

Contract No. EP/SP/66/12 Integrated Waste Management Facilities, Phase 1 Monthly EM&A Report No.72



吉寶西格斯-振華聯營公司 KEPPEL SEGHERS - ZHEN HUA JOINT VENTURE

Monthly EM&A Report No.72 (Period from 1 June to 30 June 2024)

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

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	Prepared by:	Certified by:	Verified by:
Name	Joe Ho	F.C. Tsang	Mandy To
Position	Environmental Team	Environmental Team Leader	Independent Environmental Checker
Signature	J.	Toang Fauldearg	Mandez .
Date:	12 July 2024	12 July 2024	12 July 2024

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Revision History

Rev.	DESCRIPTION OF MODIFICATION	DATE
A	First Submission	12 July 2024

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EXECUTIVE SUMMARY

Introduction

- 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 72nd Monthly EM&A Report, prepared by ASCL, for the Project summarizing the monitoring results and audit findings of the EM&A programme at and around Shek Kwu Chau (SKC) during the reporting period from 1 June to 30 June 2024.

Summary of Main Works Undertaken & Key Mitigation Measures Implemented

- A4. Key activities carried out in this reporting period for the Project included the following:
 - Reclamation Area:
 - Pile cap construction
 - Structural steel work
 - Superstructure construction
 - Seawall Portion:
 - Caisson extension works, from +3mPD to +6mPD, at Seawall A and B
 - Construction of wave wall along the vertical seawall above +3mPD
- A5. The key environmental mitigation measures implemented for the Project in this reporting period associated with the construction activities include:
 - Reduction of noise from equipment and machinery on-site;
 - Sorting, recycling, storage and disposal of general refuse and construction waste;
 - Management of chemicals and avoidance of oil spillage on-site;
 - Confirmation of the absence of silt content in the rock filling material and the filling work is properly conducted;
 - Dust suppression measures for exposed earth surface and stockpile of dusty material; and
 - Site runoff control measure during rainstorm.

Summary of Exceedance & Investigation & Follow-up

- A6. The EM&A works for construction waste, noise monitoring, White-Bellied Sea Eagle (WBSE) monitoring and coral monitoring were conducted during the reporting period in accordance with the Updated EM&A Manual.
- A7. No exceedance of the Action or Limit Levels in relation to noise, construction waste, WBSE and coral monitoring was recorded in the reporting month.
- A8. Weekly site inspections of the construction work by ET were carried out on 4, 11, 18 and 25 June 2024 to audit the mitigation measures implementation status. Monthly joint site inspection was carried out on 18 June 2024 by ET and IEC. Observations were recorded in the site inspection checklists and provided to the contractors together with the appropriate follow-up actions where necessary.

Complaint Handling and Prosecution

- A9. No project-related environmental complaint was received during the reporting period.
- A10. Neither notifications of summons nor prosecution was received for the Project.

Reporting Change

A11. As confirmed with Contractor, no marine construction work will be carried out from April to June 2024 tentatively. An updated EM&A arrangement to extend the temporary suspension of water quality and line-transect monitoring from April to June 2024 was submitted to EPD on 27 February 2024. EPD advised no objection on the extension on 18 March 2024. Temporary suspension of water quality and line-transect monitoring were extended from 31 March 2024 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 the motification from contractor.

Summary of Upcoming Key Issues and Key Mitigation Measures

- A12. Key activities anticipated in the next reporting period for the Project will include the following:
 - Reclamation Area:
 - Pile cap construction
 - Structural steel work
 - Superstructure construction
 - Seawall Portion:
 - Caisson extension works, from +3mPD to +6mPD, at Seawall A and B
 - Construction of wave wall along the vertical seawall above +3mPD

- A13. The key environmental mitigation measures for the Project in the coming reporting period associated with the construction activities will include:
 - Reduction of noise from equipment and machinery on-site;
 - Sorting, recycling, storage and disposal of general refuse and construction waste;
 - Management of chemicals and avoidance of oil spillage on-site, especially under heavy rains and adverse weather;
 - Dust control of exposed soil surface and stockpile of dusty material at reclaimed area;
 - Dust suppression measures for exposed earth surface and stockpile of dusty material; and
 - Site runoff control measure during construction works.

1. BASIC PROJECT INFORMATION

1.1 Background

- 1.1.1 The Government of Hong Kong SAR will develop the Integrated Waste Management Facilities (IWMF) Phase 1 (hereafter "the Project") with incineration to achieve substantial bulk reduction of unavoidable municipal solid waste (MSW) and to recover energy from the incineration process. The IWMF will be on an artificial island to be formed by reclamation at the south-western coast of Shek Kwu Chau. Keppel Seghers Zhen Hua Joint Venture (KSZHJV) was awarded the contract under Contract No. EP/SP/66/12 Integrated Waste Management Facilities Phase 1 to construct and operate the Project.
- 1.1.2 An environmental impact assessment (EIA) study for the Project has been conducted and the EIA Report was approved under the Environmental Impact Assessment Ordinance on 17 January 2012. An Environmental Permit (EP) (EP No.: EP-429/2012) was granted to EPD on 19 January 2012 for the construction and operation of the Project. Subsequently, the EP was amended (EP No.: EP-429/2012/A) and a further EP (FEP) (EP No.: FEP-01/429/2012/A) was granted to the Keppel Seghers – Zhen Hua Joint Venture (KSZHJV) on 27 December 2017.
- 1.1.3 A further EP (FEP) (EP No.: FEP-02/429/2012/A) on Submarine Cable for the Development of the Project was granted to CLP Power Hong Kong Limited (CLP) on 17 January 2020.
- 1.1.4 The key design and construction elements of the Project include the Design and the Works including but not limited to the design, engineering procurement, construction, testing and commissioning of the Facility including:
 - Ground Treatment works;
 - Seawall and Breakwater construction;
 - Non-dredged Reclamation;
 - Other Marine works and Harbour and Port Facilities;
 - Site formation;
 - Municipal Solid Waste (MSW) Treatment Processes;
 - Energy Recovery for Power Generation and Surplus Electricity export;
 - Wastewater treatment process;
 - Desalination and water treatment process;
 - Civil works;
 - Building and Structural works;
 - Electrical and Mechanical works;
 - Building Services;
 - Architectural and Landscaping works; and
 - All other design and works required for the operation and maintenance of the Facility according to the Contract requirements.

1.1.5 The location of the IWMF near Shek Kwu Chau (SKC) and general layout of IWMF are shown in **Figure 1.1** and **Figure 1.2** respectively.

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Keppel Seghers – Zhen Hua Joint Venture

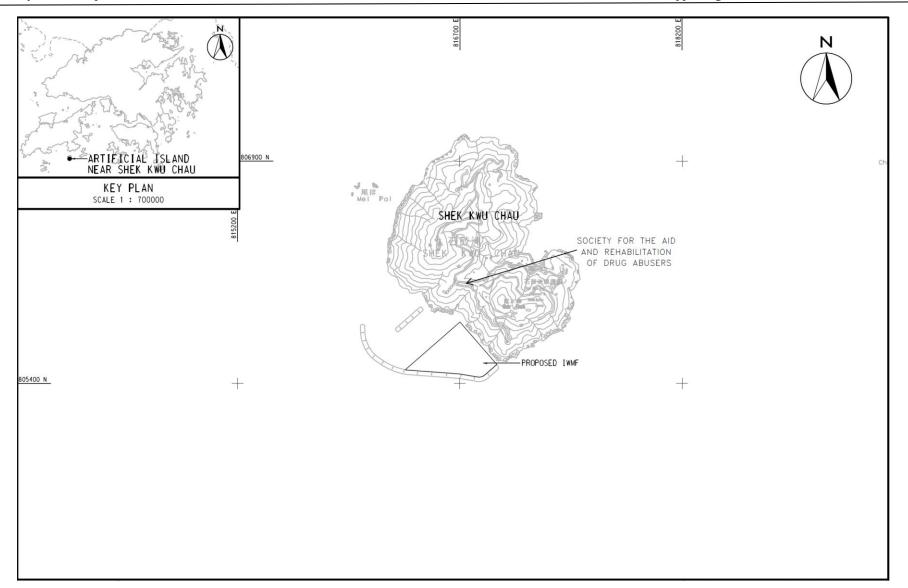


Figure 1.1 Location of the IWMF at the Artificial Island near SKC

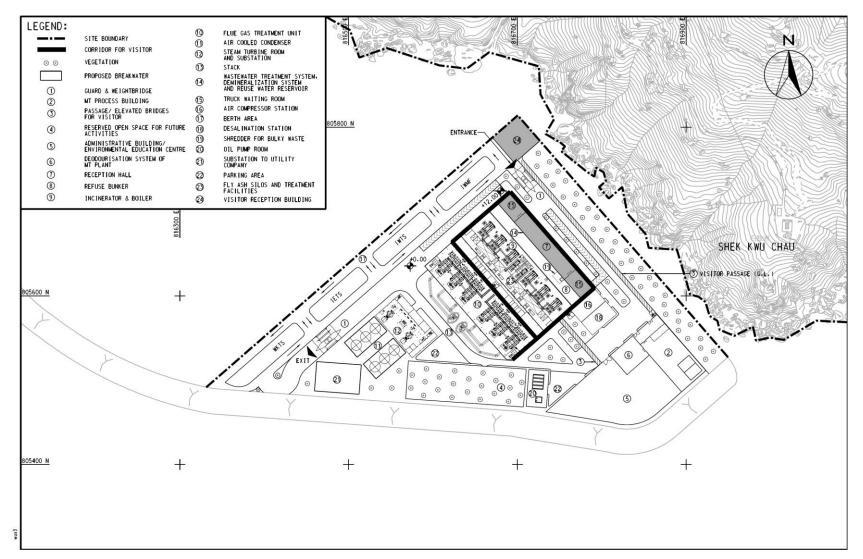


Figure 1.2 General Layout of the IWMF at the Artificial Island near SKC

1.2 The Reporting Scope

- 1.2.1 This is the 72nd Monthly EM&A Report for the Project which summarizes the key findings of the EM&A programme during the reporting period from 1 June 2024 to 30 June 2024.
- 1.3 Project Organization
- 1.3.1 The Project Organization structure for Construction Phase is presented in **Figure 1.3**.

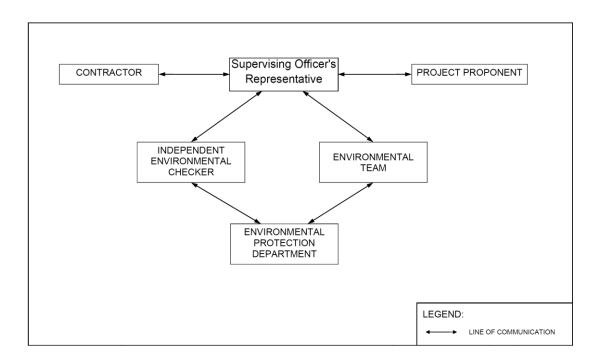


Figure 1.3 Project Organization Chart

1.3.2 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.
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

1.4 Summary of Construction Works

1.4.1 Details of the major construction activities undertaken in this reporting period are shown in **Table 1.2** and **Figure 1.4** below. The construction programme is presented in **Appendix A**.

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

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

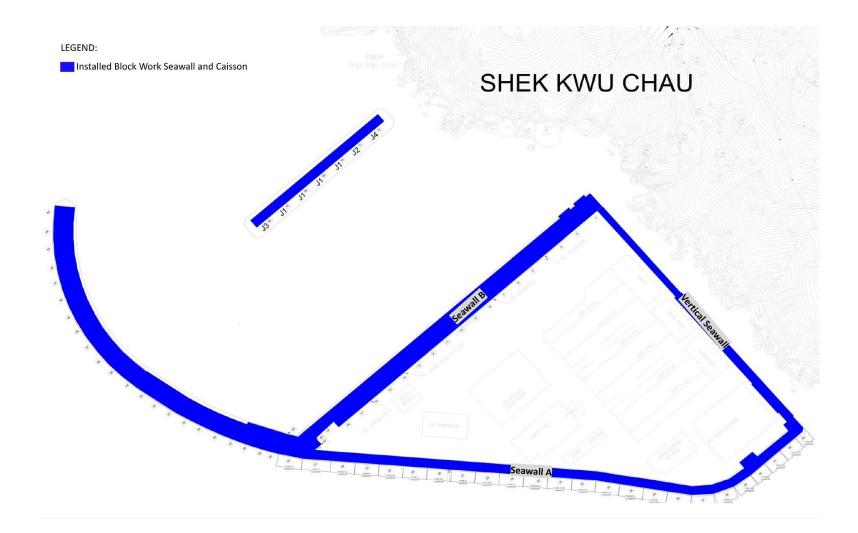


Figure 1.4 Location of Major Construction Activities Undertaken during the Reporting Month

1.5 Summary of Environmental Status

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

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

 and Documentations

Permit/ Licences/	Reference	Validity	Remarks
Notification		Period	
Variation of	EP-429/2012/A	Throughout	
Environmental Permit		the Contract	
Further	FEP-01/429/2012/A	Throughout	
Environmental Permit		the Contract	
Notification of	Ref No.: 428778	15/12/2017 -	
Construction Works		22/09/2024	
under the Air			
Pollution Control			
(Construction Dust)			
Regulation (Form			
NA)			
Wastewater Discharge	WT00039438-2021	15/02/2022 -	
Licence		28/02/2027	
Chemical Waste	WPN0017-933-K3301-	Throughout	
Producer Registration	01	the Contract	
	WPN5213-961-K3301-	Throughout	
	02	the Contract	
	WPN5296-839-K3301-	Throughout	
	03	the Contract	
Billing Account for	A/C No.:7029768	Throughout	
Disposal of		the Contract	
Construction Waste			

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

Parameters	Status		
Water Quality	1		
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 will be carried out from April to June 2024 tentatively. An updated EM&A arrangement to extend the temporary suspension of water quality and line-transect monitoring from April to June 2024 was submitted to EPD on 27 February 2024. EPD advised no objection on the extension on 18 March 2024. Temporary suspension of water quality and line-transect monitoring were extended from 31 March 2024 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		
Post DCM Monitoring	notification from contractor.All DCM was completed on 14 October 2020, regular DCMmonitoring for further 4 weeks (i.e form 16 October 2020 to 14November 2020) was completed according to the approvedDetailed 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 Dra translagation Survey	The Corol Translocation Dian was submitted and annexed by		
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		
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		

