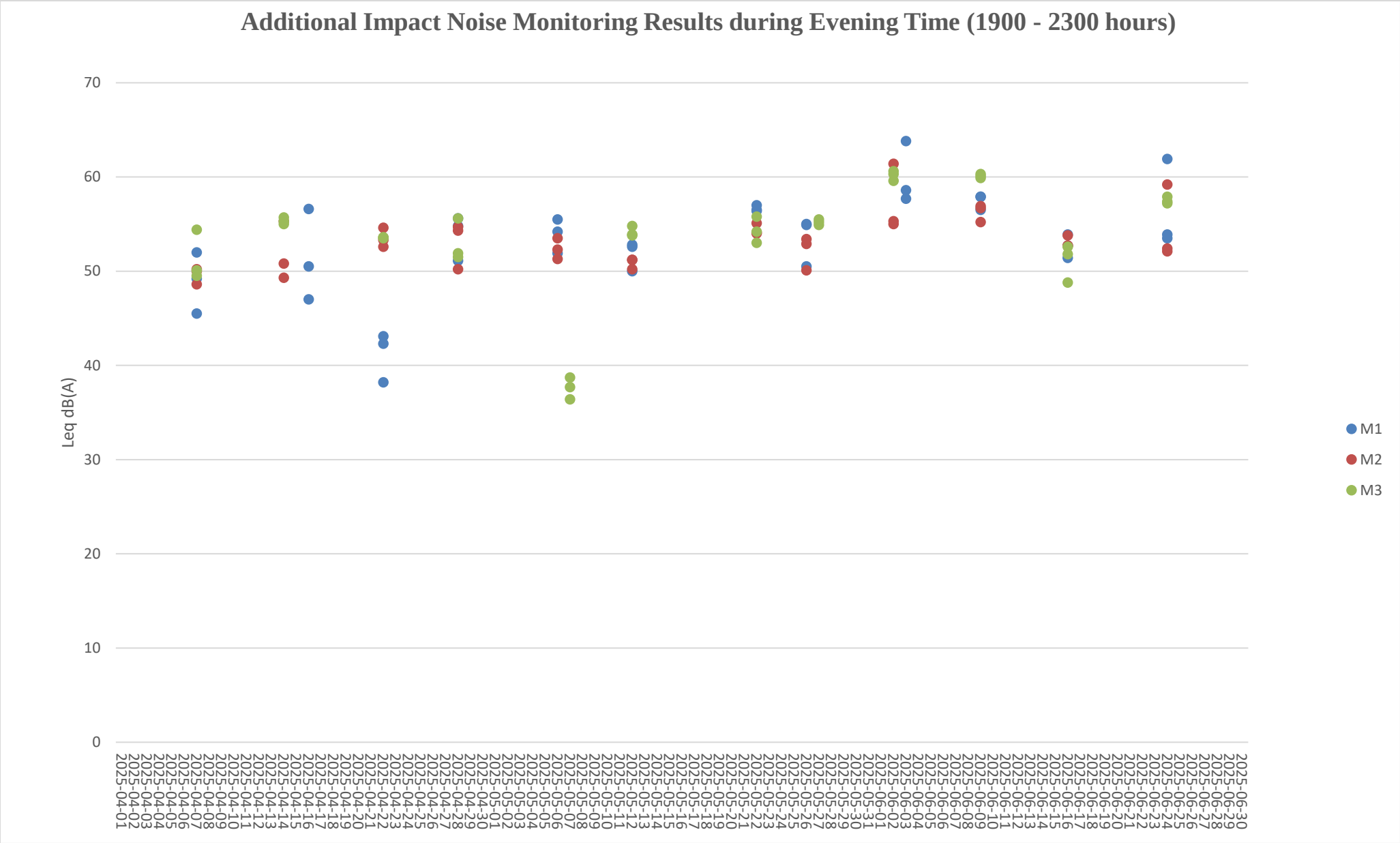
* Des - Design, C - Construction, O – Operation, and Dec - Decommissioning

Appendix C Noise Monitoring Data Trending



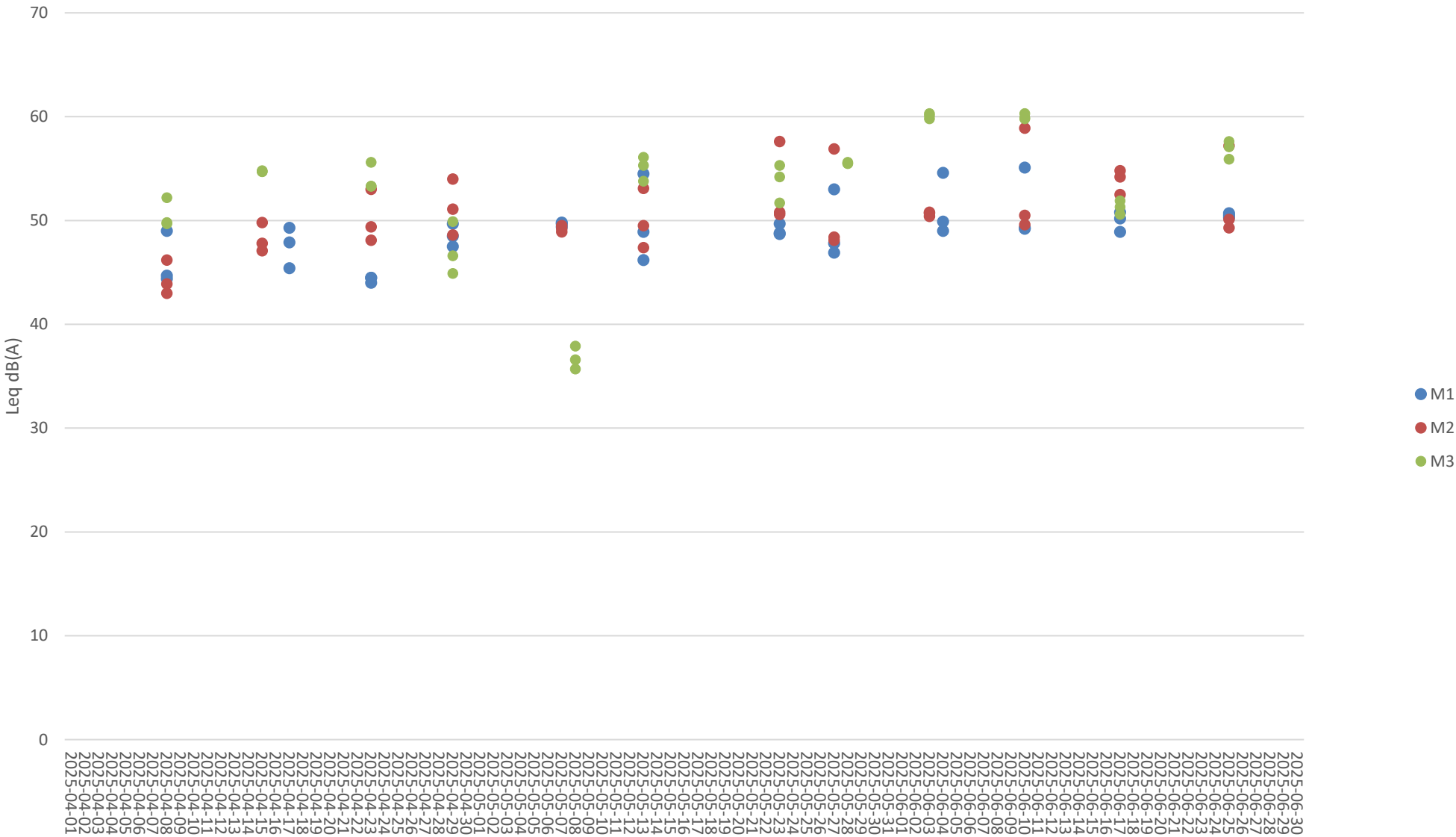
- Remark:
- 1. Construction works carried out during reporting month refer to **Table 1.2**.
 - 2. Weather condition recorded and noise source other than construction activities from the Project observed during the monitoring events refer to noise monitoring data summary in **Appendix D**.

Additional Impact Noise Monitoring Results during Evening Time (1900 - 2300 hours)



- Remark:
1. Construction works carried out during reporting month refer to **Table 1.2**.
 2. Weather condition recorded and noise source other than construction activities from the Project observed during the monitoring events refer to noise monitoring data summary in **Appendix D**.

Additional Impact Noise Monitoring Results during Night Time (2300 - 0700 hours)



Remark:

- 1. Construction works carried out during reporting month refer to **Table 1.2**.
- 2. Weather condition recorded and noise source other than construction activities from the Project observed during the monitoring events refer to noise monitoring data summary in **Appendix D**.