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

Acuity Sustainability Consulting Limited

Parameters	Status
rarameters	December 2018.
Post Do togoin o Corol	
Post Re-tagging Coral	On-going (1997)
Monitoring Marine Mammal	
Vessel-based Line-transect	The baseline marine momental maritarine result has been
	The baseline marine mammal monitoring result has been
Survey Baseline Monitoring	reported in Baseline Monitoring Report and submitted to EPD under FEP Condition 3.4
Vessel-based Line-transect	Temporarily suspended since 30 March 2023, as no marine
Survey Impact Monitoring	construction works as defined in the approved EIA report
Survey impact Monitoring	(AEIAR-163/2012) and the Updated EM&A Manual was
	conducted in this reporting month.
Land-based Theodolite	30 days of theodolite surveys were started on 21 February 2019
Tracking	and completed in May 2019.
Passive Acoustic	30 days of PAM surveys were started on 1 May 2019 and
Monitoring	completed by 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	On-going
Measures of Air Quality,	
Noise Impact, Water	
Quality, Waste, Ecological	
Quality, Fisheries,	
Landscape and Visual	
Mitigation Measures in	Installation of caisson No.19 was completed on 18 March 2021,
Marine Mammal Watching	which the reclamation area had been totally enclosed by
Plan (MMWP)	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
Mitigation Maggungs in	programme.
Mitigation Measures in Detailed Monitoring	Installation of caisson No.19 was completed on 18 March 2021, which the reclamation area had been totally enclosed by
Programme on Finless	permanent structure. Floating type silt curtain at marine access
Porpoise (DMPFP)	was removed on 18 March 2021. No enclosed area shall be
Torpoise (Dimiti)	formed by deployment of silt curtain for the remaining works
	programme.
Mitigation Measures in	On-going
Vessel Travel Details	
Daily Site Audit and	Completed
Monitoring for Dredging	•
Work	

- 1.5.3 Other than the EM&A work by ET, environmental briefings, trainings and regular environmental management meetings were conducted, in order to enhance environmental awareness and closely monitor the environmental performance of the contractors.
- 1.5.4 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 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 Requirements
- 2.1.1 To ensure no adverse water quality impact, water quality monitoring is recommended to be carried out at the nearby water sensitive receivers (WSRs) during construction phase including proposed reclamation, breakwater construction, etc.
- 2.1.2 In accordance with the Updated EM&A Manual, impact water quality monitoring were conducted 3 days per week at mid-flood and mid-ebb tide to obtain impact water quality levels at the eleven monitoring stations during general water quality monitoring for the reporting period.
- 2.2 Water Quality Parameters, Time, Frequency
- 2.2.1 Dissolved Oxygen (DO), Turbidity, Suspended Solids (SS), Salinity and pH have been undertaken at the eleven monitoring stations during general water quality monitoring.
- 2.2.2 DO, temperature, salinity, turbidity and pH have been measured in-situ and the SS, has been assayed in a HOKLAS laboratory.
- 2.2.3 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. The monitoring schedule is provided in **Appendix C**.
- 2.2.4 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 general water quality monitoring. The interval between two sets of monitoring has not been less than 36 hours.
- 2.2.5 **Table 2.1** summarizes the monitoring parameters, frequency and duration of the impact water quality monitoring during construction phase.

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 	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 less than 6m, mid-depth may be omitted.

 Table 2.1 Water Quality Monitoring Parameters, Frequency and Duration

2.3 Water Quality Monitoring Locations

2.3.1 Impact water quality monitoring was conducted at eleven monitoring locations (B1-B4, H1, C1, C2, F1, CR1, CR2 & M1) during general water quality monitoring in the reporting period as shown in **Figure 2.1**. As per the relocation proposal verified by IEC and approved by EPD, the monitoring location C1, C2, S2, F1 are relocated at C1A, C2A, S2A, F1A as equivalent points respectively to clear up the concerns from stakeholders.

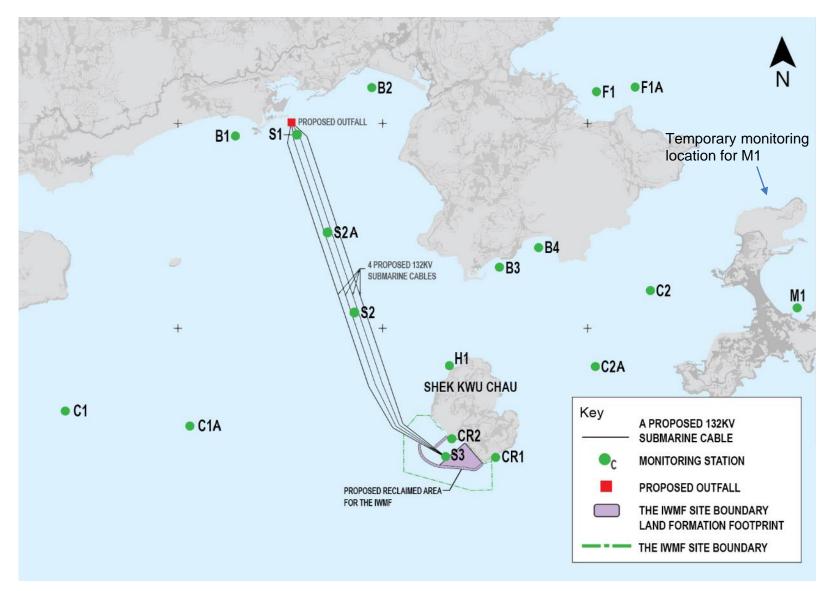


Figure 2.1 Water monitoring locations at Artificial Island near SKC

2.3.2 B1 to B4 are located at 4 beaches respectively at the southern shore of Lantau Island. Monitoring station H1 is located at the horseshoe crab habitat at northern SKC, while CR1 and CR2 are located at the coral communities at southwestern shore of SKC. Monitoring station F1 is located at the Cheung Sha Wan Fish Culture Zone while monitoring station M1 is located at Tung Wan at Cheung Chau. Monitoring station F1A is relocated for F1 at the Cheung Sha Wan Fish Culture Zone. S1, S2 and S3 are located at the northern landing site, midway and southern landing site of the proposed submarine cable, respectively. S2A is the relocated monitoring station of S2 which represents the midway landing site of the proposed submarine cable. S1, S2/S2A and S3 are required for monitoring due to the laying of submarine cable. Control stations C1 and C2 at far field locations are for comparison. Control stations C1A and C2A are relocated for C1 and C2 respectively as equivalent far field locations for comparison.

2.3.3 Fourteen monitoring stations are listed in **Table 2.2**.

Monitoring station	Description	Easting	Northing
B1	Beach – Cheung Sha Lower	813342	810316
B2	Beach – Pui O	815340	811025
B3	Beach – Yi Long Wan	817210	808395
B4	Beach – Tai Long Wan	817784	808682
H1	Horseshoe Crab – Shek Kwu Chau	816477	806953
C1	Control Station (note i)	810850	806288
C1A	Relocated Control Station	812823	806300
C2	Control Station (note ii)	819421	808053
C2A	Relocated Control Station	818869	806808
F1	Cheung Sha Wan Fish Culture Zone (note iii)	818631	810966
F1A	Cheung Sha Wan Fish Culture Zone	819109	810924
S1	Submarine Cable Landing Site	814245	810335
S2	Submarine Cable (note iv)	815076	807747
S2A	Submarine Cable	814808	808515
\$3	Submarine Cable Landing Site	816420	805621
CR1	Coral	817144	805597
CR2	Coral	816512	805882
M1	Tung Wan	821572	807799

Table 2.2 Locations of Marine Water Quality Stations

Note:

i. Relocated to C1A in Mar 2019

ii. Relocated to C2A in Mar 2019

iii. Relocated to S2A in Mar 2019

iv. Relocated to F1A in Mar 2019

2.4 Impact Monitoring Methodology

- 2.4.1 General water quality monitoring was conducted three days per week, at mid-flood and mid-ebb tides, at the designated water quality monitoring stations during the reporting period.
- 2.4.2 The interval between 2 sets of monitoring was not less than 36 hours. Sampling was collected at three water depths, namely, 1m below water surface, mid-depth and 1m above seabed, except where the water depth is less than 6m, the mid-depth was omitted. If the water depth was less than 3m, only the mid-depth station was monitored.
- 2.4.3 Duplicate in-situ measurements and water sampling were carried out in each sampling event. The monitoring probes were retrieved out of water after the first measurement and then redeployed for the second measurement. When the difference in value between the first and second readings of DO or turbidity is more than 25% of the value of the first reading, the reading would be discarded and further readings would be taken.

In-situ Measurement

2.4.4 Levels of DO, pH, temperature, turbidity and salinity would be measured in-situ by portable and weatherproof measuring instrument, e.g. YSI ProDSS and Horiba U-53 Multiparameter complete with cable and sensor. (Refer to http://www.ysi.com/ProDSS for YSI ProDSS technical specification and https://static.horiba.com/fileadmin/Horiba/Products/Process_and_Environmental/Wat er_Pollution/Instruction_Manuals/U-50/U-50_SS_E.pdf for Horiba U-53 technical specification). Water current velocity and water current direction would be measured by portable and weatherproof current meter, e.g. SonTek Hydrosurveyor (Refer to https://www.sontek.com/hydrosurveyor for SonTek Hydrosurveyor M9 technical specification). Parameters measured by in-situ measurement is tabulated in Table 2.3

Parameter	Resolution	Range	
Temperature	0.1 °C	-5-70 °C	
Dissolved Oxygen (DO)	0.01 mg/L	0-50.0 mg/L	
Turbidity	0.1 NTU	0-1000 NTU	
рН	pH 0.01	pH 0-14	
Salinity	0.01 ppt	0-40 ppt	
Water Current Velocity	0.001m/s	±20m/s	
Water Current Direction	$\pm 1^{\circ}$	$\pm 2^{\circ}$	

Laboratory Analysis

2.4.5 Analysis of SS shall be carried out in a HOKLAS accredited laboratory. Sufficient water samples shall be collected at the monitoring stations for carrying out the laboratory determinations. The determination work shall be started within 24 hours after collection of the water samples. Analytical methods and detection limits for SS is presented in **Table 2.4**.

Table 2.4 Analytical Methods Applied to Water Quality Samples

Parameter	Analytical method	Detection Level
Suspended Solids, SS	APHA 2540 D ⁱ	1 mg/L

Footnote:

"APHA 2540 D" stands for American Public Health Association Standard Methods for the Examination of Water and Wastewater, 23rd Edition.

Field Log

- 2.4.6 Other relevant data was recorded, such as: monitoring location / position, time, water depth, weather conditions and any special phenomena underway near the monitoring station.
- 2.5 Monitoring Equipment
- 2.5.1 Equipment used in the impact water quality monitoring programme is summarized in **Table 2.5** below.

Table 2.5 Impact Water Quality Monitoring Equipment

Monitored Parameter	Equipment	Brand and Model	
DO, Temperature, Salinity,	Multi-functional Meter	Horiba U-53	
pH and Turbidity		YSI ProDSS Multi Parameter	
Coordinates	Positioning Equipment	Garmin GPSMAP 78s	
Water depth	Water Depth Detector	Hummingbird 160 Portable	
SS	Water Sampler	Wildco 2 L Water Sampler	
		with messenger	

2.5.2 Dissolved Oxygen and Temperature Measuring Equipment

The instrument is a portable and weatherproof DO probe mounted on the multifunctional meter complete with cable and sensor and is powered by a DC supply source. The equipment was capable of measuring:

- A DO level in the range of 0 50 mg/L; and
- Temperature of -5 70 degree Celsius.

2.5.3 Turbidity Measurement Instrument

The instrument is a portable and weatherproof turbidity-measuring probe mounted on the multi-functional meter and is powered by a DC supply source. The instrument is equipped with a photoelectric sensor which is capable of measuring turbidity between 0 - 1000 NTU.

2.5.4 pH Measurement Instrument

The probe consists of a potentiometer, a glass electrode, a reference electrode and a temperature-compensating device mounted on the multi-functional meter. It is readable to 0.1 pH in a range of 0 to 14. Standard buffer solutions of at least pH 7 and pH 10 were used for calibration of the instrument before and after use.

2.5.5 Salinity Measurement Instrument

A portable salinometer mounted on the multi-functional meter capable of measuring salinity in the range of 0-40 parts per thousand (ppt) was provided for measuring salinity of the water at each monitoring location.

2.5.6 Sampler

The water sampler comprises a transparent PVC cylinder, with a capacity of not less than 2 litres, which can be effectively sealed with latex cups at both ends. The sampler has a positive latching system to keep it open and prevent premature closure until released by a messenger when the sampler is at the selected water depth.

2.5.7 Sample Containers and Storage

Water samples for SS were stored in high density polythene bottles with no preservative added, packed in ice (cooled to 4°C without being frozen) and delivered to the laboratory and analysed as soon as possible after collection. Sufficient volume of samples was collected to achieve the detection limit stated in **Table 2.4**.

2.5.8 Water Depth Detector

A portable, battery-operated echo sounder was used for the determination of water depth at each designated monitoring station. This unit could either be hand-held or affixed to the bottom of the work boat, if the same vessel is to be used throughout the monitoring programme.

2.5.9 Monitoring Position Equipment

Hand-held digital Differential Global Positioning System (DGPS) with way point bearing indication and Radio Technical Commission for maritime (RTCM) Type 16 error message 'screen pop-up' facilities (for real-time auto-display of error messages and DGPS corrections from the Hong Kong Hydrographic Office) was provided and used to ensure that the water sampling locations were correct during the water quality monitoring work.

- 2.6 Maintenance and Calibration
- 2.6.1 The multi-functional meters were checked and calibrated before use. Multi-functional meters were certified by a laboratory accredited under HOKLAS or any other international accreditation scheme, and subsequently re-calibrated at three monthly intervals throughout all stages of the water quality monitoring. Responses of sensors and electrodes were checked with certified standard solutions before each use. Wet bulb calibration for a DO meter was carried out before commencement of monitoring and after completion of all measurements each day. Calibration was not conducted at each monitoring location as daily calibration is adequate for the type of DO meter employed.
- 2.6.2 Sufficient stocks of spare parts were provided and maintained for replacements when necessary. Backup monitoring equipment was prepared for uninterrupted monitoring during equipment maintenance or calibration during monitoring.

2.7 Action and Limit Levels

2.7.1 The Action and Limit Levels have been set based on the derivation criteria specified in the Updated EM&A Manual and Detailed DCM Plan, as shown in **Table 2.6** below.