Summary of the Construction Activities Undertaken during the Reporting Period

Location of works	Construction activities undertaken	Remarks on progress
Reclamation area	• Superstructure construction	• On-going
Seawall portion	• Caisson extension works, from +3mPD to +6mPD, at Seawall A and B • Construction of wave wall along the vertical seawall above +3mPD	• On-going • On-going

Location: Shek Kwu Chau Treatment & Rehabilitation Centre Hostel 1 (M1 / N_S1)

Monitoring date: 07, 16, 22 and 28 April 2025 (Daytime)

07&08, 16&17, 22&23 and 28&29 April 2025 (Evening & Nighttime)

Parameter: $L_{eq\ 30min}$ (Daytime), $L_{eq\ 5min}$ (Evening & Night time)

Noise source other than construction activities from the Project: Nil

Noise Monitoring Data:

Date	Start time		End time	Weather	$L_{eq\ 30min}$ dB(A) / $L_{eq\ 5min}$ dB(A)	Sound Level Meter Used	Calibrator Used
07 Apr 2025	13:56	-	14:26	Sunny	55.8	SVAN 971 (Serial No. 103482)	Rion NC-75 (No.34524163)
07 Apr 2025	19:11	-	19:16	Fine	52.0	SVAN 971 (Serial No. 103482)	Rion NC-75 (No.34524163)
	20:11	-	20:16		49.2		
	21:11	-	21:16		45.5		
08 Apr 2025	1:21	-	1:26	Fine	44.7	SVAN 971 (Serial No. 103482)	Rion NC-75 (No.34524163)
	3:16	-	3:21		44.4		
	5:11	-	5:16		49.0		
16 Apr 2025	13:20	-	13:50	Sunny	57.4	SVAN 971 (Serial No. 103482)	Rion NC-75 (No.34524163)
16 Apr 2025	19:15	-	19:20	Fine	56.6	SVAN 971 (Serial No. 103482)	Rion NC-75 (No.34524163)
	20:20	-	20:25		50.5		
	21:20	-	21:25		47.0		
17 Apr 2025	1:30	-	1:35	Fine	45.4	SVAN 971 (Serial No. 103482)	Rion NC-75 (No.34524163)
	3:15	-	3:20		47.9		
	5:10	-	5:15		49.3		
22 Apr 2025	13:35	-	14:05	Fine	51.7	SVAN 971 (Serial No. 103482)	Rion NC-75 (No.34524163)
22 Apr 2025	19:05	-	19:10	Fine	38.2	SVAN 971 (Serial No. 103482)	Rion NC-75 (No.34524163)
	20:15	-	20:20		43.1		
	21:45	-	21:50		42.3		
23 Apr 2025	1:25	-	1:30	Fine	44.5	SVAN 971 (Serial No. 103482)	Rion NC-75 (No.34524163)
	3:20	-	3:25		44.0		
	5:25	-	5:30		44.5		
28 Apr 2025	14:04	-	14:34	Fine	56.3	SVAN 971 (Serial No. 103482)	Rion NC-75 (No.34524163)
28 Apr 2025	19:14	-	19:19	Fine	55.6	SVAN 971 (Serial No. 103482)	Rion NC-75 (No.34524163)
	20:09	-	20:14		54.8		
	21:09	-	21:14		51.1		
29 Apr 2025	1:29	-	1:34	Fine	48.5	SVAN 971 (Serial No. 103482)	Rion NC-75 (No.34524163)
	3:19	-	3:24		47.5		
	5:24	-	5:29		49.7		

Location: Shek Kwu Chau Treatment & Rehabilitation Centre Hostel 2 (M2 / N_S2)

Monitoring date: 07, 14, 22 and 28 April 2025 (Daytime)

07&08, 14&15, 22&23 and 28&29 April 2025 (Evening & Nighttime)

Parameter: $L_{eq\ 30min}$ (Daytime), $L_{eq\ 5min}$ (Evening & Night time)

Noise source other than construction activities from the Project: Nil

Noise Monitoring Data:

Date	Start time		End time	Weather	$L_{eq\ 30min}$ dB(A) / $L_{eq\ 5min}$ dB(A)	Sound Level Meter Used	Calibrator Used
07 Apr 2025	13:34	-	14:04	Sunny	53.1	SVAN 971 (Serial No. C132261)	Rion NC-75 (No.34524163)
07 Apr 2025	19:14	-	19:19	Fine	50.0	SVAN 971 (Serial No. C132261)	Rion NC-75 (No.34524163)
	20:14	-	20:19		50.2		
	21:14	-	21:19		48.6		
08 Apr 2025	1:19	-	1:24	Fine	46.2	SVAN 971 (Serial No. C132261)	Rion NC-75 (No.34524163)
	3:14	-	3:19		43.9		
	5:14	-	5:19		43.0		
14 Apr 2025	13:54	-	14:24	Sunny	54.2	SVAN 971 (Serial No. C132261)	Rion NC-75 (No.34524163)
14 Apr 2025	19:14	-	19:19	Fine	55.3	SVAN 971 (Serial No. C132261)	Rion NC-75 (No.34524163)
	20:24	-	20:29		50.8		
	21:34	-	21:39		49.3		
15 Apr 2025	1:14	-	1:19	Fine	47.8	SVAN 971 (Serial No. C132261)	Rion NC-75 (No.34524163)
	3:29	-	3:34		47.1		
	5:09	-	5:14		49.8		
22 Apr 2025	13:08	-	13:38	Fine	54.3	SVAN 971 (Serial No. C132261)	Rion NC-75 (No.34524163)
22 Apr 2025	19:13	-	19:18	Fine	54.6	SVAN 971 (Serial No. C132261)	Rion NC-75 (No.34524163)
	20:13	-	20:18		53.3		
	21:18	-	21:23		52.6		
23 Apr 2025	1:23	-	1:28	Fine	48.1	SVAN 971 (Serial No. C132261)	Rion NC-75 (No.34524163)
	3:18	-	3:23		49.4		
	5:28	-	5:33		53.0		
28 Apr 2025	13:51	-	14:21	Fine	56.2	SVAN 971 (Serial No. C132261)	Rion NC-75 (No.34524163)
28 Apr 2025	19:16	-	19:21	Fine	54.7	SVAN 971 (Serial No. C132261)	Rion NC-75 (No.34524163)
	20:06	-	20:11		54.3		
	21:11	-	21:16		50.2		
29 Apr 2025	1:31	-	1:36	Fine	48.6	SVAN 971 (Serial No. C132261)	Rion NC-75 (No.34524163)
	3:21	-	3:26		51.1		
	5:11	-	5:16		54.0		

Location: Shek Kwu Chau Treatment & Rehabilitation Centre Hostel 3 (M3 / N_S3)

Monitoring date: 07, 14, 22 and 28 April 2025 (Daytime)

07&08, 14&15, 22&23 and 28&29 April 2025 (Evening & Nighttime)

Parameter: $L_{eq\ 30min}$ (Daytime), $L_{eq\ 5min}$ (Evening & Night time)

Noise source other than construction activities from the Project: Operation of nearby Air Quality Monitoring Station

Noise Monitoring data:

Date	Start time		End time	Weather	$L_{eq\ 30min}$ dB(A) / $L_{eq\ 5min}$ dB(A)	Sound Level Meter Used	Calibrator Used
07 Apr 2025	13:42	-	14:12	Sunny	53.8	SVAN 971 (Serial No. C132269)	Rion NC-75 (No. 34524163)
07 Apr 2025	19:12	-	19:17	Fine	54.4	SVAN 971 (Serial No. C132269)	Rion NC-75 (No. 34524163)
	20:12	-	20:17		49.5		
	21:12	-	21:17		50.1		
08 Apr 2025	1:12	-	1:17	Fine	49.8	SVAN 971 (Serial No. C132269)	Rion NC-75 (No. 34524163)
	3:12	-	3:17		52.2		
	5:12	-	5:17		49.7		
14 Apr 2025	13:44	-	14:14	Sunny	54.7	SVAN 971 (Serial No. C132269)	Rion NC-75 (No. 34524163)
14 Apr 2025	19:19	-	19:24	Fine	55.0	SVAN 971 (Serial No. C132269)	Rion NC-75 (No. 34524163)
	20:04	-	20:09		55.7		
	21:34	-	21:39		55.3		
15 Apr 2025	1:24	-	1:29	Fine	54.7	SVAN 971 (Serial No. C132269)	Rion NC-75 (No. 34524163)
	3:29	-	3:34		54.8		
	5:14	-	5:19		54.7		
22 Apr 2025	13:31	-	14:01	Fine	57.1	SVAN 971 (Serial No. C132269)	Rion NC-75 (No. 34524163)
22 Apr 2025	19:11	-	19:16	Fine	53.6	SVAN 971 (Serial No. C132269)	Rion NC-75 (No. 34524163)
	20:11	-	20:16		53.6		
	21:16	-	21:21		53.5		
23 Apr 2025	1:26	-	1:31	Fine	53.3	SVAN 971 (Serial No. C132269)	Rion NC-75 (No. 34524163)
	3:16	-	3:21		55.6		
	5:21	-	5:26		53.3		
28 Apr 2025	13:39	-	14:09	Fine	56.6	SVAN 971 (Serial No. C132269)	Rion NC-75 (No. 34524163)
28 Apr 2025	19:09	-	19:14	Fine	51.5	SVAN 971 (Serial No. C132269)	Rion NC-75 (No. 34524163)
	20:09	-	20:14		55.6		
	21:19	-	21:24		51.9		
29 Apr 2025	1:14	-	1:19	Fine	49.9	SVAN 971 (Serial No. C132269)	Rion NC-75 (No. 34524163)
	3:14	-	3:19		46.6		
	5:19	-	5:24		44.9		