Parameters	Action	Limit	
Construction P	hase Impact Monitoring		
DO in mg/L	D in mg/L ≤ 5 %-ile of baseline data ≤ 4		
SS in mg/L	\geq 95 %-ile of baseline data or 120% of control station's SS at the same tide of the same day of measurement, whichever is higher	\geq 99 %-ile of baseline data or 130% of control station's SS at the same tide of the same day of measurement, whichever is higher	
Turbidity in NTU	\geq 95 %-ile of baseline data or 120% of control station's turbidity at the same tide of the same day of measurement, whichever is higher	\geq 99 %-ile of baseline data 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	

Table 2.6 Criteria of Action and Limit Levels for Water Quality

2.7.2 Based on the baseline monitoring data and the derivation criteria specified above, the Action/Limit Levels have been derived and are presented in **Table 2.7** and **Table 2.8** for both dry seasons (October – March) and wet seasons (April – September).

Parameters	Action	Limit	
Construction Pha	ase Impact Monitoring		
DO in mg/L	≤7.13	\leq 4	
SS in mg/L	\geq 8 or 120% of control station's SS at the same tide of the same day of measurement, whichever is higher	\geq 10 or 130% of control station's SS at the same tide of the same day of measurement, whichever is higher	
Turbidity in NTU	\geq 5.6 or 120% of control station's turbidity at the same tide of the same day of measurement, whichever is higher	\geq 12.8 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.

Parameters	Action	Limit
Construction Pha	ase Impact Monitoring	
DO in mg/L	\leq 5.28	\leq 4
SS in mg/L	\geq 12 or 120% of control station's SS at the same tide of the same day of measurement, whichever is higher	\geq 14 or 130% of control station's SS at the same tide of the same day of measurement, whichever is higher
Turbidity in NTU	\geq 4.0 or 120% of control station's turbidity at the same tide of the same day of measurement, whichever is higher	\geq 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

Table 2.8 Derived Action and Limit Levels for Water Q	Duality (Wet Season)
Tuble 210 Dell'eta fiellon una Emilie Ectels for trater y	Zuanty (met beabon)

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.

- 2.7.3 If exceedances were found during water quality monitoring, the actions in accordance with the Event and Action Plan shall be carried out according to **Appendix D**.
- 2.8 Monitoring Results and Observations
- 2.8.1 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. As no marine construction work will be carried out from April to June 2024 and EPD had no comment on temporary suspension of water quality monitoring on 18 March 2024, the temporary suspension of water quality monitoring were extended from 31 March 2024 onward.

3. Noise Monitoring

3.1 Monitoring Requirements

- 3.1.1 To ensure no adverse noise impact, noise monitoring is recommended to be carried out at the nearby noise sensitive receivers (NSRs) during construction phase.
- 3.1.2 In accordance with the Updated EM&A Manual, baseline noise level at the noise monitoring stations was established as presented in the Baseline Monitoring Report. Impact noise monitoring was conducted once per week in the form of 30-minutes measurements L_{eq} , L_{10} and L_{90} levels recorded at each monitoring station between 0700 and 1900 hours on normal weekdays.
- 3.1.3 In accordance with the Updated EM&A Manual, additional weekly impact monitoring should be carried out during respective restricted hours period (1900 0700 hours) if the construction works were conducted at evening and night time. Additional weekly noise monitoring was conducted once per week in the form of 5-minutes measurements L_{eq} , L_{10} and L_{90} levels recorded at each monitoring station between 1900 and 0700 hours as well as public holidays and Sundays.
- 3.2 Noise Monitoring Parameters, Time, Frequency
- 3.2.1 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 1900-0700 hours on all days as well as public holidays and Sundays.
- 3.2.2 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. The monitoring schedule is provided in **Appendix C**.

Monitoring Station	Time	Duration	Parameters
	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
M1/ N_S1, M2/ N_S2, M3/ N_S3	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

Table 3.1 Noise Monitoring Parameters, Time, Frequency and Duration

3.3 Noise Monitoring Locations

3.3.1 Three noise monitoring locations for impact monitoring and additional impact monitoring at the nearby sensitive receivers are shown in Figure 3.1.

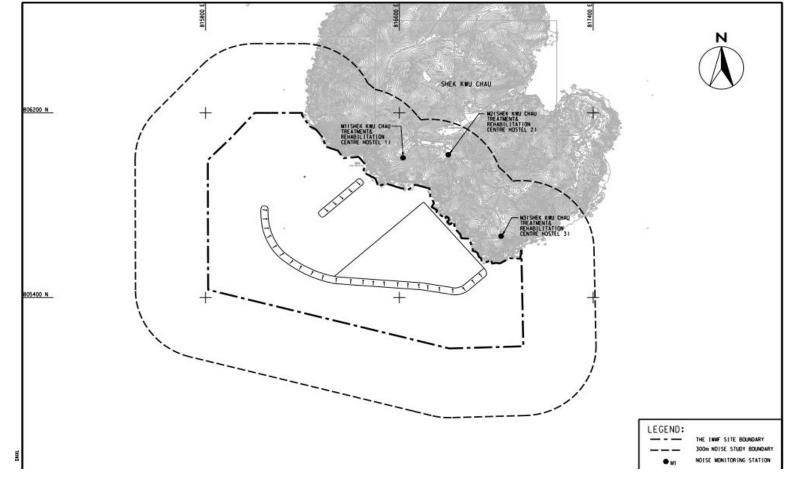


Figure 3.1 Noise monitoring locations at SKC

- 3.3.2 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.
- 3.3.3 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. The noise monitoring stations are summarized in **Table 3.2** below.

Station	NSR ID in	Noise Monitoring Location	Type of sensitive	Measurement
Station	EIA Report		receiver(s)	Туре
M1	N_S1	Shek Kwu Chau Treatment &	Residential	Façade
1011	N_51	Rehabilitation Centre Hostel 1	Residential	Taçauc
M2	N S2	Shek Kwu Chau Treatment &	Residential Facade	Facade
IVIZ		Rehabilitation Centre Hostel 2	Residential	raçaue
M3	N_S3	Shek Kwu Chau Treatment &	Residential	Facada
1013	11_00	Rehabilitation Centre Hostel 3	Residential	Façade

Table 3.2 Noise Monitoring Location

- 3.4 Impact Monitoring Methodology
- 3.4.1 At each designated monitoring location, measurements of six 5-minute A-weighted equivalent sound pressure level [" $L_{eq 5min}$ "] was carried out between 0700 and 1900 hours for daytime measurements on a normal weekdays (excluding Sunday or general holiday). The measured six impact noise levels at each monitoring location shall then be averaged in logarithmic scale and expressed in terms of the 30-minute A-weighted equivalent continuous sound pressure level ($L_{eq 30min}$) for the time period between 0700 and 1900 hours on normal weekdays.
- 3.4.2 At each designated monitoring location, measurements of three 5-minute A-weighted equivalent sound pressure level ["L_{eq 5min}"] was carried out between 1900 and 0700 hours for evening time and night time measurements.
- 3.4.3 The monitoring procedures are as follows:
 - The microphone head of the sound level meter was normally positioned 1 m exterior of the noise sensitive façade and lowered sufficiently so that the building's external wall acts as a reflecting surface.
 - If there is a problem with the access to the normal monitoring position, an alternative may be chosen and appropriate correction would be applied according to acoustic principle when necessary. For reference, +3 dB(A) correction would be made for free-field measurements.
 - The battery condition was checked to ensure good functioning of the meter.
 - Parameters such as frequency weighting, the time weighting and the measurement time were set as follows:
 - Frequency weight: A
 - Time weighting: Fast
 - Measurement time: 5 minutes

- Prior to and after noise measurement, the meter was calibrated using the calibrator for 94.0 dB at 1000Hz. If the difference in the calibration level before and after measurement is more than 1.0 dB, the measurement was considered invalid and repeat of noise measurement was required after re-calibration or repair of the equipment.
- Noise monitoring was carried out for 30 minutes by sound level meter. At the end of the monitoring period, noise levels in terms of L_{eq}, L₁₀ and L₉₀ were recorded. In addition, site conditions and noise sources were recorded when the equipment was checked and inspected.
- All the monitoring data within the sound level meter system was downloaded through the computer software.
- 3.5 Monitoring Equipment
- 3.5.1 Integrated sound level meter was used for the noise monitoring. The meter shall comply with the International Electrotechnical Commission Publications 651: 1979 (Type 1) and 804: 1985 (Type 1) specifications.
- 3.5.2 Equipment used in the impact noise monitoring programme is summarized in Table3.3 below. Calibration certificates for the noise monitoring equipment are attached in Appendix E.

Table 3.3 Impact Noise Monitoring Ec

Equipment	Brand and Model
Sound Level Meter	SVANTEK 971
Sound Calibrator	RION NC-75

- 3.6 Maintenance and Calibration
- 3.6.1 The maintenance and calibration procedures were as follows:
 - The microphone head of the sound level meter and calibrator were cleaned with a soft cloth at quarterly intervals.
 - The sound level meter and calibrator were checked and calibrated at yearly intervals
 - Immediately prior to and following each noise measurement, the accuracy of the sound level meter shall be checked using an acoustic calibrator generating a known sound pressure level at a known frequency. Measurements may be accepted as valid only if the calibration levels from before and after the noise measurement agree to within 1.0dB.
- 3.7 Action and Limit Levels
- 3.7.1 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 3.4**.

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

Table 3.4 Action and Limit Levels for Noise per Updated EM&A Manual

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.

- 3.7.2 If exceedances were found during noise monitoring, actions in accordance with the Event and Action Plan shall be carried out according to **Appendix F**.
- 3.8 Monitoring Results and Observations
- 3.8.1 Impact monitoring for noise impact for daytime was carried out on 03, 11, 12, 17 and 24 June 2024. Impact monitoring for noise impact for evening time and night time was carried out on 03&04, 11&12, 12&13, 17&18 and 24&25 June 2024. The impact noise levels at Noise Monitoring Stations at SKC (i.e. M1/N_S1 to M3/N_S3) are summarized in **Table 3.6**, **Table 3.7** and **Table 3.8** respectively. Details of noise monitoring results are presented in **Appendix G**.
- 3.8.2 Major construction activity, major noise source and extreme weather which might affect the results were recorded during the impact monitoring.
- 3.8.3 According to our field observations, the major noise source identified at the noise monitoring station in the reporting month are summarised in **Table 3.5**. Sound from the intermittent piling work was the noticeable noise source for monitoring stations M1, M2 and M3. Air conditioning units were also observed nearby monitoring stations M3.

Monitoring Station	Major Noise Source
M1	NA
M2	NA
M3	Operation of nearby Air Quality Monitoring Station Construction works of Signal Tower

Table 3.5 Summary of Field Observation

3.8.4 No data from impact monitoring during daytime has exceeded the stipulated limit level at 75 dB(A).

Location	Measured Noise Level in dB(A)								
	Range of Leq 30min	Range of L10 30min	Range of L90 30min						
M1	60.8 - 67.1	61.9 – 70.9	55.1 - 60.2						
M2	57.3 - 63.9	59.2 - 64.5	54.3 - 54.6						
M3	52.3 - 69.4	54.4 - 69.9	50.9 - 62.7						

Table 3.6 Summary of Impact Noise Monitoring Results during Day Time (0700 – 1900 hours)

- 3.8.5 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).
- 3.8.6 During the noise monitoring event, frontline staff of ET had 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.
- 3.8.7 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 was 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.

Location	Measured Noise Level in dB(A)								
	Range of Leq 5min	Range of L10 5min	Range of L90 5min						
M1	51.0 - 58.3	52.5 - 59.2	49.6 - 56.7						
M2	51.7 - 53.8	52.1 - 54.9	51.2 - 52.2						
M3	51.3 - 65.2	51.5 - 67.8	50.9 - 62.3						

Table 3.7 Summary of Additional Impact Noise Monitoring Results during Evening Time (1900 – 2300 hours)

Table 3.8 Summary of Additional Impact Noise Monitoring Results during Night Tim	ne
(2300 – 0700 hours)	

Location	Measured Noise Level in dB(A)								
	Range of Leq 5min	Range of L10 5min	n Range of L90 5min						
M1	47.9 - 62.0	49.1 - 65.1	46.4 - 56.4						
M2	49.2 - 59.0	49.5 - 61.6	48.9 - 53.7						
M3	51.9 - 65.5	53.1 - 66.6	50.9 - 64.4						

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, 5,045.3m³ inert C&D materials was generated on site in the reporting month. No metal was generated and collected by registered recycling collector. No paper was collected by the registered recycling collector. No plastic waste was collected by registered recycling collector. No chemical waste was collected by the licensed chemical waste collector. 494.0m³ of other types of wastes (e.g. general refuse) was disposed of at designated landfill. 512.0m³ of fill rock, fill sand or public fill 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 month are summarised in **Table 4.1**. Details of cumulative waste management data are presented as a waste flow table in **Appendix H**.
- 4.5 The Contractor is advised to sort and store any solid and liquid waste on-site properly prior to disposal.

-	Actual Quantities of Inert C&D Materials Generated Monthly								Actual Quantities of C&D Wastes Generated Monthly					
	Total	Hard Rock and Large	Reused in	Reused in	Disposed	Imported Fill			Paper /	Plastics			Others,	
Reporting Month	Quantity Generated	Broken Concrete (see Note 1)	the Contract	other Projects	as Public Fill	s Public Public	Rock	Metals	-	(see Note 2)	Chemical Waste		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 ,000kg)	(in ,000kg)	(in ,000kg)	(in ,000kg)	(in ,000L)	(in ,000m ³)
June 2024	5.0453	0	0	0	5.0453	0	0	0.5120	0	0	0	0	0	0.4940

Table 4.1 Quantities of Waste Generated from the Project during June 2024

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 $6.5m^3$ by volume.

(4) Use the conversion factor: rock density = 2 T/m^3 .

5. CORAL

5.1 Coral Monitoring Requirements

- 5.1.1 To monitor the health condition of corals during different phases, corals located within areas likely to be affected by the Project, corals located at control sites (areas unlikely to be affected by the Project), the trans-located coral colonies as well as the tagged natural coral colonies at the recipient site were chosen, in order to identify any adverse indirect impact from the marine works. The size, percentage cover and health condition of corals (i.e. any sign of abnormal appearance, such as layer of mucus, bleaching, partial mortality etc.) at representative transects should be recorded during each monitoring.
- 5.2 Coral Monitoring Parameters, Time, Frequency
- 5.2.1 Rapid Ecological Assessment (REA) survey was conducted on 26 June 2018 at the suggested control site and indirect impact site within two weeks before commencement of the construction work which was 29 June 2018. 10 selected hard coral colonies with the similar species were tagged at both control and indirect impact sites. Following coral translocation in the recipient site R3, 16 coral colonies attached to rocks less than 50 cm in diameter were translocated and tagged, as well as 10 selected natural coral colonies, at the recipient site. One additional REA survey was conducted in December 2018 to further assess the seabed condition at Indirect Impact Site after Typhoon Mangkhut.
- 5.2.2 Tagged coral colonies at the suggested control site and indirect impact site are being monitored weekly for the first month and followed by monthly monitoring for two months. Quarterly monitoring will be carried out after the first three-month of monthly monitoring until the completion of marine works and bi-annual monitoring will be carried out after the completion of marine works. The selected Control Site is located at Yuen Kong Chau of Soko Islands about 7 km away from the project area. Tagged coral colonies at the proposed recipient site are being monitored quarterly for one year. The selected recipient site R3 is located at the opposite side of the Project area at about 2 km away. The detailed survey of the Control Site and Impact Site were conducted before the commencement of the Construction Phase.
- 5.2.3 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 tagged coral colony. The general environmental conditions including weather, sea, and tidal conditions of impact site, control site and recipient site were monitored.
- 5.2.4 **Table 5.1** summarizes the monitoring locations, time and frequency of the tagged coral colonies monitoring. The monitoring schedule is provided in **Appendix C**.

Monitoring Location	Monitoring Month/Year	Frequency	No. of Monitoring Survey	
	1 st Month	Weekly Survey	4	
	2 nd to 3 rd Months	Monthly Survey	2	
	4 th Month (postponed		al Colonies in Indirect	
	to 5 th month due to	Impact Site after Typhoon Mangkhut		
	diver accident in Shek			
	Kwu Chau in October			
	2018)			
	4 th Month (postponed	Re-tagging of Cora	al Colonies in Control	
	to 5 th month due to	Site after Typhoon M	Aangkhut	
	diver accident in Shek			
	Kwu Chau in October			
	2018 and further			
	postpone to 6 th month			
	due to adverse			
	weather)			
	5 th Month (postponed		1	
	to 6^{th} month due to	Monthly Survey		
	diver accident in Shek			
	Kwu Chau and further			
10 selected hard coral	postponed to 7 th			
colonies at control site / indirect impact site	month due to delay of			
muneet impact site	re-tagging activities at			
	both Indirect Impact			
	Site and Control Site) 7 th to 72 nd Months	Outortonly, Summer	20	
	(postponed to 8 th to	Quarterly Survey	20	
	73^{rd} month due to			
	diver accident in Shek			
	Kwu Chau in October			
	2018)			
	73 rd to 76 th Months	Bi-annually	1	
	(The marine	Survey	1	
	construction work is	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		
	anticipated to be			
	completed by June			
	2024, the frequency of			
	monitoring will be			
	changed to bi-annual			
	with reference to the			
	Updated EM&A			
	Mannual (Rev.E))			
16 translocated hard				
coral colonies and 10				
selected natural hard	1 st Year	Quarterly Survey	4	
coral colonies at				
recipient site R3				

Table 5.1 Tagged Coral	Monitoring Locations	Time and Frequency
Table 3.1 Taggeu Corai	Monitoring Locations	, interance requency

5.3 Coral Monitoring Locations

5.3.1 Location of the ten tagged coral colonies at each of the proposed indirect impact site (re-tagging after typhoon Mangkhut), control site (baseline) and recipient site R3 (translocation) are shown in **Figure 5.1**, **Figure 5.2** and **Figure 5.3** respectively:

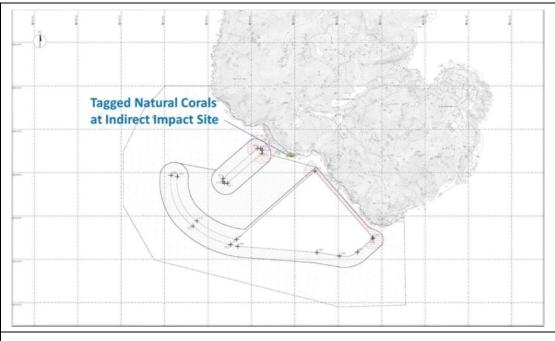


Figure 5.1 Tagged Natural Corals at Indirect Impact Site Near SKC for re-tagging after typhoon Mangkhut



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



Figure 5.3 Tagged Translocation Corals at Recipient Site R3 near SKC

5.3.2 The GPS coordinates of the tagged coral colonies, retagged coral colonies and recipient site were shown in **Table 5.2**, **Table 5.3** and **Table 5.4** respectively.

Coral #	GPS Co	ordinates
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"

Table 5.2 Tagged Natural Corals during Baseline and Re-tagged Natural Corals afterTyphoon Manghkut at Control Site near Yuen Long Chau

Notes:

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

Table 5.3 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 5.4 GPS Coordinates of Recipient Site R3

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

5.4 Impact Monitoring Methodology

- 5.4.1 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.
- 5.5 Action and Limit Levels
- 5.5.1 Monitoring result was reviewed and compared against the below Action Level and Limit Level (AL/LL) as set with the below **Table 5.5** and **Table 5.6**.

Parameter	Action Level	Limit Level
Mortality	a 15% increase in the percentage of partial mortality on the corals occurs at more than 20% of the tagged indirect impact site	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

Table 5.5 Action and Limit Levels for Construction Phase Coral Monitoring

Table 5.6 Action and Limit Levels for Post-Translocation Coral Monitoring

Parameter	Action Level	Limit Level
Mortality	Monitoring a 15% increase in the percentage of partial mortality on the corals occurs at more than 20% of the translocated coral colonies	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,

- 5.5.2 If exceedance was found during coral monitoring. The actions in accordance with the Event and Action Plan should be carried out according to **Appendix I.**
- 5.6 Monitoring Results and Observations
- 5.6.1 The 22nd quarterly coral monitoring during construction phase at both Indirect Impact Site and Control Site was conducted on 28 June 2024 and the weather condition was summarized in **Table 5.7**.

Table 5.7 Weather Condition for the 22nd Quarterly Coral Monitoring during Construction Phase at both Indirect Impact Site and Control Site

Date	Condition	Average Underwater Visibility
28 June 2024	Southwest wind force 3 to 4Sunny	- Less than 20 cm

5.6.2 Ten (10) hard coral colonies were monitored at each Control site and Indirect Impact Site as suggested in the Construction Phase Monitoring Plan. The general health conditions (size, mortality, bleaching and sediment) were recorded and summarized in **Table 5.8** and **Table 5.9**. Photos of each coral colonies were taken during the monitoring activities shown in **Photo Plate 5.1** and **Photo Plate 5.2**.

Table 5.8 Sizes, Condition, Mortality, Bleaching and Sediment of 10 Natural CoralColonies at Control Site during 22nd Quarterly Coral Monitoring

Tag #	Species	Size (cm) – Max.	Condition	Mortality (%)		Bleaching (%)		Sediment (%)	
		Diameter		Baseline	28/06	Baseline	28/06	Baseline	28/06
1	Goniopora stutchburyi	25	Good	0	0	0	0	0	0
2R	Goniopora stutchburyi	10	Good	0	0	0	0	0	0
3	Psammocora superficialis	18	Good	0	0	0	0	0	0
4	Turbinaria peltata	13	Good	0	0	0	0	0	0
5R	Goniopora stutchburyi	18	Good	0	0	0	0	0	0
6	Cyphastrea serailia	43	Good	0	0	0	0	0	0
7R	<i>Coscinaraea</i> sp.	15	Good	0	0	0	0	0	0
8	Goniopora stutchburyi	21	Good	0	0	0	0	0	0
9	Goniopora stutchburyi	11	Good	0	0	0	0	0	0
10R	Goniopora stutchburyi	20	Good	0	0	0	0	0	0

Notes:

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

Table 5.9 Sizes, Condition, Mortality, Bleaching and Sediment of 10 Natural Coral
Colonies at Indirect Impact Site during 22 nd Quarterly Coral Monitoring

Tag #	Species	Size (cm) – Max.	Condition	Mortality (%)		Bleaching (%)		Sediment (%)	
		Diameter		Baseline	28/06	Baseline	28/06	Baseline	28/06
11R	Cyphastrea serailia	48	Good	0	0	0	0	0	0
12R	Favites chinensis	27	Good	0	0	0	0	0	0
13R	Turbinaria peltata	21	Good	0	0	0	0	0	0
14R	Favites chinensis	8	Good	0	0	0	0	0	0
15R	Goniopora stutchburyi	11	Good	0	0	0	0	0	0
16R	Psammocora superficialis	27	Good	0	0	0	0	0	0
17R	Favites chinensis	15	Good	0	0	0	0	0	0
18R	Psammocora superficialis	39	Good	0	0	0	0	0	0
19R	Psammocora superficialis	42	Good	0	0	0	0	0	0
20R	Psammocora superficialis	29	Good	0	0	0	0	0	0

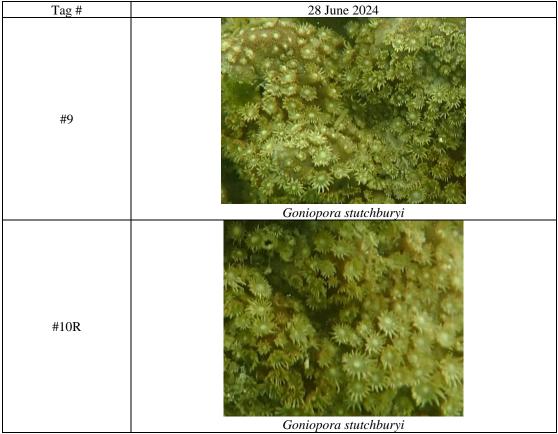
Notes:

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

Tag #	28 June 2024
#1	Goniopora stutchburyi
#2R	Goniopora stutchburyi
#3	Psammocora superficialis
#4	Turbinaria peltata

Photo Plate 5.1 Ten (10) Monitored Corals at Control Site

Tag #	28 June 2024
#5R	Goniopora stutchburyi
#6	Cyphastrea serailia
#7R	<i>Coscinaraea</i> sp.
#8	Goniopora stutchburyi



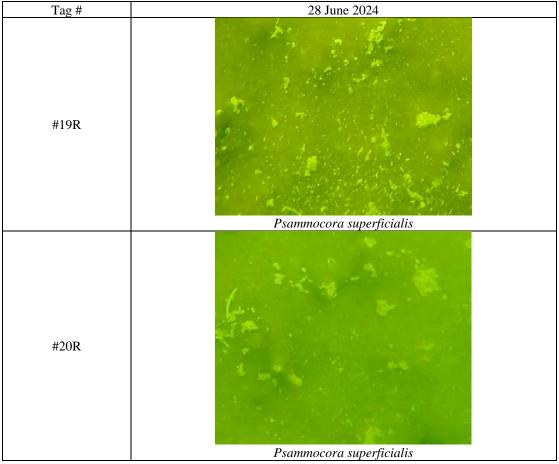
Notes:

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

Tag #	28 June 2024
#11R	Cyphastrea serailia
#12R	Favites chinensis
#13R	Turbinaria peltata
#14R	Favites chinensis

Photo Plate 5.2 Ten (10) Monitored Corals at Indirect Impact Site

Tag #	28 June 2024
#15R	Goniopora stutchburyi
#16R	Psammocora superficialis
#17R	Favites chinensis
#18R	Psammocora superficialis



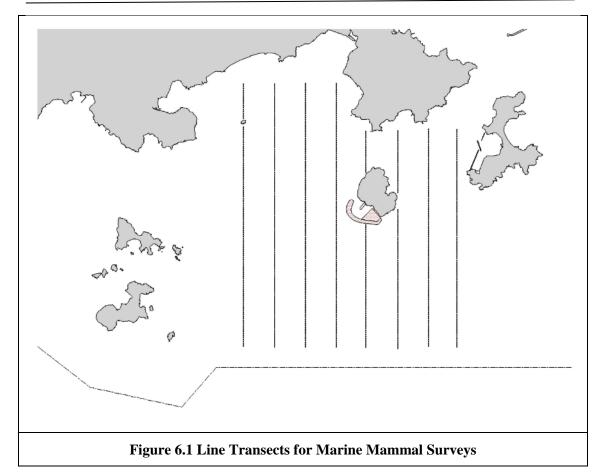
Notes:

- i. The re-tagged corals were marked as ##**R**.
- 5.6.3 The coral re-tagging activities were carried out in the control site and indirect impact area on 23 November and 3 December 2018. Four and ten hard coral colonies were successfully re-tagged at both control and indirect impact sites respectively. Each re-tagged and remained coral colonies were photographed.
- 5.6.4 All tagged and re-tagged coral colonies showed good health condition during the 22nd Quarterly Construction Phase Monitoring. There was no increased level of mortality, bleaching and sediment when compared with the baseline results.
- 5.6.5 No sediment, bleaching or increased mortality in the general condition of coral colonies were observed during the tenth construction phase 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. Photos of each tagged corals colonies were taken and shown in **Photo Plates 5.1** and **Photo Plate 5.2**.