Location: Shek Kwu Chau Treatment & Rehabilitation Centre Hostel 1 (M1 / N_S1)

Monitoring date: 06, 12, 22 and 26 May 2025 (Daytime)

06&07, 12&13, 22&23 and 26&27 May 2025 (Evening & Nighttime)

Parameter: $L_{eq\ 30min}$ (Daytime), $L_{eq\ 5min}$ (Evening & Night time)

Noise source other than construction activities from the Project: Nil

Noise Monitoring Data:

Date	Start time		End time	Weather	$L_{eq\ 30min}$ dB(A) / $L_{eq\ 5min}$ dB(A)	Sound Level Meter Used	Calibrator Used
06 May 2025	14:10	-	14:40	Fine	58.1	SVAN 971 (Serial No. 103482)	Rion NC-75 (No.34524163)
06 May 2025	19:10	-	19:15	Fine	54.2	SVAN 971 (Serial No. 103482)	Rion NC-75 (No.34524163)
	20:10	-	20:15		55.5		
	21:05	-	21:10		51.9		
07 May 2025	1:05	-	1:10	Fine	49.8	SVAN 971 (Serial No. 103482)	Rion NC-75 (No.34524163)
	3:10	-	3:15		49.4		
	5:05	-	5:10		49.7		
12 May 2025	14:20	-	14:50	Fine	57.3	SVAN 971 (Serial No. 103482)	Rion NC-75 (No.34524163)
12 May 2025	19:05	-	19:10	Fine	52.6	SVAN 971 (Serial No. 103482)	Rion NC-75 (No.34524163)
	20:15	-	20:20		52.8		
	21:15	-	21:20		50.0		
13 May 2025	1:15	-	1:20	Fine	46.2	SVAN 971 (Serial No. 103482)	Rion NC-75 (No.34524163)
	3:30	-	3:35		48.9		
	5:20	-	5:25		54.5		
22 May 2025	14:14	-	14:44	Sunny	58.4	SVAN 971 (Serial No. 103482)	Rion NC-75 (No.34524163)
22 May 2025	19:14	-	19:19	Fine	57.0	SVAN 971 (Serial No. 103482)	Rion NC-75 (No.34524163)
	20:09	-	20:14		56.4		
	21:14	-	21:19		56.5		
23 May 2025	1:19	-	1:24	Fine	48.8	SVAN 971 (Serial No. 103482)	Rion NC-75 (No.34524163)
	3:14	-	3:19		48.7		
	5:14	-	5:19		49.7		
26 May 2025	14:21	-	14:51	Cloudy	58.2	SVAN 971 (Serial No. 103482)	Rion NC-75 (No.34524163)
26 May 2025	19:16	-	19:21	Fine	55.0	SVAN 971 (Serial No. 103482)	Rion NC-75 (No.34524163)
	20:16	-	20:21		54.9		
	21:26	-	21:31		50.5		
27 May 2025	1:41	-	1:46	Fine	46.9	SVAN 971 (Serial No. 103482)	Rion NC-75 (No.34524163)
	3:21	-	3:26		47.8		
	5:31	-	5:36		53.0		

Location: Shek Kwu Chau Treatment & Rehabilitation Centre Hostel 2 (M2 / N_S2)

Monitoring date: 06, 12, 22 and 26 May 2025 (Daytime)

06&07, 12&13, 22&23 and 26&27 May 2025 (Evening & Nighttime)

Parameter: $L_{eq\ 30min}$ (Daytime), $L_{eq\ 5min}$ (Evening & Night time)

Noise source other than construction activities from the Project: Nil

Noise Monitoring Data:

Date	Start time		End time	Weather	$L_{eq\ 30min}$ dB(A) / $L_{eq\ 5min}$ dB(A)	Sound Level Meter Used	Calibrator Used
06 May 2025	14:18	-	14:48	Fine	55.1	SVAN 971 (Serial No. C132261)	Rion NC-75 (No.34524163)
06 May 2025	19:13	-	19:18	Fine	53.5	SVAN 971 (Serial No. C132261)	Rion NC-75 (No.34524163)
	20:18	-	20:23		52.3		
	21:18	-	21:23		51.3		
07 May 2025	1:08	-	1:13	Fine	49.5	SVAN 971 (Serial No. C132261)	Rion NC-75 (No.34524163)
	3:18	-	3:23		48.9		
	5:03	-	5:08		49.2		
12 May 2025	14:30	-	15:00	Fine	57.9	SVAN 971 (Serial No. C132261)	Rion NC-75 (No.34524163)
12 May 2025	19:10	-	19:15	Fine	51.2	SVAN 971 (Serial No. C132261)	Rion NC-75 (No.34524163)
	20:15	-	20:20		51.2		
	21:15	-	21:20		50.2		
13 May 2025	1:20	-	1:25	Fine	47.4	SVAN 971 (Serial No. C132261)	Rion NC-75 (No.34524163)
	3:30	-	3:35		49.5		
	5:35	-	5:40		53.1		
22 May 2025	14:26	-	14:56	Sunny	56.3	SVAN 971 (Serial No. C132261)	Rion NC-75 (No.34524163)
22 May 2025	19:16	-	19:21	Fine	54.1	SVAN 971 (Serial No. C132261)	Rion NC-75 (No.34524163)
	20:06	-	20:11		54.0		
	21:11	-	21:16		55.1		
23 May 2025	1:11	-	1:16	Fine	50.6	SVAN 971 (Serial No. C132261)	Rion NC-75 (No.34524163)
	3:16	-	3:21		50.8		
	5:11	-	5:16		57.6		
26 May 2025	14:04	-	14:34	Cloudy	57.8	SVAN 971 (Serial No. C132261)	Rion NC-75 (No.34524163)
26 May 2025	19:14	-	19:19	Fine	52.9	SVAN 971 (Serial No. C132261)	Rion NC-75 (No.34524163)
	20:14	-	20:19		53.4		
	21:24	-	21:29		50.1		
27 May 2025	1:44	-	1:49	Fine	48.4	SVAN 971 (Serial No. C132261)	Rion NC-75 (No.34524163)
	3:24	-	3:29		48.1		
	5:34	-	5:39		56.9		

Location: Shek Kwu Chau Treatment & Rehabilitation Centre Hostel 3 (M3 / N_S3)

Monitoring date: 07, 12, 22 and 27 May 2025 (Daytime)

07&08, 12&13, 22&23 and 27&28 May 2025 (Evening & Nighttime)

Parameter: $L_{eq\ 30min}$ (Daytime), $L_{eq\ 5min}$ (Evening & Night time)

Noise source other than construction activities from the Project: Operation of nearby Air Quality Monitoring Station

Noise Monitoring data:

Date	Start time		End time	Weather	$L_{eq\ 30min}$ dB(A) / $L_{eq\ 5min}$ dB(A)	Sound Level Meter Used	Calibrator Used
07 May 2025	14:24	-	14:54	Fine	53.5	SVAN 971 (Serial No. C132269)	Rion NC-75 (No. 34524163)
07 May 2025	19:09	-	19:14	Fine	36.4	SVAN 971 (Serial No. C132269)	Rion NC-75 (No. 34524163)
	20:14	-	20:19		37.7		
	21:19	-	21:24		38.7		
08 May 2025	1:09	-	1:14	Fine	37.9	SVAN 971 (Serial No. C132269)	Rion NC-75 (No. 34524163)
	3:19	-	3:24		36.6		
	5:09	-	5:14		35.7		
12 May 2025	14:19	-	14:49	Fine	55.2	SVAN 971 (Serial No. C132269)	Rion NC-75 (No. 34524163)
12 May 2025	19:09	-	19:14	Fine	53.9	SVAN 971 (Serial No. C132269)	Rion NC-75 (No. 34524163)
	20:14	-	20:19		54.8		
	21:14	-	21:19		53.8		
13 May 2025	1:24	-	1:29	Fine	56.1	SVAN 971 (Serial No. C132269)	Rion NC-75 (No. 34524163)
	3:24	-	3:29		55.3		
	5:39	-	5:44		53.8		
22 May 2025	14:13	-	14:43	Sunny	63.1	SVAN 971 (Serial No. C132269)	Rion NC-75 (No. 34524163)
22 May 2025	19:18	-	19:23	Fine	55.8	SVAN 971 (Serial No. C132269)	Rion NC-75 (No. 34524163)
	20:08	-	20:13		53.0		
	21:13	-	21:18		54.2		
23 May 2025	1:13	-	1:18	Fine	51.7	SVAN 971 (Serial No. C132269)	Rion NC-75 (No. 34524163)
	3:13	-	3:18		54.2		
	5:13	-	5:18		55.3		
27 May 2025	14:16	-	14:46	Cloudy	56.4	SVAN 971 (Serial No. C132269)	Rion NC-75 (No. 34524163)
27 May 2025	19:26	-	19:31	Fine	55.5	SVAN 971 (Serial No. C132269)	Rion NC-75 (No. 34524163)
	20:16	-	20:21		54.9		
	21:26	-	21:31		55.2		
28 May 2025	1:46	-	1:51	Fine	55.5	SVAN 971 (Serial No. C132269)	Rion NC-75 (No. 34524163)
	3:16	-	3:21		55.5		
	5:26	-	5:31		55.6		