6. MARINE MAMMAL

6.1 Monitoring Requirements

- 6.1.1 The marine mammal monitoring programme would focus on Finless Porpoise, as the study area near Shek Kwu Chau has been identified as a hotspot for this species, while the Chinese White Dolphins rarely occurred there in the past.
- 6.1.2 The monitoring will verify the predicted impacts on marine mammals and examine whether the mitigation measures recommended in the EIA report have been effectively implemented to protect marine mammals from negative impacts from construction activities.
- 6.1.3 The Vessel-based Line-transect Survey, the Passive Acoustic Monitoring and the Land-based Theodolite Tracking will be conducted to provide systematic, quantitative measurements of occurrence, encounter rate, habitat use, movement and behavioural patterns of marine mammals within or near the Project Area during construction and operational phases.
- 6.1.4 The mammal monitoring works during construction consist of the following three survey methods:
 - Vessel-based Line-transect Survey to monitor the occurrence of Finless Porpoises (and Chinese White Dolphins) in the study area during construction works, by comparing with the findings of the pre-construction marine mammal monitoring;
 - Passive Acoustic Monitoring to study the usage of the Project Area and two control sites in South Lantau Waters by Finless Porpoise during construction works, in reference with the baseline findings of the pre-construction marine mammal monitoring; and
 - Land-based Theodolite Tracking to study the movement and behavioral pattern of Finless Porpoise within and around the Project Area during construction works.
- 6.1.5 The marine mammal observation works of Marine Mammal Exclusion Zone (MMEZ) and Marine Mammal Watching as two of the specific mitigation measures recommended in the approved EIA report shall be fully and properly implemented for the Project to minimize disturbance on Finless Porpoise during construction and operational phases.
- 6.2 Survey Methods
- 6.2.1 Vessel-based Line-transect Survey
- 6.2.1.1 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.
- 6.2.1.2 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:



6.2.1.3 The surveys should cover all 4 seasons in order to take natural fluctuation and seasonal variations into account for data analysis of distribution, encounter rate, density and habitat use of both porpoises and dolphins (if any). In comparison to the baseline monitoring results, results from the analysed construction phase monitoring data would allow the detection of any changes of their usage of habitat, in response to the scheduled construction works. The monitoring surveys shall be conducted throughout the construction phase involving marine construction work with the frequency shown in **Table 6.1** below:

Season	Months	Frequency
Peak Season	December, January, February,	Twice per month
	March, April & May	
Non-peak Season	June, July, August, September,	Once per month
	October & November	

6.2.1.4 For each vessel survey, a 15-m inboard vessel with an open upper deck (about 4.5 m above water surface) would be used to make observations from the flying bridge area. Two experienced marine mammal observers (a data recorder and a primary observer) would make up the on-effort survey team, and the survey vessel would transit different transect lines at a constant speed of 13-15 km per hour. The data recorder shall search with unaided eyes and fill out the datasheets, while the primary observer shall search for dolphins and porpoises continuously through 7 x 50 marine binoculars. Both observers shall search the sea ahead of the vessel, between 270° and 90° (in relation to the bow, which is defined as 0°). Two additional experienced observers shall be available on the boat to work in shift (i.e. rotate every 30 minutes) in order to minimize fatigue of the survey team members. All observers shall be

experienced in small cetacean survey techniques and identifying local cetacean species with extensive training by marine mammal specialist of the ET.

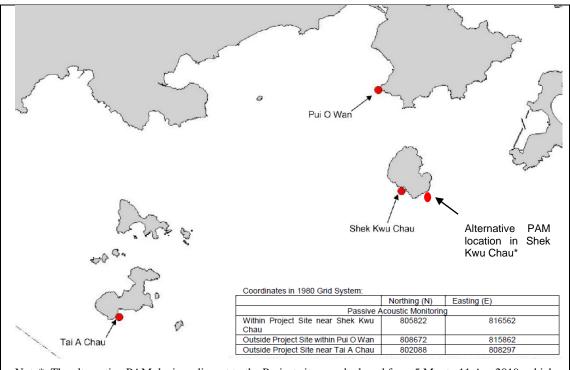
- 6.2.1.5 During on-effort survey periods, the survey team shall record effort data including time, position (latitude and longitude), weather conditions (Beaufort sea state and visibility), and distance travelled in each series (a continuous period of search effort) with the assistance of a handheld GPS (Garmin eTrex Legend). Data including time, position and vessel speed would also be automatically and continuously logged by handheld GPS throughout the entire survey for subsequent review.
- 6.2.1.6 When porpoises or dolphins are sighted, the survey team shall end the survey effort, and immediately record the initial sighting distance and angle of the porpoise or dolphin group from the survey vessel, as well as the sighting time and position. Then the research vessel shall be diverted from its course to approach the animals for species identification, group size estimation, assessment of group composition, behavioural observations, and collection of identification photos (feasible only for Chinese White Dolphin). The perpendicular distance (PSD) of the porpoise or dolphin group to the transect line would then be calculated from the initial sighting distance and angle, which shall be used in the line-transect analysis for density and abundance estimation.
- 6.2.1.7 The line-transect survey data shall be integrated with a Geographic Information System (GIS) to visualize and interpret different spatial and temporal patterns of porpoise and dolphin distribution using their sighting positions collected from vessel surveys. Location data of porpoise and dolphin groups would be plotted on map layers of Hong Kong using a desktop GIS (e.g. ArcView© 3.1) to examine their distribution patterns in details. The encounter rate could be used as an indicator to determine areas or time periods of importance to porpoises within the study area. For encounter rate analysis of finless porpoises, only survey data collected under Beaufort 2 or below condition would be used for encounter rate analysis.
- 6.2.1.8 To take into account of the variations of survey effort across different sections within survey area, the quantitative grid analysis of habitat use would be conducted to examine finless porpoise usage among 1-km² grids within the Southeast Lantau survey area. For the grid analysis, SPSE (sighting density) and DPSE (porpoise density) values would be deduced for evaluation on level of porpoise usage. First, positions of on-effort porpoise sightings from the study period are plotted onto 68 grids (1 km x 1 km each) within the survey area. Sighting density grids and porpoise density grids shall then be normalized with the amount of survey effort conducted within each grid. The total amount of survey effort spent on each grid shall be calculated by examining the survey coverage on each line-transect survey to determine how many times the grid had been surveyed during study period. With the amount of survey effort calculated for each grid, the sighting density and porpoise density of each grid shall be further normalized (i.e. divided by the unit of survey effort).
- 6.2.1.9 The newly-derived unit for sighting density was termed SPSE, representing the number of on-effort sightings per 100 units of survey effort. In addition, the derived unit for actual porpoise density was termed DPSE, representing the number of dolphins/porpoise per 100 units of survey effort. Among the 1-km² grids that were partially covered by land, the percentage of sea area was calculated using GIS tools, and their SPSE and DPSE values were adjusted accordingly. The following formulae shall be used to estimate SPSE and DPSE in each 1-km² grid within the study area:

$$SPSE = ((S / E) x 100) / SA\%$$
$$DPSE = ((D / E) x 100) / SA\%$$

where S = total number of on-effort sightings D = total number of dolphins/porpoises from on-effort sightings E = total number of units of survey effortSA% = percentage of sea area

6.2.2 Passive Acoustic Monitoring (PAM)

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.



Note*: The alternative PAM device adjacent to the Project site was deployed from 5 Mar to 11 Apr 2019, which contained a full 37 days acoustic monitoring data set. After the confirmation of loss of the original PAM within the Project site, this data set was proposed to replace that of the original one, as consulted with AFCD accordingly.

Figure 6.2 Locations of Passive Acoustic Monitoring

6.2.3 These three detectors will be deployed on-site to carry out 24-hours monitoring for a period listed as **Table 6.2** below during the construction phase.

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

- 6.2.3.1 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.
- 6.2.3.2 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.
- 6.2.4 Land-based Theodolite Tracking
- 6.2.4.1 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.

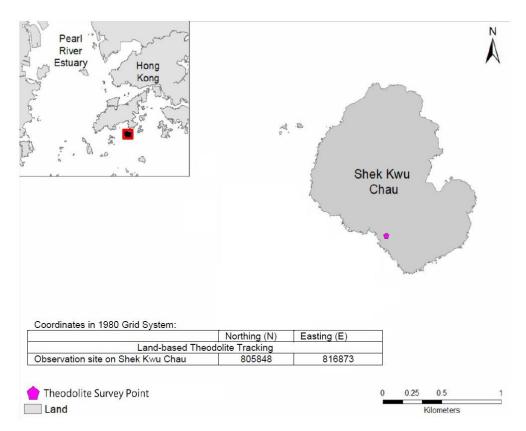


Figure 6.3 Locations of Land-based Theodolite Tracking

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 6.3** below, preferably at the initial stage of the construction period (i.e. December 2018 to May 2019).

	Table 6.3 I	Land-based	Theodolite	Tracking	Survey Period
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Season	Months	Survey Period
Peak Season	December, January, February,	30 days during the peak months
	March, April or May	of porpoise occurrence in South
		Lantau waters

- 6.2.4.2 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 was 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.
- 6.3 Specific Mitigation Measures
- 6.3.1 Monitored exclusion zones
- 6.3.1.1 A MMEZ with 250 m distance from silt curtain shall be established during the above situation. If 3 or more construction vessels are required with MMO's duty and operating in close proximity, for the purpose of avoiding accidental entrance to the works area by Marine Mammal, a cluster MMEZ plan will be implemented to form a MMEZ with 250 m distance from the boundary of a work area as indicated in Figure 1 for reference. A team of MMO (i.e. at least two MMOs per day/night shift teams) would be arranged at the out-lying construction vessels to form the cluster MMEZ. The MMEZ serves as a monitoring approach to provide appropriate and immediate actions once finless porpoise or Chinese White Dolphin is sighted within the MMEZ. All MMEZ will be monitored by competent Marine Mammal Observers (MMOs) to be provided by the Environmental Team for the IWMF and trained by the Marine Mammal Monitoring Specialist of the ET who is independent from KSZHJV. The marine mammal observer(s) shall be independent of the construction contractor and shall form part of the Environmental Team and have the power to call-off construction activities.
- 6.3.1.2 According to the Condition 2.25 of the FEP, MMEZ should be implemented 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. Also, marine construction works expected to produce underwater acoustic disturbance as per Condition 2.27 of the FEP, especially within December and May, would require the implementation of MMEZ, which currently all those specific construction activities have been replaced by less acoustically disturbing construction methods such as Deep Cement Mixing (DCM) and Precast Concrete

Blocks Installation as discussed in Section 5.3 of the Detailed Monitoring Programme on Finless Porpoise, however, MMEZ would also be implemented for precautionary purpose for DCM works.

6.3.1.3 A MMEZ with 250 m distance from the boundary of a work area shall be established during the above situation. A typical MMEZ is indicated in **Figure 6.4** for reference. The MMEZ serves as a monitoring approach to provide appropriate and immediate actions once finless porpoise or Chinese White Dolphin is sighted within the MMEZ. All MMEZ will be monitored by competent Marine Mammal Observers (MMOs) to be provided by the Environmental Team (ET) for the IWMF and trained by the Marine Mammal Monitoring Specialist of the ET who is independent from KSZHJV.

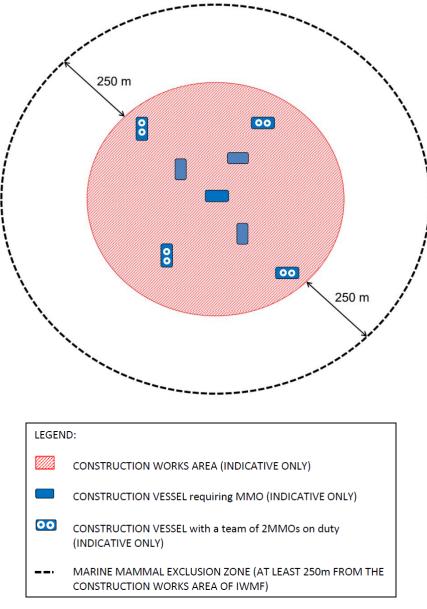


Figure 6.4 Illustration of Typical MMEZ

- 6.3.1.4 Prior to the commencement of construction activity, our MMOs shall ensure the boundary of a marine work area and setting up of the MMEZ for the work area and get access to the monitoring location on a barge or a lookout point where there is no obstructed views for monitoring the MMEZ during the construction activity. The MMEZ shall be scanned thoroughly by a MMO for any presence of marine mammal e.g. finless porpoise for an initial period of 30 minutes. Construction activity shall only be commenced after the MMO has confirmed that the MMEZ is clear of the marine mammal for the initial period of 30 minutes. The MMO shall then inform the construction superintendent through mobile phone or handheld transceivers to certify the commencement of construction activity. The MMEZ monitoring shall be carried on throughout the period for all active construction activities requiring implementation of MMEZ.
- 6.3.1.5 When any mammal marine, e.g. Finless Porpoise, is detected by the MMO within the MMEZ during construction, the MMO shall inform the construction superintendent immediately through mobile phone or handheld transceivers to cease construction activity within the MMEZ. Construction activity shall not be recommenced until the MMO confirms that the MMEZ is continuously clear of marine mammal for a period of 30 minutes. The MMO shall then inform the construction superintendent through mobile phone or handheld transceivers to certify the re-commencement of construction activity.
- 6.3.1.6 As there could be a number of Contractors working at the same time within a work area for the IWMF project, a full contact list of MMEZ monitoring team members of the ET and the relevant responsible construction superintendents of the Contractor at the site shall be prepared, updated regularly and circulated to all parties involved in the MMEZ monitoring. With a full contact list, our MMOs shall be able to find out the contacts of corresponding persons in case of marine mammal sighting within and near the MMEZ or emergent occurrence of any unpredictable impact on marine mammal.
- 6.3.1.7 If a marine mammal is still observed in close vicinity but outside the MMEZ, the MMO shall inform the construction superintendent about the presence of marine mammal. The MMO shall remain in position and closely observe the movement of the marine mammal as well as searching for the appearance of any other marine mammal within the MMEZ. No matter the marine mammal is observed within or in close vicinity but outside the MMEZ, the construction superintendent or relevant persons shall inform all vessel captains involved in construction activities around the MMEZ to pay special attention of the presence of the marine mammal in order to reduce chance of collision with them. In case of injury or live-stranded marine mammal being found within the MMEZ, the marine mammal observer shall immediately inform the construction superintendent to suspend construction activities within the works area and contact AFCD through "1823" marine mammal stranding hotline.
- 6.3.2 Marine mammal watching plan
- 6.3.2.1 Upon the completion of silt curtain installation/re-installation/relocation, the marine works would be conducted within an enclosed environment within the silt curtain. Subsequently, Visual Inspection of the Waters Surrounded by Silt Curtains (Section 2.1, MMWP) and Regular Inspection of Deployed Silt Curtain (Section 2.2, MMWP) inspection under Marine Mammal Watching Plan would be implemented (where applicable, Marine Mammal Exclusion Zone shall be conducted at the meantime).

- 6.3.2.2 Before commencement of dredging/sand blanket laying work at each designated area, a trained MMO shall check whether position frame silt curtains are ready, well prepared and operated without any obvious damage. Also, the MMO shall confirm the presence of the relevant frontline staff of the main contractor or its sub-contractors and engineers on board to ensure the effective communication, coordination and implementation of the response plan in relation to any incidents involving marine mammals within the waters surrounded by the position frame type silt curtains and the work areas. Also, there are lookout points at an elevated level on each barge, clear and safe access at the edges of the derrick lighter/ flag-top barge for inspection during dredging/sand blanket laying works, provision of sufficient lighting is required if working at night.
- 6.3.2.3 During the operation, the inspection will be conducted daily. The MMO will walk along the edge of derrick lighter (DL) and flag-top barge (FB) along the position frame silt curtain or proper location without obstacles where appropriate to inspect the position frame silt curtains are maintained in the correct positions with no obvious defects / entanglement and there is no observable muddy water passing through the position frame silt curtain system. Any floating refuse trapped by the silt curtain shall be removed as part of the regular inspection. For night inspection, spotlight will be used to provide sufficient brightness to assist the inspection in dark condition.
- For the re-deployment of the localized silt curtains (frame-type, cage-type or 6.3.2.4 enclosed floating-type silt curtains), MMO will conduct visual inspection to confirm that there is no presence of marine mammal within the localized silt curtains (frametype, cage-type or enclosed floating-type silt curtains). Visual inspection will be conducted every hour by MMO for confirming that there is no marine mammal observed in the surrounding area of the deployed silt curtain during re-deployment of localized silt curtains (frame-type, cage-type or enclosed floating-type silt curtains). The duration will be subject to various conditions, e.g. weather or angle of observation. The works can only commence after confirming that the surrounding waters of the localized silt curtains do not contain any marine mammal. Thereafter, frontline staff, i.e. foremen, site agent, superintendents and engineers will assist our MMO in implementing the plan from the active work fronts within the waters surrounded by the silt curtains throughout the work period. The MMO will conduct regular check to observe the presence of any marine mammal around the localized silt curtain or being trapped by the localized silt curtain daily. The MMOs will also check if the localized silt curtains are in correct positions.
- 6.3.2.5 The MMO shall fill up our Marine Mammal Sighting Record Sheet. After inspection, those records should be kept properly and submitted to the project team. In case there is any marine mammal being found, the MMO should carry out the response actions and communicate with relevant parties to stop and then resume work after the discovered marine mammal leaves. After lifting up and mobilization of silt curtain, the MMO will repeat the procedures of regular and visual inspection until the end of the construction works.
- 6.3.2.6 Each lookout point will have an unobstructed view to waters around the DL and FB. The MMO will move around the DL and FB to establish a clear and unobstructed view as much as they can without compromising the safety concern. When appropriate, the lookout point can be replaced by a proper location if unobstructed view can be assured.

- 6.3.2.7 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.
- 6.4 Results and Observations
- 6.4.1 Vessel-based Line-transect Survey
- 6.4.1.1 As confirmed with Contractor, no marine construction work will be carried out from April to June 2024 tentatively. An updated EM&A arrangement to extend the temporary suspension of water quality and line-transect monitoring from April to June 2024 was submitted to EPD on 27 February 2024. EPD advised no objection on the extension on 18 March 2024. Temporary suspension of line-transect monitoring were extended from 31 March 2024 onward.
- 6.4.2 PAM and Land-based Theodolite Tracking
- 6.4.2.1 30 days of PAM surveys were started on 1 May 2019 and completed in 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 had 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 showed 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).
- 6.4.2.2 For the baseline study, the Detection Positive Minutes (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 with 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 with 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 with 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.
- 6.4.2.3 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 yielded large quantities of data, would allow a more comprehensive assessment of the EIA predictions.
- 6.4.2.4 Theodolite surveys were completed in May 2019. In total, 34 days of theodolite tracking were completed between February and 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.

- 6.4.2.5 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.
- 6.4.2.6 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.
- 6.4.3 Specific Mitigation Measures
- 6.4.3.1 Trainings for the MMO were provided by the ET prior to the monitoring of the Marine Mammal Exclusion Zone (MMEZ) for installation/ re-installation/ relocation process of silt curtains, with a cumulative total of 98 individuals being trained and the training records kept by the ET.

7. WHITE-BELLIED SEA EAGLE

- 7.1 Monitoring Requirement
- 7.1.1 On Shek Kwu Chau Island, a nest of WBSE is located about 60 m above ground within a hillside shrubland habitat, 130 m in-land from shore, about 550 m away from the proposed reclaimed land, with no human access. 3 phases monitoring programme will be comprised of pre-construction phase, construction phase and operation phase.
- 7.1.2 The Pre-Construction WBSE monitoring was started on 30 January 2018 and the location of WBSE nest was confirmed on 21 February 2018 and it is located at the western part of SKC Island (**Figure 7.1**). Two adults and two chicks were also recorded on 5 March 2018 survey till the end of the Pre-construction monitoring on 15 May 2018. Construction Phase monitoring were carried out followed by the commencement of the Construction Phase on 28 June 2018.
- 7.2 WBSE Monitoring Parameters, Time, Frequency
- 7.2.1 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.
- 7.2.2 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 will be continued until chick was seen in the nest. Daily monitoring of 7-day consecutive monitoring will be carried out once any chick is recorded during the monitoring day. The monitoring schedule during the reporting period is provided in **Appendix C**.
- 7.3 Monitoring Location
- 7.3.1 Since there are no suitable land footings along the coast of SKC, only boat surveys were conducted. On Shek Kwu Chau Island, a nest of WBSE is located about 60 m above ground within a hillside shrubland habitat, 130 m in-land from shore, about 550 m away from the proposed reclaimed land, with no human access.
- 7.4 Monitoring Methodology
- 7.4.1 Information to be collected included feeding, perching/roosting, preening, soaring, flying, nesting and territorial guarding and the time spent on each activity. The responses and reactions to any disturbance to the WBSEs were also recorded and examined in conjunction with the construction noise and/or other events in the vicinity. Other disturbances such as weather condition, or invasion by other fauna species were also recorded.
- 7.4.2 Binocular, scope, camera, lens and GPS device used are summarized as **Table 7.1** below:

Equipment	Quantity
Swarovski EL 8.5 x 42 Binocular	1
Swarovski EL Range 8 x 42 Binocular	1
Swarovski ATX 25-60 x 85 Spotting Scope	1
Canon 1Dx Mark II Camera	1
Canon EF300mm F2.8 Lens with Canon 2x Teleconverter	1
Canon PowerShot G7X Camera	1
Garmin GPSMAP 64S	1

Table 7.1 List of Equipment Used during Construction Phase Monitoring

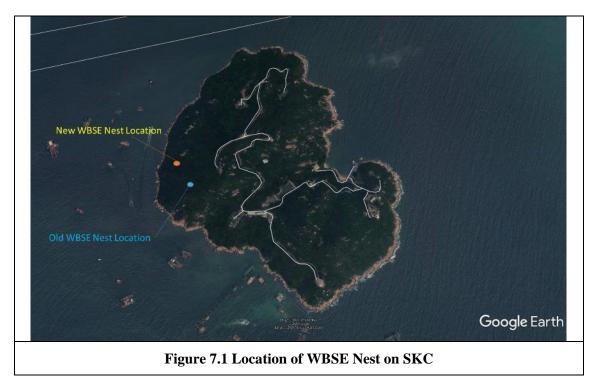
- 7.4.3 If event such as absence of White-bellied Sea Eagle during a whole day of monitoring was found during WBSE monitoring, the actions in accordance with the Event and Action Plan should be carried out according to **Appendix J.**
- 7.5 Results and Observations
- 7.5.1 A once per month monitoring for non-breeding season during the construction phase monitoring was conducted on 28 June 2024 to verify the utilization of the area by WBSE, their responses to construction disturbance, as well as the effectiveness of the proposed mitigation measures. Since there is no landing point long the western part of SKC, boat survey was used for the monitoring survey. The WBSE, monitoring survey was carried out in the morning. The weather condition of monitoring survey was shown in **Table 7.2**.

Table 7.2 Weather Conditions during the WBSE Monitoring

Date	Condition	Temperature (°C)
28 June 2024	Southwest wind force 3 to 4Sunny	29

- 7.5.2 During the whole monitoring survey period, the two adult WBSEs were recorded on 28 June 2024. No incubation activity nor chick was recorded during the monitoring survey on 28 June 2024. No abnormal behaviors of the adults were recorded.
- 7.5.3 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.
- 7.5.4 All construction works during the monitoring period did not show any effect to the WBSE.
- 7.5.5 Any disturbances from anthropogenic activities on the island were not recorded during the monitoring survey. However, there were fishing boats moving close the shore was recorded. Since the nesting tree is about 160m away from the shore and it is not accessible, fishing boat activities didn't show any direct disturbance to the WBSE nest. No invasion of other faun species was recorded as well.
- 7.5.6 There was no sign of using the construction site as a foraging ground.

7.5.7 A once per month construction phase monitoring will be continued in July 2024 during the non-breeding season (between June to November)



7.5.8 Photo record of WBSE from the survey in this reporting month is shown below:



One adult WBSE was recorded staying near the nest on 28 June 2024

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

8.1 The Environmental Complaint Handling Procedure is shown in **Figure 8.1**.

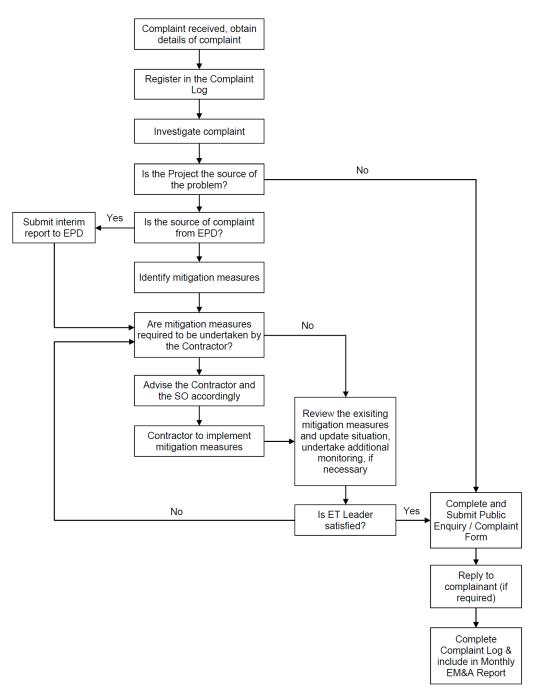


Figure 8.1 Environmental Complaint Handling Procedures

- 8.2 No exceedance of the Action and Limit Levels of the regular WBSE monitoring and noise monitoring was recorded during the reporting period as shown in **Appendix K**.
- 8.3 No environmental complaint was received in the reporting period.
- 8.4 No notification of summons and prosecution was received in the reporting period.
- 8.5 Statistics on complaints, notifications of summons and successful prosecutions are summarized in **Appendix L**.

9. EM&A SITE INSPECTION

9.1 Site inspections were carried out on a weekly basis to monitor the implementation of proper environmental pollution control and mitigation measures under the Contract. In the reporting period, site inspections were carried out on 4, 11, 18 and 25 June 2024 at the site portions listed in **Table 9.1** below.

Table 9.1 Site Inspection Record

Date	Inspected Site Portion	Time
4 June 2024	Portion 1, 1A & 1B (near SKC)	10:00 AM – 11:00 AM
11 June 2024	Portion 1, 1A & 1B (near SKC)	10:10 AM – 11:10 AM
18 June 2024	Portion 1, 1A & 1B (near SKC)	10:10 AM – 11:20 AM
25 June 2024	Portion 1, 1A & 1B (near SKC)	10:00 AM - 11:00 AM

- 9.2 One joint site inspection with IEC was carried out on 18 June 2024.
- 9.3 Environmental deficiencies were observed during weekly site inspection. Key observations during the site inspections of the reporting period are summarized in **Table 9.2**.

Table 9.2 Site Observations

Date	Environmental Observations	Follow-up Status
4 June 2024 (Site inspection)	 <u>Observation(s) and Recommendation(s)</u> 1. NRMM labels should be displayed on vehicle "FT01" and "FT02". 	1. NRMM labels had been displayed on vehicle "FT01" and "FT02".
11 June 2024 (Site inspection)	 <u>Observation(s) and Recommendation(s)</u> 1. Muddy water runoff to sea was observed. Effective mitigation measures should be implemented to prevent surface runoff. 	1. Muddy water runoff to sea had been immediately prohibited and the mitigation measures at that area had been strengthened to prevent surface runoff.
	2. Drainage point was saturated.	2. The sludge inside drainage point had been removed.
18 June 2024 (Site inspection)	 <u>Observation(s) and Recommendation(s)</u> Muddy materials should be removed regularly at drainage point and Cassion 9. 	 Muddy materials at drainage point and Cassion 9 had been removed regularly.
25 June 2024 (Site inspection)	 <u>Observation(s) and Recommendation(s)</u> 1. NRMM label should be displayed on generators at substation. 2. Oil drum should be placed on the drip tray. 	 NRMM labels had been displayed on generators at substation. Oil drum have been removed and stored at designated area

- 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 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. FUTURE KEY ISSUES

- 10.1 Works to be undertaken in the next reporting month are:
 - Reclamation Area:
 - Pile cap construction
 - Structural steel work
 - Superstructure construction
 - Seawall Portion:
 - Caisson extension works, from +3mPD to +6mPD, at Seawall A and B
 - Construction of wave wall along the vertical seawall
- 10.2 Potential environmental impacts arising from the above construction activities are mainly associated with construction noise, waste management and ecology.
- 10.3 The key environmental mitigation measures for the Project in the coming reporting period expected to be associated with the construction activities include:
 - Reduction of noise from equipment and machinery on-site;
 - Sorting, recycling, storage and disposal of general refuse and construction waste;
 - Management of chemicals and avoidance of oil spillage on-site, especially under heavy rains and adverse weather;
 - Dust control of exposed soil surface and stockpile of dusty material at reclaimed area;
 - Dust suppression measures for exposed earth surface and stockpile of dusty material; and
 - Site runoff control measure during construction works.
- 10.4 The tentative schedule of regular construction noise and ecology monitoring in the next reporting period is presented in **Appendix M**. The regular construction noise and ecology monitoring will be conducted at the same monitoring locations in the next reporting period.

11. CONCLUSION AND RECOMMENDATIONS

- 11.1 This 72nd monthly Environmental Monitoring and Audit (EM&A) Report presents the EM&A works undertaken during the period from 1 June to 30 June 2024, in accordance with the Updated EM&A Manual and the requirement under EP-429/2012/A and FEP-01/429/2012/A.
- 11.2 Construction noise, construction waste and WBSE monitoring were carried out in the reporting period. No project-related exceedance of the Action and Limit Level was recorded from 1 June to 30 June 2024.
- 11.3 Weekly environmental site inspections were conducted during the reporting period. Environmental deficiencies were observed during site inspection and were rectified.
- 11.4 According to the environmental site inspections performed in the reporting month, the Contractor was reminded to pay attention on proper measure for preventing site runoff, proper storage of chemicals, proper storage of general waste and proper labelling to chemicals in-use.
- 11.5 No environmental complaint was received in the reporting period.
- 11.6 No notification of summon or prosecution was received since commencement of the Contract.
- 11.7 The ET will keep track of the construction works to confirm compliance of environmental requirements and the proper implementation of all necessary mitigation measures.