Location: Shek Kwu Chau Treatment & Rehabilitation Centre Hostel 1 (M1 / N_S1)

Monitoring date: 03, 09, 16 and 24 June 2025 (Daytime)

03&04, 09&10, 16&17 and 24&25 June 2025 (Evening & Nighttime)

Parameter: $L_{eq\ 30min}$ (Daytime), $L_{eq\ 5min}$ (Evening & Night time)

Noise source other than construction activities from the Project: Nil

Noise Monitoring Data:

Date	Start time		End time	Weather	$L_{eq\ 30min}$ dB(A) / $L_{eq\ 5min}$ dB(A)	Sound Level Meter Used	Calibrator Used
03 Jun 2025	15:02	-	15:32	Fine	63.1	SVAN 971 (Serial No. 103482)	Rion NC-75 (No.34524163)
03 Jun 2025	19:17	-	19:22	Fine	63.8	SVAN 971 (Serial No. 103482)	Rion NC-75 (No.34524163)
	20:22	-	20:27		58.6		
	21:22	-	21:27		57.7		
04 Jun 2025	1:32	-	1:37	Fine	49.9	SVAN 971 (Serial No. 103482)	Rion NC-75 (No.34524163)
	3:32	-	3:37		49.0		
	5:22	-	5:27		54.6		
09 Jun 2025	14:02	-	14:32	Sunny	62.7	SVAN 971 (Serial No. 96063)	Rion NC-75 (No.34524163)
09 Jun 2025	19:42	-	19:47	Fine	57.9	SVAN 971 (Serial No. 96063)	Rion NC-75 (No.34524163)
	20:47	-	20:52		57.9		
	21:42	-	21:47		56.5		
10 Jun 2025	1:42	-	1:47	Fine	49.3	SVAN 971 (Serial No. 96063)	Rion NC-75 (No.34524163)
	3:47	-	3:52		49.2		
	5:12	-	5:17		55.1		
16 Jun 2025	14:14	-	14:44	Sunny	58.3	SVAN 971 (Serial No. 96063)	Rion NC-75 (No.34524163)
16 Jun 2025	19:19	-	19:24	Fine	53.9	SVAN 971 (Serial No. 96063)	Rion NC-75 (No.34524163)
	20:14	-	20:19		52.7		
	21:14	-	21:19		51.4		
17 Jun 2025	1:19	-	1:24	Fine	48.9	SVAN 971 (Serial No. 96063)	Rion NC-75 (No.34524163)
	3:19	-	3:24		50.2		
	5:24	-	5:29		50.8		
24 Jun 2025	14:14	-	14:44	Sunny	59.4	SVAN 971 (Serial No. 96063)	Rion NC-75 (No.34524163)
24 Jun 2025	19:14	-	19:19	Fine	61.9	SVAN 971 (Serial No. 96063)	Rion NC-75 (No.34524163)
	20:19	-	20:24		53.5		
	21:19	-	21:24		53.9		
25 Jun 2025	1:14	-	1:19	Fine	50.5	SVAN 971 (Serial No. 96063)	Rion NC-75 (No.34524163)
	3:14	-	3:19		50.7		
	5:14	-	5:19		50.3		

Location: Shek Kwu Chau Treatment & Rehabilitation Centre Hostel 2 (M2 / N_S2)

Monitoring date: 02, 09, 16 and 24 June 2025 (Daytime)

02&03, 09&10, 16&17 and 24&25 June 2025 (Evening & Nighttime)

Parameter: $L_{eq\ 30min}$ (Daytime), $L_{eq\ 5min}$ (Evening & Night time)

Noise source other than construction activities from the Project: Nil

Noise Monitoring Data:

Date	Start time		End time	Weather	$L_{eq\ 30min}$ dB(A) / $L_{eq\ 5min}$ dB(A)	Sound Level Meter Used	Calibrator Used
02 Jun 2025	14:52	-	15:22	Fine	63.6	SVAN 971 (Serial No. C132261)	Rion NC-75 (No.34524163)
02 Jun 2025	19:12	-	19:17	Fine	61.4	SVAN 971 (Serial No. C132261)	Rion NC-75 (No.34524163)
	20:12	-	20:17		55.3		
	21:12	-	21:17		55.0		
03 Jun 2025	1:12	-	1:17	Fine	50.7	SVAN 971 (Serial No. C132261)	Rion NC-75 (No.34524163)
	3:12	-	3:17		50.4		
	5:07	-	5:12		50.8		
09 Jun 2025	14:19	-	14:49	Sunny	64.2	SVAN 971 (Serial No. C132261)	Rion NC-75 (No.34524163)
09 Jun 2025	19:44	-	19:49	Fine	56.7	SVAN 971 (Serial No. C132261)	Rion NC-75 (No.34524163)
	20:44	-	20:49		56.9		
	21:39	-	21:44		55.2		
10 Jun 2025	1:44	-	1:49	Fine	50.5	SVAN 971 (Serial No. C132261)	Rion NC-75 (No.34524163)
	3:44	-	3:49		49.6		
	5:14	-	5:19		58.9		
16 Jun 2025	14:25	-	14:55	Sunny	61.0	SVAN 971 (Serial No. C132261)	Rion NC-75 (No.34524163)
16 Jun 2025	19:25	-	19:30	Fine	53.8	SVAN 971 (Serial No. C132261)	Rion NC-75 (No.34524163)
	20:15	-	20:20		52.7		
	21:15	-	21:20		52.7		
17 Jun 2025	1:20	-	1:25	Fine	54.8	SVAN 971 (Serial No. C132261)	Rion NC-75 (No.34524163)
	3:15	-	3:20		54.2		
	5:20	-	5:25		52.5		
24 Jun 2025	14:25	-	14:55	Sunny	63.0	SVAN 971 (Serial No. C132261)	Rion NC-75 (No.34524163)
24 Jun 2025	19:30	-	19:35	Fine	59.2	SVAN 971 (Serial No. C132261)	Rion NC-75 (No.34524163)
	20:30	-	20:35		52.1		
	21:15	-	21:20		52.4		
25 Jun 2025	1:20	-	1:25	Fine	50.1	SVAN 971 (Serial No. C132261)	Rion NC-75 (No.34524163)
	3:15	-	3:20		49.3		
	5:25	-	5:30		57.2		

Location: Shek Kwu Chau Treatment & Rehabilitation Centre Hostel 3 (M3 / N_S3)

Monitoring date: 02, 09, 16 and 24 June 2025 (Daytime)

02&03, 09&10, 16&17 and 24&25 June 2025 (Evening & Nighttime)

Parameter: $L_{eq\ 30min}$ (Daytime), $L_{eq\ 5min}$ (Evening & Night time)

Noise source other than construction activities from the Project: Operation of nearby Air Quality Monitoring Station

Noise Monitoring data:

Date	Start time		End time	Weather	$L_{eq\ 30min}$ dB(A) / $L_{eq\ 5min}$ dB(A)	Sound Level Meter Used	Calibrator Used
02 Jun 2025	14:51	-	15:21	Fine	63.4	SVAN 971 (Serial No. C132269)	Rion NC-75 (No. 34524163)
02 Jun 2025	19:36	-	19:41	Fine	59.6	SVAN 971 (Serial No. C132269)	Rion NC-75 (No. 34524163)
	20:26	-	20:31		60.6		
	21:16	-	21:21		60.3		
03 Jun 2025	1:16	-	1:21	Fine	60.3	SVAN 971 (Serial No. C132269)	Rion NC-75 (No. 34524163)
	3:26	-	3:31		60.1		
	5:06	-	5:11		59.8		
09 Jun 2025	14:21	-	14:51	Sunny	61.5	SVAN 971 (Serial No. 103449)	Rion NC-75 (No. 34524163)
09 Jun 2025	19:46	-	19:51	Fine	59.9	SVAN 971 (Serial No. 103449)	Rion NC-75 (No. 34524163)
	20:46	-	20:51		60.1		
	21:46	-	21:51		60.3		
10 Jun 2025	1:46	-	1:51	Fine	60.3	SVAN 971 (Serial No. 103449)	Rion NC-75 (No. 34524163)
	3:36	-	3:41		59.9		
	5:21	-	5:26		59.8		
16 Jun 2025	14:07	-	14:37	Sunny	60.6	SVAN 971 (Serial No. 103449)	Rion NC-75 (No. 34524163)
16 Jun 2025	19:37	-	19:42	Fine	52.6	SVAN 971 (Serial No. 103449)	Rion NC-75 (No. 34524163)
	20:17	-	20:22		51.8		
	21:17	-	21:22		48.8		
17 Jun 2025	1:22	-	1:27	Fine	50.6	SVAN 971 (Serial No. 103449)	Rion NC-75 (No. 34524163)
	3:22	-	3:27		51.9		
	5:17	-	5:22		51.3		
24 Jun 2025	14:17	-	14:47	Sunny	60.6	SVAN 971 (Serial No. 103449)	Rion NC-75 (No. 34524163)
24 Jun 2025	19:42	-	19:47	Fine	57.4	SVAN 971 (Serial No. 103449)	Rion NC-75 (No. 34524163)
	20:22	-	20:27		57.9		
	21:27	-	21:32		57.2		
25 Jun 2025	1:27	-	1:32	Fine	57.6	SVAN 971 (Serial No. 103449)	Rion NC-75 (No. 34524163)
	3:17	-	3:22		57.1		
	5:17	-	5:22		55.9		

Appendix D Waste Flow Table



Monthly Summary Waste Flow Table for 2018 (year)

Project : Integrated Waste Management Facilities, Phase 1

Contract No.: EP/SP/66/12

Month	Actual Quantities of Inert C&D Materials Generated Monthly								Actual Quantities of C&D Wastes Generated Monthly					
	Total Quantity Generated	Hard Rock and Large Broken Concrete (see Note 1)	Reused in the Contract	Reused in other Projects	Disposed as Public Fill (see Note 4)	Imported Fill Sand (see Note 4)	Imported Fill Public fill (see Note 4)	Imported Fill Rock (see Note 4)	Metals (see Note 5)	Paper/ cardboard packaging (see Note 5)	Plastics (see Note 2, 5)	Chemical Waste		Others, e.g. general refuse (see Note 3)
	(in ,000m ³)	(in ,000m ³)	(in ,000m ³)	(in ,000m ³)	(in ,000m ³)	(in ,000m ³)			(in ,000 kg)	(in ,000kg)	(in ,000kg)	(in ,000kg)	(in ,000L)	(in ,000 m ³)
Jan	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Feb	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mar	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Apr	0	0	0	0	0	0	0	0	0	0	0	0	0	0
May	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sub-total	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jul	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aug	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0065
Sep	0	0	0	0	0	2.9619	0	0	0	0	0	0	0	0
Oct	0	0	0	0	0	3.0771	0	0	0	0	0	0	0	0.0130
Nov	0	0	0	0	0	6.7871	0	0	0	0	0	0	0	0
Dec	0	0	0	0	0	59.0709	0	0	0	0	0	0.2000	0.8700	0
Total	0	0	0	0	0	71.8970	0	0	0	0	0	0.2000	0.8700	0.0195

- Notes:
- (1) Broken concrete for recycling into aggregates.
 - (2) Plastics refer to plastic bottles/ containers, plastic sheets/ foam from packaging materials.
 - (3) Use the conversion factor : 1 full load of dumping truck being equivalent to 6.5m³ by volume.
 - (4) Use the conversion factor: sand density = 1.6T/m³, public fill density = 1.8T/m³ and rock density = 2T/m³
 - (5) Materials recycled.



Monthly Summary Waste Flow Table for 2019 (year)

Project : Integrated Waste Management Facilities, Phase 1

Contract No.: EP/SP/66/12

Month	Actual Quantities of Inert C&D Materials Generated Monthly								Actual Quantities of C&D Wastes Generated Monthly					
	Total Quantity Generated	Hard Rock and Large Broken Concrete (see Note 1)	Reused in the Contract	Reused in other Projects	Disposed as Public Fill (see Note 4)	Imported Fill Sand (see Note 4)	Imported Fill Public fill (see Note 4)	Imported Fill Rock (see Note 4)	Metals (see Note 5)	Paper/ cardboard packaging (see Note 5)	Plastics (see Note 2, 5)	Chemical Waste		Others, e.g. general refuse (see Note 3)
	(in ,000m ³)	(in ,000m ³)	(in ,000m ³)	(in ,000m ³)	(in ,000m ³)	(in ,000m ³)			(in ,000 kg)	(in ,000kg)	(in ,000kg)	(in ,000kg)	(in ,000L)	(in ,000 m ³)
Jan	0	0	0	0	0	82.6139	0	0	0	0	0	0	0	0.0065
Feb	0	0	0	0	0	46.7821	0	0	0	0	0	0	0	0
Mar	0	0	0	0	0	97.1000	0	0.7552	0	0.2560	0	0	0	0
Apr	0	0	0	0	0	58.0413	0	0	0	0	0	0	0	0
May	0	0	0	0	0	14.5625	0	1.4648	0	0	0	0	0	0.0065
Jun	0	0	0	0	0	0	0	6.8421	0	0	0	0	0	0
Sub-total	0	0	0	0	0	299.0998	0	9.0621	0	0.2560	0	0	0	0.0130
Jul	0	0	0	0	0	0	0	0.4289	0	0	0	0	8.4000	0.0130
Aug	0	0	0	0	0	2.5775	0	10.5600	0	0	0	0	0	0
Sep	0	0	0	0	0	6.1081	0	8.4704	0	0.3530	0	0	0	0.0065
Oct	0	0	0	0	0	9.8875	0	7.1900	0	0	0	0	0	0
Nov	0	0	0	0	0	38.3088	0	19.3105	0	0	0	0	0	0.0195
Dec	0	0	0	0	0	54.3469	0	26.9807	0	0	0	0	0	0.0910
Total	0	0	0	0	0	410.3286	0	82.0026	0	0.6090	0	0	8.4000	0.1430

- Notes:
- (1) Broken concrete for recycling into aggregates.
 - (2) Plastics refer to plastic bottles/ containers, plastic sheets/ foam from packaging materials.
 - (3) Use the conversion factor : 1 full load of dumping truck being equivalent to 6.5m³ by volume.
 - (4) Use the conversion factor: sand density = 1.6T/m³, public fill density = 1.8T/m³ and rock density = 2T/m³
 - (5) Materials recycled.

Monthly Summary Waste Flow Table for 2020 (year)

Project : Integrated Waste Management Facilities, Phase 1

Contract No.: EP/SP/66/12

Month	Actual Quantities of Inert C&D Materials Generated Monthly								Actual Quantities of C&D Wastes Generated Monthly					
	Total Quantity Generated	Hard Rock and Large Broken Concrete (see Note 1)	Reused in the Contract	Reused in other Projects	Disposed as Public Fill (see Note 4)	Imported Fill Sand (see Note 4)	Imported Fill Public fill (see Note 4)	Imported Fill Rock (see Note 4)	Metals (see Note 5)	Paper/ cardboard packaging (see Note 5)	Plastics (see Note 2, 5)	Chemical Waste		Others, e.g. general refuse (see Note 3)
	(in ,000m ³)	(in ,000m ³)	(in ,000m ³)	(in ,000m ³)	(in ,000m ³)	(in ,000m ³)			(in ,000 kg)	(in ,000kg)	(in ,000kg)	(in ,000kg)	(in ,000L)	(in ,000 m ³)
Jan	0	0	0	0	0	37.1550	0	25.0812	0	0	0	0	0	0.0065
Feb	0	0	0	0	0	27.7910	0	18.8300	0	0	0	0	0	0.0065
Mar	0	0	0	0	0	22.5669	0	26.1586	0	0	0	0	7.2000	0.0065
Apr	0	0	0	0	0	12.7800	0	10.1825	0	0	0	0	0	0.0195
May	0	0	0	0	0	16.1138	0	24.3740	0	0.4220	0	0	0	0.0195
Jun	0	0	0	0	0	31.5177	0	28.3030	0	0	0	0	0	0.0065
Sub-total	0	0	0	0	0	147.9244	0	132.9293	0	0.4220	0	0	7.2000	0.0650
Jul	0	0	0	0	0	34.7856	17.0606	35.1800	0	0	0	0	0	0.0195
Aug	0	0	0	0	0	27.1375	65.5667	27.9335	0	0	0	0	0	0
Sep	0	0	0	0	0	11.9813	110.1328	43.5435	0	0	0	0	0	0.0195
Oct	0	0	0	0	0	2.8213	131.6600	22.5415	0	0	0	0	0	0.0130
Nov	0	0	0	0	0	0	162.1811	44.6475	0	0.4090	0	0	0.4000	0.0130
Dec	0	0	0	0	0	0	174.9800	57.8380	0	0	0	0	0	0.0130
Total	0	0	0	0	0	224.6501	661.5812	364.6133	0	0.8310	0	0	7.6000	0.1430

- Notes:
- (1) Broken concrete for recycling into aggregates.
 - (2) Plastics refer to plastic bottles/ containers, plastic sheets/ foam from packaging materials.
 - (3) Use the conversion factor : 1 full load of dumping truck being equivalent to 6.5m³ by volume.
 - (4) Use the conversion factor: sand density = 1.6T/m³, public fill density = 1.8T/m³ and rock density = 2T/m³
 - (5) Materials recycled.