Appendix A Master Programme

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KEPMEL SUGHERS - ZHEN HUA ADMS	VENTURE

rogramme for		Original Duration	Remaining Duration			h Late Start	Late Finish	Total M78 Remarks Float	May 78	Jun 79
by an include	Design and Construction Works WP7A-M78 - 3-Month	2092	448	30-Nov-19 A	21-Aug-25	05-Dec-23	13-Aug-26	357		
y Dates		448	448	31-May-24	21-Aug-25	27-Jul-24	13-Aug-26	357		
ontractual Key	Dates	390	390	27-Jul-24	21-Aug-25	27-Jul-24	21-Aug-25	0		
01-1015(3)(M12)	Origional Date of Substantial Completion of the Works	0	0		27-Jul-24*		27-Jul-24	0 New Activity		
01-1020(7A)	Extension of Time (EOT) Granted (in working days)	317	317	0% 27-Jul-24	•	27-Jul-24 13-Aug-26	•	0 805		
Dates of Site Pos 01-1170	Possession of Portion 4 (EC No. 040)	0	-		31-May-24		13-Aug-26	805 Amend Activity Name		Possession of Portion 4 (EC No. 040
cense/Permit A		225				23-Dec-23	•	11		
	ion for Brine Discharge	113	82	15-Apr-24 A	20-Aug-24	11-Jun-24	31-Aug-24	11		
03-3960(7)	Review by EPD	28	21	25% 15-Apr-24 A	20-Jun-24	11-Jun-24	01-Jul-24	11		
03-3970(7)	Re-Submission of Application to EPD	14	14	0% 21-Jun-24	04-Jul-24	02-Jul-24	15-Jul-24	11		
03-3980(7)	Issuance of Temporary License by EPD	0	0 40	0%	04-Jul-24	17 101 04	15-Jul-24	11		
03-3990(7) 03-4000(7)	Public Consultation Issuance of Conditional License by EPD	40	40	0% 05-Jul-24	13-Aug-24 13-Aug-24		24-Aug-24 24-Aug-24	11		
03-4010(7)	Issuance of Brine Discharge License by EPD	7	7	0% 14-Aug-24		25-Aug-24	•	11		
DG Licence		120	120	12-Jul-24	08-Nov-24	29-Apr-24	19-Nov-24	11		
Day Tank & Fue	I Oil Storage (Cat 5)	120	120	12-Jul-24	08-Nov-24	29-Apr-24	26-Aug-24	-74		
03-1400	General Building Plans and FSI Provision Design Submission to FSD (Cat 5)	30	30	0% 12-Jul-24	10-Aug-24	· ·	,	-74		
03-1410	DGD and VD Review and Approval of Submission	90	90 111	0% 11-Aug-24 12-Jul-24	08-Nov-24 30-Oct-24	29-May-24 01-Aug-24	-	-74		
Chemical Stores 03-1480	Plans and FSI Provision Design Submission to FSD	21	21	0% 12-Jul-24		01-Aug-24		20		
03-1490	DGD and VD Review and Approval of Submission	90	90	0% 02-Aug-24	30-Oct-24	-	-	20		
Fire Services Inst	tallations (FSI) Certificate	126	95	01-Mar-24 A	02-Sep-24	18-Mar-24	20-Aug-24	-13		
Fire Engineering	g Report	73	42	01-Mar-24 A	11-Jul-24	18-Mar-24	28-Apr-24	-74		
05-4460(7)	Submission of Revised FER (comment by FSD in Nov 2023)	30	12	60% 01-Mar-24 A	11-Jun-24	18-Mar-24	29-Mar-24	-74		Submission of R
05-4470	FSD review and approval of General Building Plan	30	30	0% 12-Jun-24	11-Jul-24	30-Mar-24		-74		
	stallations Certificate Inspection	0	0		11-Jul-24	28-Apr-24		-74		
03-1555-1(5a)	Approval of General Building Plans and FSI Provision Design Submission stallations Certificate Inspection for IWMF Sub-Station	0	0 42	0% 22-Jul-24	11-Jul-24 02-Sep-24		28-Apr-24 20-Aug-24	-74 -13		
03-3880	Completion of FSI Installations for IWMF Sub-Station		0		19-Aug-24		06-Aug-24	-13		
03-3890	Application for FSI inspection	14	14	0% 22-Jul-24	0		23-Jul-24	-13		
03-3900	FSD Process Application	14	14	0% 05-Aug-24	-		06-Aug-24	-13		
03-3910	FSD Initial Inspection	14	14	5		07-Aug-24	•	-13		
	htrol (Specified Processes) License	14	8			23-Sep-24		115	_	Issuance of SP License
03-1830(3) Lifts or Escalator	Issuance of SP License	14	8			23-Sep-24 23-Dec-23		-167		
03-1060	Notification of Commencement of Works Involving Installation or Maintenance	0	_		00 501121	23-Dec-23	20 200 20	-167		 Notification of Commence
					20.14 25		12 Aug 26	503		
	ions	1337	302	30-Sep-20 A	28-Mar-25	19-Dec-23	13-Aug-20			
D <mark>esign Submissi</mark> General Building		1337				29-Mar-24	, v	-63		
Des <mark>ign Submi</mark> ssi				03-Mar-21 A	30-Jun-24	29-Mar-24	28-Apr-24			
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	Process Building & Wastewater Treatment Plant	
	Turbine Hall Building	
	Compressor & CCCW Building	
	Chimney	
	Mechanical Treatment Plant & Water Treatment Plan	lt
	Reception Pavilion Administration Building and Viewing Gallery	
	Elevated Drive Way and Associated Structures	
	IWMF Substation	
	ACC Equipment Structure	
	LV and Emergency Power Distribution Design	
	N N	ater Tanks (2.10.04.05)
		S)
		Mi
	Vehicle Fuel Filling Station (2.16.02	
	Warehouse (O&M Scope)	St.
	Workshop (O&M Scope)	
		·
al Mileston I Mileston		

r ID	Activity Name	Original	Remaining	Activity % Current Start	Current Finis	h Late Start	Late Finish	Total M78 Remarks	0	ted Waste Manage
		Duration	Duration	Complete				Float	May 78	Jun 79
DDA Design Packag		1337	302 84	·		19-Dec-23	Ŭ	503		
DDA Process and L	ayout Design (2.1) poess design for mechanical treatment (2.1.14)	181			, e	11-Oct-24 11-Oct-24		133		
05-3500	Mechanical Treatment Plant (2.1.14)	181	84		, v	11-Oct-24		133		
DDA Ground Treatm	nent, Reclamation, Seawall, Breakwater, Berth (2.2)	152	60	01-Feb-24 A	29-Jul-24	15-Mar-24	11-Dec-24	135		
05-3470-1(M37)	Mooring Dolphins	60		,	29-Jul-24	15-Mar-24	,	-77		
05-3480	Onshore crane Facility (2.2.23)	60					14-Aug-24	46		
05-3490 DDA Incineration P	Onshore vessel power supply system (2.2.24)	90	59 92			14-Oct-24 23-Jan-24		136 235		
	rumentation works design (2.3.15)	1034		· · · ·	, e	11-Feb-24	· ·			
E&IC Package 1 (Proc		105				27-Feb-24		-91		
05-3390-13(M55)	Electrical Works E&I Installation at Yard (2.3.15.02.08)	105				27-Feb-24		-94		
05-3390-6(M55)	Electrical Works Instrumentation (2.3.15.02.06)	105				27-Feb-24		-94		
05-7400-1(M55)	Electrical works CEMS and Process Analyzers (2.3.15.02.07)	105				01-Mar-24		-91		
E&IC Package 2 (Pow 05-3390-13(M55)10	Electrical Works Design (2.3.15.03.01 to 04)	348		23-Dec-20 A 41.9% 23-Dec-20 A		11-Feb-24 26-Jul-24		56 56 Remove Successor 06-4420(6) SS0		
05-3390-4(M46)	Generator Related Equipment (2.3.15.03.08)	105		41.9% 29-Jun-21 A		11-Feb-24		-110 Change Relationship to Successor		
								13-2280-1(6A) from FS0 to FF0		
Operation Managemen		972				22-Mar-24		68		
05-5400-1(M22) 2.3.15.04.03	Automatic Traffic Control System (ATCS)	90				07-Aug-24 22-Mar-24	20-Sep-24 19-Apr-24	68 Update Actual Start Date	L	
2.3.15.04.03.02		105	29	02-Aug-22 A	28-Jun-24	22-Mar-24	19-Apr-24	-70		
05-3390-13(M58) 2.3.15.04.06	OMS/SCADA/DCS - Panel Design for Power Island and Plant Common (2.3.15.04.03.02)	105		<u></u>		22-Mar-24 04-Apr-24		-70		
05-3390-9(6D)	Process Related 3rd Party System (2.3.15.04.06.01.01)	105				04-Apr-24		-57		
Mechanical works	design (2.3.16)	105	92	30-Sep-20 A	30-Aug-24	29-Jul-24	28-Oct-24	59		
Plant and Equipment		105			•	29-Jul-24		59		
05-3390-4(M55)	Electrical and Instrumentation Works - Waste Crane and Grapple System (2.3.15.05.04)	105		· · ·				59 Remove Actual Finish Date		
	installation design (2.3.17)	60				23-Sep-24		115		Fire Sy
05-3660 05-3680	Fire Systems (same package with 05-3680) FS schematics (same package with 05-3660)	60	15 15			23-Sep-24 23-Sep-24		115		FS sch
	design (excluding fire services installation design) (2.3.18)	303				23-Jan-24		64		
05-3690	Electrical Services and Lighting (7 Packages)	60	30	50% 22-Apr-22 A	29-Jun-24	28-Feb-24	28-Mar-24	-93		
05-3700	MVAC	90				26-Sep-24		118		
05-3710	Odour Control	90			5	26-Jul-24		56		
05-3720 05-3730	Plumbing (7 Packages) Drainage (7 Packages)	90	29 29			03-Oct-24 03-Oct-24		125		
05-3740	ELV (7 Packages)	60	30	50% 25-Oct-21 A		26-Sep-24		118		
05-3750	Lifts and Escalators	90	29	67.78% 13-Jul-23 A	28-Jun-24	23-Jan-24		-129		
05-3770	Building Management System (BMS)	60	30					-63		
05-3780 05-3780-2(M20)	Vehicle & Container Wash System Water Cannon System	60				30-Apr-24	-	-31 40		
. ,	awings and Fire Safety Strategy (2.3.25)	637						265		
05-3290	Process Building & Wastewater Treatment Plant	60				26-Jul-24		56		Process
05-3330	Chimney	60					08-Aug-24	42	C	
05-3340	Elevated Drive Way and Associated Structures	105				08-Jun-24	08-Aug-24	8		
05-4170	Administration Building and Viewing Gallery (2.7.21)	60				09-Apr-24		-52		
05-4800 05-5160	IWMF Site Wide Architectural Details Mechanical Treatment Plant & Water Treatment Plant (2.4.25)	105	62 28			20-Feb-25 26-May-24		-5		
	eatment Plant Building (2.4)	599				27-Dec-23		-135		
05-5190	Electrical and instrumentation works design	172	172	0% 30-Jun-24*	18-Dec-24	16-Feb-24	05-Aug-24	-135 Remove successor 12-1450		
05-5200	Mechanical works design (2.4.16)	135	154	20% 14-Aug-23 A	31-Oct-24	27-Dec-23	28-May-24	-156		
05-5210	Fire services installation design (2.6.17)	60	29			25-May-24		-6		
_	design (excluding fire services installation design) (2.4.18)	395				10-May-24		20		
05-3850 05-3860	LV and Emergency Power Distribution Design MVAC	90		I		31-May-24 11-May-24		-20		
05-3870	Odour Control	90				26-May-24		-5		Odour Co
05-3880	Plumbing	60		· · ·		10-May-24		-21		
05-3890	Drainage	60			-	11-May-24		-20		
05-3900	Lighting and small power	90				30-May-24		-1		
05-3910 05-3910-1	Lifts and Escalators Building Management System (BMS)	90	37			14-May-24 28-Jun-24		-17		
DDA Wastewater Tr		821	150	· ·		09-Jan-24		-65		
05-3950	Electrical and instrumentation works design (2.5.15)	60	62			28-Feb-24	, v	-93 Change Relationship to Successor		
								13-1010-2(6) from FS0 to FF0		
05-3960 05-3070	Mechanical works design (2.5.16) (5 Packages)	232		,		09-Jan-24		-143		
05-3970 Building services (Fire services installation design (2.6.17) (2 Packages) design (excluding fire services installation design) (2.5.18)	60 477				12-Mar-24 28-Feb-24		-80		
05-3980	LV and Emergency Power Distribution Design for IWMF Waste Water Treatment Plant	90				01-Mar-24	-	-91		
05-3990	MVAC	90				10-May-24		-21		
05-4000	Odour Control	90	45			25-Apr-24		-36		
05-4010	Plumbing	90	30	I		25-Jul-24	-	55		
05-4020	Drainage	105	30	71.43% 10-Mar-22 A	29-Jun-24	25-Jul-24	23-Aug-24	55		

3-Month Rolling Programme (May 2024)	Actual Work	Critical Remaining Work 🔶	•
	Remaining Work	♦ Milestone	•
PAGE 2 OF 16	5		