Monthly Summary Waste Flow Table for 2021 (year)

Project : Integrated Waste Management Facilities, Phase 1

Contract No.: EP/SP/66/12

Month	Actual Quantities of Inert C&D Materials Generated Monthly								Actual Quantities of C&D Wastes Generated Monthly					
	Total Quantity Generated	Hard Rock and Large Broken Concrete (see Note 1)	Reused in the Contract	Reused in other Projects	Disposed as Public Fill (see Note 4)	Imported Fill Sand (see Note 4)	Imported Fill Public fill (see Note 4)	Imported Fill Rock (see Note 4)	Metals (see Note 5)	Paper/ cardboard packaging (see Note 5)	Plastics (see Note 2, 5)	Chemical Waste		Others, e.g. general refuse (see Note 3)
	(in ,000m ³)	(in ,000m ³)	(in ,000m ³)	(in ,000m ³)	(in ,000m ³)	(in ,000m ³)			(in ,000 kg)	(in ,000kg)	(in ,000kg)	(in ,000kg)	(in ,000L)	(in ,000 m ³)
Jan	0	0	0	0	0	0	198.1311	36.4775	0	0	0	0	0	0.0065
Feb	0	0	0	0	0	0	143.9511	20.9960	0	0	0	0	0	0.6305
Mar	0	0	0	0	0	0	103.1833	23.4510	0	0	0	0	0	0.0130
Apr	0	0	0	0	0	0	161.2956	27.2810	0	0	0	0	0	0.0130
May	0	0	0	0	0	0	193.3300	20.5265	0	0	0	0	0	0.0715
Jun	0	0	0	0	0	0	141.5728	23.7825	0	0.2440	0	0	0	0.0455
Sub-total	0	0	0	0	0	0	941.4639	152.5145	0	0.2440	0	0	0	0.7800
Jul	0	0	0	0	0	0	105.1083	30.6065	0	0	0	0	0	0.0195
Aug	0	0	0	0	0	0	11.1822	7.5180	0	0	0	0	0	0.0130
Sep	0	0	0	0	0	0	0	5.7575	0	0	0	0	0.6000	0.0390
Oct	0	0	0	0	0	0	0	6.8885	0	0	0	0	0	0
Nov	0	0	0	0	0	0	0	6.2975	0	0.1610	0	0	0	0.0130
Dec	0	0	0	0	0	0	0	5.9235	0	0	0	0	0	0
Total	0	0	0	0	0	0	1057.7544	215.5060	0	0.4050	0	0	0.6000	0.8645

- Notes:
- (1) Broken concrete for recycling into aggregates.
 - (2) Plastics refer to plastic bottles/ containers, plastic sheets/ foam from packaging materials.
 - (3) Use the conversion factor : 1 full load of dumping truck being equivalent to 6.5m³ by volume.
 - (4) Use the conversion factor: sand density = 1.6T/m³, public fill density = 1.8T/m³ and rock density = 2T/m³.
 - (5) Materials recycled.

Monthly Summary Waste Flow Table for 2022 (year)

Project : Integrated Waste Management Facilities, Phase 1

Contract No.: EP/SP/66/12

Month	Actual Quantities of Inert C&D Materials Generated Monthly								Actual Quantities of C&D Wastes Generated Monthly					
	Total Quantity Generated	Hard Rock and Large Broken Concrete (see Note 1)	Reused in the Contract	Reused in other Projects (see Note 4)	Disposed as Public Fill (see Note 4)	Imported Fill Sand (see Note 4)	Imported Fill Public fill (see Note 4)	Imported Fill Rock (see Note 4)	Metals (see Note 5)	Paper/ cardboard packaging (see Note 5)	Plastics (see Note 2, 5)	Chemical Waste		Others, e.g. general refuse (see Note 3)
	(in ,000m ³)	(in ,000m ³)	(in ,000m ³)	(in ,000m ³)	(in ,000m ³)	(in ,000m ³)			(in ,000 kg)	(in ,000kg)	(in ,000kg)	(in ,000kg)	(in ,000L)	(in ,000 m ³)
Jan	0	0	0	0	0	0	4.9389	2.7070	0	0.1550	0	0	0	0.0715
Feb	0	0	0	0	0	0	3.2478	4.0290	0	0	0	0.4000	0.2250	0
Mar	0	0	0	0	0	0	2.3422	2.7820	0	0	0	0	0	0.0780
Apr	0	0	0	0	0	0	18.2189	5.8100	0	0.3120	0	0	0	0.1495
May	0.0648	0	0	0	0.0648	0	16.7711	17.2320	0	0	0	0	0	0.0975
Jun	0.0037	0	0	0	0.0037	0.2115	1.1128	14.1470	36.3000	0.3890	0	0	1.7250	0.0975
Sub-total	0.0685	0	0	0	0.0685	0.2115	46.6317	46.7070	36.3000	0.8560	0	0.4000	1.9500	0.4940
Jul	25.7183	0	0	25.7183	0	0.1125	0.8333	17.5210	0	0.6400	0.0060	0	0	0.1235
Aug	13.2494	0	0	13.2494	0	0	0	24.5210	76.0300	1.8870	0	0	0	0.1170
Sep	24.9072	0	0	24.8494	0.0578	0	0	16.2815	72.0600	0.3060	0	0	0	0.1885
Oct	13.3139	0	0	13.3006	0.0133	0	0	11.8665	78.1000	0.5800	0	0	0	0.2405
Nov	26.5583	0	0	26.5583	0	0	0	7.2055	0	0	0	0	0	0.1105
Dec	29.1411	0	0	29.1411	0	0	0	3.5174	0	0	0	0	0	0.2535
Total	132.9567	0	0	132.8171	0.1396	0.3240	47.4650	127.6199	262.4900	4.2690	0.0060	0.4000	1.9500	1.5275

- Notes:
- (1) Broken concrete for recycling into aggregates.
 - (2) Plastics refer to plastic bottles/ containers, plastic sheets/ foam from packaging materials.
 - (3) Use the conversion factor : 1 full load of dumping truck being equivalent to 6.5m³ by volume.
 - (4) Use the conversion factor: sand density = 1.6T/m³, public fill density = 1.8T/m³ and rock density = 2T/m³.
 - (5) Materials recycled.



Monthly Summary Waste Flow Table for 2023 (year)

Project : Integrated Waste Management Facilities, Phase 1

Contract No.: EP/SP/66/12

Month	Actual Quantities of Inert C&D Materials Generated Monthly								Actual Quantities of C&D Wastes Generated Monthly					
	Total Quantity Generated	Hard Rock and Large Broken Concrete (see Note 1)	Reused in the Contract	Reused in other Projects (see Note 4)	Disposed as Public Fill (see Note 4)	Imported Fill Sand (see Note 4)	Imported Fill Public fill (see Note 4)	Imported Fill Rock (see Note 4)	Metals (see Note 5)	Paper/ cardboard packaging (see Note 5)	Plastics (see Note 2, 5)	Chemical Waste		Others, e.g. general refuse (see Note 3)
	(in ,000m ³)	(in ,000m ³)	(in ,000m ³)	(in ,000m ³)	(in ,000m ³)	(in ,000m ³)			(in ,000 kg)	(in ,000kg)	(in ,000kg)	(in ,000kg)	(in ,000L)	(in ,000 m ³)
Jan	24.6728	0	0	24.6728	0	0	0	1.3545	0	0.3150	0	0	0	0.1365
Feb	26.7206	0	0	26.7206	0	0	0	1.8990	11.1501	0	0.0007	0	0	0.1235
Mar	22.1089	0	0	22.1089	0	0	0	0.9025	0	0	0	0	0	0.1105
Apr	36.0011	0	0	36.0011	0	0	0	0	0	0.2150	0	0	0	0.1365
May	21.8900	0	0	21.8900	0	0	0	0	0	0.3160	0	0	0	0.1495
Jun	8.8878	0	0	8.8878	0	0	0	0	0	0	0	0	0	0.1950
Sub-total	140.2812	0	0	140.2812	0	0	0	4.1560	11.1501	0.8460	0.0007	0	0	0.8515
Jul	2.2233	0	0	2.2233	0	0	0	0	0	0.3870	0	0	0	0.1495
Aug	4.4200	0	0	4.4200	0	0	0	0	0	0	0	0	0	0.2015
Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2860
Oct	0	0	0	0	0	0	0	0.4025	0	0.3770	0	0	0	0.2405
Nov	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3510
Dec	0	0	0	0	0	0	0	0.4960	0	0	0	0	0	0.3835
Total	146.9245	0	0	146.9245	0	0	0	5.0545	11.1501	1.6100	0.0007	0	0	2.4635

- Notes:
- (1) Broken concrete for recycling into aggregates.
 - (2) Plastics refer to plastic bottles/ containers, plastic sheets/ foam from packaging materials.
 - (3) Use the conversion factor : 1 full load of dumping truck being equivalent to 6.5m³ by volume.
 - (4) Use the conversion factor: sand density = 1.6T/m³, public fill density = 1.8T/m³ and rock density = 2T/m³.
 - (5) Materials recycled.



Monthly Summary Waste Flow Table for 2024 (year)

Project : Integrated Waste Management Facilities, Phase 1

Contract No.: EP/SP/66/12

Month	Actual Quantities of Inert C&D Materials Generated Monthly								Actual Quantities of C&D Wastes Generated Monthly					
	Total Quantity Generated	Hard Rock and Large Broken Concrete (see Note 1)	Reused in the Contract	Reused in other Projects (see Note 4)	Disposed as Public Fill (see Note 4)	Imported Fill Sand (see Note 4)	Imported Fill Public fill (see Note 4)	Imported Fill Rock (see Note 4)	Metals (see Note 5)	Paper/ cardboard packaging (see Note 5)	Plastics (see Note 2, 5)	Chemical Waste		Others, e.g. general refuse (see Note 3)
	(in ,000m ³)	(in ,000m ³)	(in ,000m ³)	(in ,000m ³)	(in ,000m ³)	(in ,000m ³)			(in ,000 kg)	(in ,000kg)	(in ,000kg)	(in ,000kg)	(in ,000L)	(in ,000 m ³)
Jan	0	0	0	0	0	0	0	0	22.8700	0	0	0	0	0.4940
Feb	1.9433	0	0	1.9433	0	0	0	0	0	0.3190	0	0	0	0.2665
Mar	4.4367	0	0	4.4367	0	0	0	0	0	0	0	0	0	0.3640
Apr	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5915
May	0	0	0	0	0	0	0	0	0	0.6530	0	0	0	0.7410
Jun	5.0453	0	0	0	5.0453	0	0	0.5120	0	0	0	0	0	0.4940
Sub-total	11.4253	0	0	6.3800	5.0453	0	0	0.5120	22.8700	0.9720	0	0	0	2.9510
Jul	5.5519	0	0	2.1883	3.3636	0	0	0	0	0.6060	0	0	0	0.7215
Aug	2.1000	0	0	2.1000	0	0	0	0	0	0	0	0	0	0.6955
Sep	2.1894	0	0	2.1894	0	0	0	0	0	0	0	0	0	0.7540
Oct	0	0	0	0	0	0	0	0	0	0.2860	0	0	0	0.8775
Nov	0	0	0	0	0	0	0	0	0	0	0	0	0	0.7995
Dec	0.0033	0	0	0	0.0033	0	0	0	0	0.4950	0	0	0	1.0985
Total	21.2699	0	0	12.8577	8.4122	0	0	0.5120	22.8700	2.3590	0	0	0	7.8975

- Notes:
- (1) Broken concrete for recycling into aggregates.
 - (2) Plastics refer to plastic bottles/ containers, plastic sheets/ foam from packaging materials.
 - (3) Use the conversion factor : 1 full load of dumping truck being equivalent to 6.5m³ by volume.
 - (4) Use the conversion factor: sand density = 1.6T/m³, public fill density = 1.8T/m³ and rock density = 2T/m³.
 - (5) Materials recycled.

Monthly Summary Waste Flow Table for 2025 (year)

Project : Integrated Waste Management Facilities, Phase 1

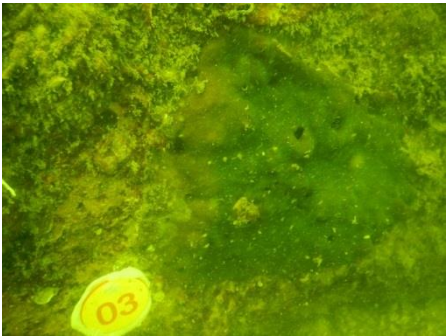
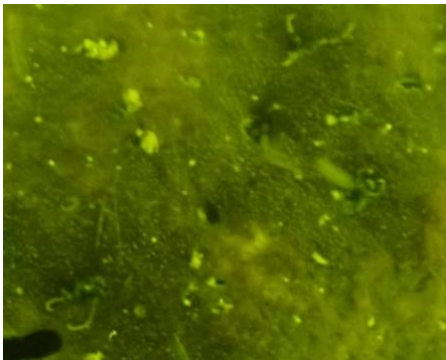
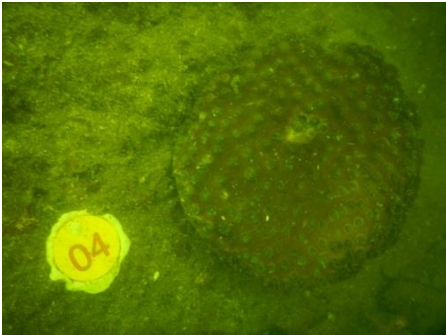
Contract No.: EP/SP/66/12

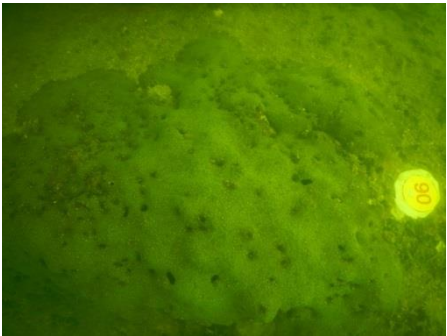
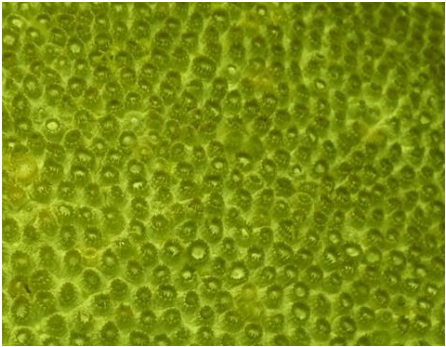
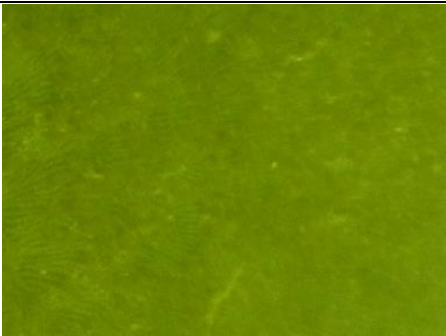
Month	Actual Quantities of Inert C&D Materials Generated Monthly								Actual Quantities of C&D Wastes Generated Monthly					
	Total Quantity Generated	Hard Rock and Large Broken Concrete (see Note 1)	Reused in the Contract	Reused in other Projects (see Note 4)	Disposed as Public Fill (see Note 4)	Imported Fill Sand (see Note 4)	Imported Fill Public fill (see Note 4)	Imported Fill Rock (see Note 4)	Metals (see Note 5)	Paper/ cardboard packaging (see Note 5)	Plastics (see Note 2, 5)	Chemical Waste		Others, e.g. general refuse (see Note 3)
	(in ,000m ³)	(in ,000m ³)	(in ,000m ³)	(in ,000m ³)	(in ,000m ³)	(in ,000m ³)			(in ,000 kg)	(in ,000kg)	(in ,000kg)	(in ,000kg)	(in ,000L)	(in ,000 m ³)
Jan	0	0	0	0	0	0	0	0	0	0	0	0	0	0.8645
Feb	2.8956	0	0	0	2.8956	0	0	0	0	0.5800	0	0	0	0.8125
Mar	1.6508	0	0	0	1.6508	0	0	0	0	0.6090	0	0	0	1.3715
Apr	0	0	0	0	0	0	0	0	0	0	0	0	0	1.2805
May	0	0	0	0	0	0	0	0	0	0	0	0	0.1000	1.6640
Jun	0	0	0	0	0	0	0	0	0	0.7200	0	0	0	1.2610
Sub-total	4.5464	0	0	0	4.5464	0	0	0	0	1.9090	0	0	0.1000	7.2540
Jul														
Aug														
Sep														
Oct														
Nov														
Dec														
Total	4.5464	0	0	0	4.5464	0	0	0	0	1.9090	0	0	0.1000	7.2540

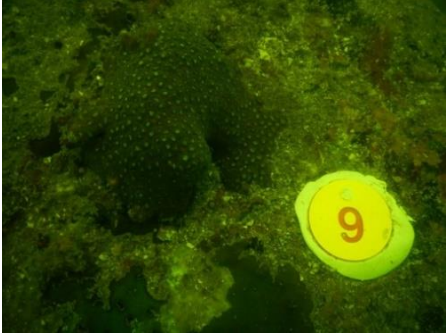
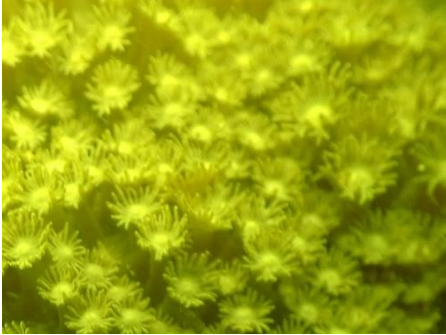
- Notes:
- (1) Broken concrete for recycling into aggregates.
 - (2) Plastics refer to plastic bottles/ containers, plastic sheets/ foam from packaging materials.
 - (3) Use the conversion factor : 1 full load of dumping truck being equivalent to 6.5m³ by volume.
 - (4) Use the conversion factor: sand density = 1.6T/m³, public fill density = 1.8T/m³ and rock density = 2T/m³.
 - (5) Materials recycled.

Appendix E Photo Records for Coral Monitoring

**Photo Plate for Tagged and Re-tagged Corals at Control Site during the 26th Quarterly Coral Monitoring
during Construction Phase on 17 June 2025**

Tag #	Baseline (26 June 2018 & 3 December 2018)	17 June 2025
#1	 <i>Goniopora stutchburyi</i>	 <i>Goniopora stutchburyi</i>
#2R	 <i>Goniopora stutchburyi</i>	 <i>Goniopora stutchburyi</i>
#3	 <i>Psammocora superficialis</i>	 <i>Psammocora superficialis</i>
#4	 <i>Turbinaria peltata</i>	 <i>Turbinaria peltata</i>

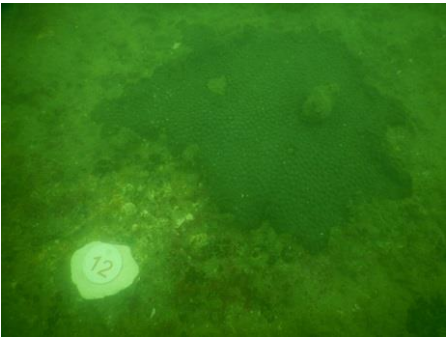
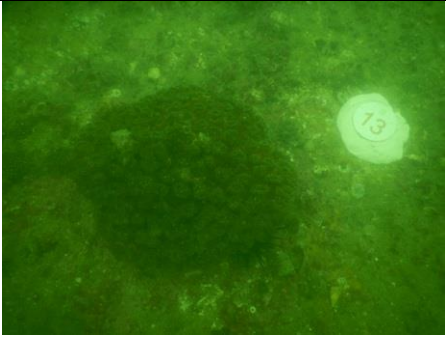
Tag #	Baseline (26 June 2018 & 3 December 2018)	17 June 2025
#5R	 <i>Goniopora stutchburyi</i>	 <i>Goniopora stutchburyi</i>
#6	 <i>Cyphastrea serailia</i>	 <i>Cyphastrea serailia</i>
#7R	 <i>Coscinaraea</i> sp.	 <i>Coscinaraea</i> sp.
#8	 <i>Goniopora stutchburyi</i>	 <i>Goniopora stutchburyi</i>

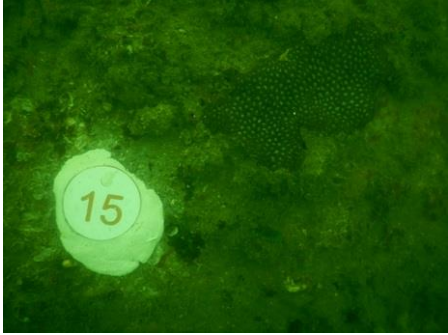
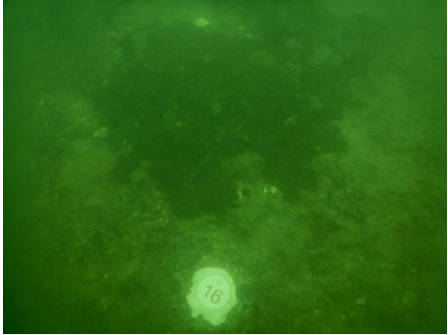
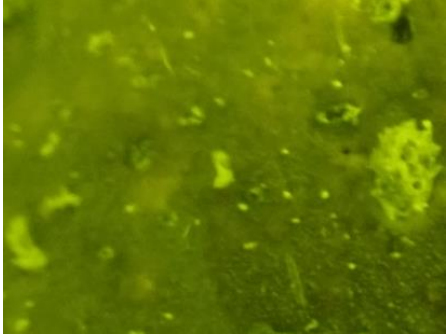
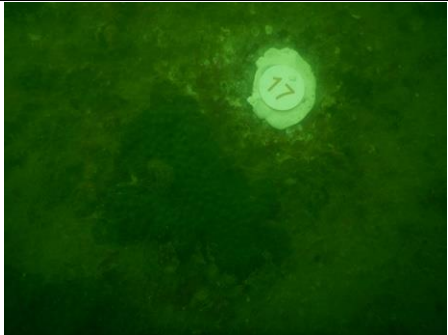
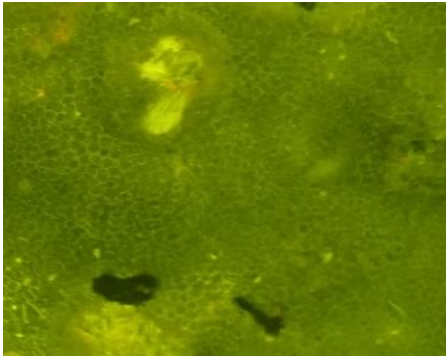
Tag #	Baseline (26 June 2018 & 3 December 2018)	17 June 2025
#9	 <i>Goniopora stutchburyi</i>	 <i>Goniopora stutchburyi</i>
#10R	 <i>Goniopora stutchburyi</i>	 <i>Goniopora stutchburyi</i>

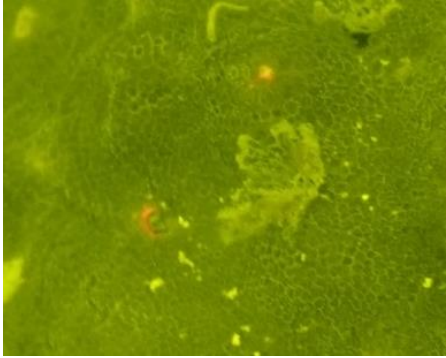
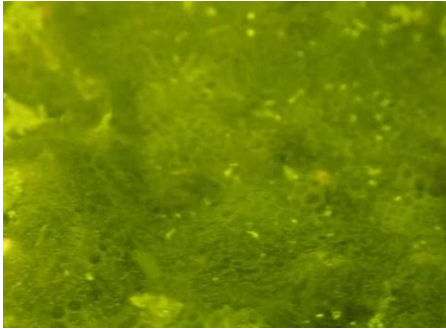
Notes:

- i. The re-tagged corals were marked as ##**R**.

Photo Plate for Re-tagged Corals at Indirect Impact during the 26th Quarterly Coral Monitoring during Construction Phase on 17 June 2025

Tag #	Baseline (23 November 2018)	17 June 2025
#11R	 <i>Cyphastrea serailia</i>	 <i>Cyphastrea serailia</i>
#12R	 <i>Favites chinensis</i>	 <i>Favites chinensis</i>
#13R	 <i>Turbinaria peltata</i>	 <i>Turbinaria peltata</i>
#14R	 <i>Favites chinensis</i>	 <i>Favites chinensis</i>

Tag #	Baseline (23 November 2018)	17 June 2025
#15R	 <i>Goniopora stutchburyi</i>	 <i>Goniopora stutchburyi</i>
#16R	 <i>Psammocora superficialis</i>	 <i>Psammocora superficialis</i>
#17R	 <i>Favites chinensis</i>	 <i>Favites chinensis</i>
#18R	 <i>Psammocora superficialis</i>	 <i>Psammocora superficialis</i>

Tag #	Baseline (23 November 2018)	17 June 2025
#19R	 <i>Psammocora superficialis</i>	 <i>Psammocora superficialis</i>
#20R	 <i>Psammocora superficialis</i>	 <i>Psammocora superficialis</i>

Notes:

- i. The re-tagged corals were marked as ##**R**.

Appendix F Photo Records for White-bellied Sea Eagle Monitoring

Photo Plate for 82nd Monthly WBSE monitoring



One WBSE chick recorded next to the nest on 24 April 2025



Two WBSE chicks recorded inside the nest on 1 May 2025

Photo Plate for 83rd Monthly WBSE monitoring



One WBSE chick recorded next to the nest on 14th May 2025



Two WBSE chicks recorded inside the nest on 28th May 2025

Photo Plate for 84th Monthly WBSE monitoring



One WBSE adult recorded next to the nest on 17 June 2025



Two WBSE chicks recorded inside the nest on 17 June 2025

Appendix G Complaint Log

Statistical Summary of Environmental Complaints

Reporting Period	Environmental Complaint Statistics		
	Frequency	Cumulative	Complaint Nature
1 Apr 2025-30 Apr 2025	0	4	N/A
1 May 2025-31 May 2025	0	4	N/A
1 June 2025-30 June 2025	0	4	N/A

Statistical Summary of Environmental Summons

Reporting Period	Environmental Summons Statistics		
	Frequency	Cumulative	Details
1 Apr 2025-30 Apr 2025	0	0	N/A
1 May 2025-31 May 2025	0	0	N/A
1 June 2025-30 June 2025	0	0	N/A

Statistical Summary of Environmental Prosecution

Reporting Period	Environmental Prosecution Statistics		
	Frequency	Cumulative	Details
1 Apr 2025-30 Apr 2025	0	0	N/A
1 May 2025-31 May 2025	0	0	N/A
1 June 2025-30 June 2025	0	0	N/A