пауетет г	acilities, Phase 1 U	環境保護署 Environmental Protection Department
ın 9	Jul 80	Aug 81
,		
		Mechanica
		Mooring Dolphins
	Dishore crane Facility (2.2.23)	Onshore vessel power supply system (2.2.24)
	Electrical Works E&I Installation at Yard (2.3.15	02.08
	Electrical Works Instrumentation (2.3.15.02.06)	
	Electrical works CEMS and Process Analyzers (2.3.15 02.07)
		Electrical Works Design (2.3.15.03.01 to 04)
		Generator Related Equipment (2.3.15.03.08)
	Automatic Traffic Con	itrol System (ATCS)
	OMS/SCADA/DCS - Panel Design for Power Islar	id and Plant Common (2.3.15.04.03.02)
	Process Related 3rd Party System (2.3.15.04.	06.01.01)
ire Systems (same pa S schematics (same p		
5 schematics (same p		
	Electrical Services and Lighting (7 Packages)	
	//VAC	
	Plumbing (7 Packages)	
	Drainage (7 Packages)	
	ELV (7 Packages) Lifts and Escalators	
	Building Management System (BMS)	
	Vehicle & Container Wash System	
	ewater Treatment Plant	
	Chilmney	Elevated Drive Way and Associated Structures
		Administration Building and Viewing Gallery (2.7.
	Ae¢hanical Treatment Plant & Water Treatment Pla	IWMF Site Wide Architectural Details
·		
	Fire services installation design (2.6.17)	
[V and Emergency Power Distribution Design	
our Control	MVAC	
	Plumbing	
	Drainage Lighting and small power	
	Lifts and Escalators	
	Building Management System (BMS)	
		Electrical and instrumentation works design (2.5.
		Electrical and instrumentation works design (2.5.
	Fire services installation design (2.6.17) (2 Pack	anes
		Lgcs)
	V and Emergency Power Distribution Design for IV	VMF Waste Water Treatment Plant
	Odour Control	
	Plumbing	
	Drainage	
	ELV	

							Ele at l			li se	
(2.4)	Duration 513	Duration 30		29- Jun 24	01-May-24	26- lup 24	Float		May 78	Jun 79	
(2.6) esign (2.6.16)	90	30	,					inged bacik remaining dur to 30d.			
tion design (2.6.17)	60	30			-	,	-7				
fire services installation design) (2.6.18)	455	30			10-May-24		-3				
nd Lighting	90	30			28-May-24 10-May-24		-3 -21				
	60	30			10-May-24		-21				
	60	30			,		-21				
	90	30			28-May-24		-3				
mentation works design (2.7.13)	<u> </u>	37		A 06-Jul-24	28-Apr-24	22-Oct-24 28-May-24	108 -22				
tion design (2.7.14)	60	30			11-May-24	,	-22				
fire services installation design) (2.7.15)	395	37	20-Sep-22 A	A 06-Jul-24	28-Apr-24	22-Oct-24	108				
nd Lighting	90	30				5					
	90	30			27-May-24 23-Sep-24		-4 115				
	90	30	,		23-Sep-24 23-Sep-24		115				
	90	30	66.67% 20-Sep-22 A	A 29-Jun-24	29-Apr-24	28-May-24	-32				
et Custom (DMC)	90	37			14-May-24		-17				
nt System (BMS)	90	30		29-Jun-24		,	-33 117				
tion design (2.8.17)	60	0			-		8			Fire services installation desi	
fire services installation design) (2.8.18)	151	30		,	18-May-24		117	f			
nd Lighting	90	30					113				
	90	30			24-Sep-24		116				
	90	30			18-May-24 18-May-24		-13 -13				
	90	30			20-Sep-24		113				
nt System (BMS)	90	30	66.67% 25-Oct-21 A	29-Jun-24	25-Sep-24	24-Oct-24	117				
s design (2.8.15)	90	0			07-Jun-24		8				
mentation works design (2.8.15.06.01 to 40)	90 90	0		-	07-Jun-24		8			Electrical and instrumentation	
nemation works design (2.6.15.00.01 to 40)	60	14		-	12-Aug-24		73				
fire services installation design) (2.3.06)	60	14		13-Jun-24	12-Aug-24		73				
nt System (BMS)	60	14	76.67% 14-Jun-22 A	13-Jun-24	12-Aug-24	25-Aug-24	73			Build	
	182	90	21-Jun-22 A	28-Aug-24	14-May-24	29-Sep-24	32				
tion design	29	22				5	48				
fire services installation design)	182	90		, v	14-May-24		32			Electrical Services ar	
nd Lighting	90	60	94.44% 21-Jun-22 A 0% 31-May-24		22-Aug-24 26-Jun-24	•	83 26				
	90	90	,			•	32				
	90	37			14-May-24		-17				
nt System (BMS)	60 410	24 48			-	-	63 46				
ated Structures Foundation tion design	60	30			08-Jul-24		40				
fire services installation design)	105	48	· · ·	17-Jul-24	08-Jul-24	Ū	46				
nt System (BMS)	90	37	58.89% 25-Jul-22 A	06-Jul-24	19-Jul-24	24-Aug-24	49				
nd Lighting	90	37				26-Aug-24	51				
	105	48	5			24-Aug-24 01-Sep-24	38 46				
	105	40				01-Sep-24 01-Sep-24	40				
	105	48			10-Jul-24	-	40				
	410	48		17-Jul-24	24-Apr-24		68				
tion design	90	30			· ·	,	-37 70				
fire services installation design)	105	48	· · · ·	17-Jul-24	22-Jul-24	-	68				
nt System (BMS)	60	14	76.67% 28-Sep-22 A	A 13-Jun-24	25-Aug-24	07-Sep-24	86			Build	
	105	22					94				
	105 365	48			22-Jul-24 04-Jun-24		52 117				
tion design	60	30					4				
fire services installation design)	60	30			25-Sep-24		117				
nt System (BMS)	60	30					117				
	759	120		·	19-Dec-23	· · ·	3				
e Artificial Island (2.10.13)	90	23			09-Aug-24						
narkings	90	23				30-Sep-24					
dings layout	90 395	23 30	5		Ů	°	71 64				
und (2.10.14)		15								Fo	
rage (Site Wide Sewerage System)		15								Co	
ge Transfer System for Passenger Ferry							64				
ge Transfer Sy	e Sewerage System)	e Sewerage System) 60 stem for Passenger Ferry 90	· · · 60 15 ie Sewerage System) 60 15 stem for Passenger Ferry 90 30	··· ···· ···· ···· ···· ···· ···· ···· ···· ···· ···· ···· ···· ···· ···· ······	··· ··· ··· 60 15 75% 14-Mar-23 A 14-Jun-24 ··· 60 15 75% 14-Mar-23 A 14-Jun-24 ··· 60 15 75% 14-Mar-23 A 14-Jun-24 ··· stem for Passenger Ferry 90 30 66.67% 13-Jan-21 A 29-Jun-24	··· ··· <th td="" tr<="" ···<=""><td>No No No<</td><td>Normalization Normalization Normalinstation Normalization Normal</td><td>· · · · · · · · · · · · · · · · · · ·</td><td>No No No<</td></th>	<td>No No No<</td> <td>Normalization Normalization Normalinstation Normalization Normal</td> <td>· · · · · · · · · · · · · · · · · · ·</td> <td>No No No<</td>	No No<	Normalization Normalinstation Normalization Normal	· · · · · · · · · · · · · · · · · · ·	No No<

3-Month Rolling Programme (May 2024))
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Critical Remaining Work 🔶 ♦ ♦ Milestone

Critical

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ntract No. EP/SP/66/12	
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環境保護署 Environmental Protection Department

Jun	Jul	Aug
79	80	81
	Mechanical works design (2.6.16)	
	Fire services installation design (2.6.17)	
	Electrical Services and Lighting	
	MVAC	
	Plumbing	
	Drainage	
	ELV	
	rumentation works design (2.7.13) Fire services installation design (2.7.14)	
	Electrical Services and Lighting	
	MVAC	
	Plumbing	
	Drainage	
	ELV	
	Lifts and Escalators	
	Building Management System (BMS)	
(0.0.47)		
tion design (2.8.17)		
	Electrical Convision and Lighting	
	Electrical Services and Lighting MVAC	
	Plumbing	
	Prainage	
	ELV	
	Building Management System (BMS)	
nentation works design (2.8.15.	06.01 to 40)	
Building Management Syste	(m (BMS)	
Fire services i	hstallation design	
vices and Lighting		
vices and Eighting		/VAC
	Lift	
Building M	anagement System (BMS)	
	Fire services installation design	
	Building Management System (BMS)	
	Electrical Services and Lighting MVAC	
	Plumbing	
	Drainage	
	ELV	
	Foundation Design	
	Fire services installation design	
Building Management Syste	m (BMS)	
MVAC		
	Drainage	
	Fire convices installation design	
	Fire services installation design	
	Building Management System (BMS)	
Road signag	e and markings	
	ardstandings layout	
	· · · · · · · · · · · · · · · · · · ·	
Foul Sewerage		
	Site Wide Sewerage System)	
	Ship-to-shore Sewage Transfer System for Passenge	rFerry
Actrual Mileston	ie	
 Critical Mileston 		

	Adivity Name	Original	Remainir	ng Activity	% Current Start	Current Finis	Late Start	Late Finish	Total M78 Rer	marks		tegrated Waste Mana
		Duration	Duratio	· ·				0151.01	Float		May 78	Jun 79
-5310 Iter sunnly s	Surface water Drainage System system design on the Artificial Island (2.10.16)	90 759			0% 22-Feb-23 A 04-Apr-22 A	17-Jun-24 27-Sep-24			-114 -115			
-5250	Potable Water Distribution System	105			0% 31-May-24	12-Sep-24			-100			
-5260	Reuse Water System	90			0% 31-May-24	28-Aug-24			-85			
-5270	Irrigation System	90		90 0	0% 31-May-24	28-Aug-24	07-Mar-24		-85			
-5280	Rainwater harvesting System	90			0% 31-May-24	28-Aug-24			-85			
-5290 -5300	Water Tanks External FS Systems	60			0% 30-Jul-24 0% 31-May-24	27-Sep-24 29-Jul-24	06-Apr-24 06-Apr-24	04-Jun-24 04-Jun-24	-115 -55			
-5300-1(M24)	E&M system for seawater intake (2.10.16.07)	105			7% 04-Apr-22 A	_	22-May-24		-9			E&M 9
-5300-3(5a)	Chemical scrubber system for odour control (2.10.16.10)	105	10	05 C	0% 31-May-24	12-Sep-24	21-Feb-24	04-Jun-24	-100			
sign of telec	communication and other utilities (2.10.18)	668	ç	90	14-Jun-22 A	28-Aug-24	27-Jan-24	10-Jul-24	-49			
-4580	Power Distribution System concept / schematics	75			0% 31-May-24				-125			
-4590 -4600	Site Lighting Concept / Schematics Lightning Protection System concept / schematics	90			0% 31-May-24 0% 31-May-24	28-Aug-24 28-Aug-24	12-Apr-24 12-Apr-24	10-Jul-24 10-Jul-24	-49			
-4610	Site ELV Network System - Communications System concept / schematics	75			0% 16-Aug-22 A		11-Jun-24	10-Jul-24	11			
-4620	Site ELV Network System - Security Systems concept / schematics	75	3	30 60	0% 14-Jun-22 A	29-Jun-24	11-Jun-24	10-Jul-24	11			
-4630	Site ELV Network System - Navigation aids concept / schematics	60			0% 31-May-24				-19			Microwave transmission
-4640 -4650	Microwave transmission of FS direct link Fuel Handling System concept / schematics	105			4% 22-Aug-22 A 0% 31-May-24		08-Jul-24 29-Apr-24	10-Jul-24 27-Jun-24	-32			
	pebridges design (2.10.26)	90		29	03-Jul-23 A		19-Dec-23		-164			
-5040	Design of Pipe / Utilities Trenches concept	90	2	29 67.78	3% 05-Jul-23 A		19-Dec-23		-164			
-5050	Sitewide Utilities Trenches Design	90	2	23 75	5% 03-Jul-23 A	22-Jun-24	25-Dec-23	16-Jan-24	-158			
A Architectu	ral, Finishes and Landscaping Works (2.11)	699	ç	90	15-Jun-21 A	28-Aug-24	06-Mar-24	21-Feb-25	177			
ternal and in	nternal finishes design	516	2	29	15-Jun-21 A	28-Jun-24	06-Mar-24	30-Sep-24	94			
-4670	External and internal finishes design for Incineration Plant Building (2.11.15.01)	90			9% 19-Sep-22 A				5			
-4720	External and internal finishes design for Reception Pavilion (2.11.01.05)	90			9% 10-Nov-22 A		12-Jul-24	08-Aug-24	42			
-4730 -4740	External and internal finishes design for MT Plant Building (2.11.16) External and internal finishes design for the Wastewater Treatment Plant (2.11.17)	60			7% 16-Aug-23 A 7% 06-Jun-23 A			04-Sep-24 30-Sep-24	68 94			
-4750	External and internal finishes design for the Water Treatment Plant Building (2.11.08)	60			7% 16-Aug-23 A		· ·	· · ·	-86			
-4760	External and internal finishes design for the Administration Building (2.11.19)	60	2	29 51.67	7% 21-Sep-23 A	28-Jun-24	26-May-24	23-Jun-24	-5			
-5430	External and internal finishes design for Elevated Driveway	90			3% 15-Jun-21 A		11-Jun-24		11			
	Vorks (2.11.21)	105		2	26-Jan-23 A		19-Feb-25		265			landaran Mastanlan 0
-4780	Landscape Masterplan & Landscape Design for Water Feature (2.11.19.01)	105		2 98 90	3% 26-Jan-23 A			21-Feb-25	265 177			Landscape Masterplan &
cade Structu -8040(6D)	Reception Pavilion (2.3.14.07.01)	90			01-Dec-23 A 0% 31-May-24	28-Aug-24			177			
-8060(6D)	Administration Building and Viewing Gallery (2.7.12.01)	60			7% 01-Dec-23 A	•			46			Administration B
-8090(6D)	Sky Deck near Administration Building Structural Design	90			0% 31-May-24				117			
A Testing an	nd Commissioning (2.12)	881	18	80	19-May-22 A	26-Nov-24	14-Jan-24	19-Dec-24	23			
4810-2(M55)	FAT of DCS - Software SIL FAT Plant for Process Island (2.12.09.03.01)	105	1	10 90.48	3% 19-May-22 A	09-Jun-24	10-Apr-24	19-Apr-24	-51			FAT of DCS
4820	Site Acceptance Testing plan (2.12.10)	90	5	56 37.58	3% 28-Nov-23 A	26-Jul-24	14-Jan-24	10-Mar-24	-137 Change FF60	e Relationship to Successor FS0 to		
4830	System commissioning plan (2.12.11)	90	ç	90 0	0% 29-Aug-24	26-Nov-24	21-Sep-24	19-Dec-24	23			
A Transporta	ation Facilities for the Operation (2.13)	489	21	15	30-Jun-23 A	31-Dec-24	09-Feb-26	13-Aug-26	590			
4850	Design of vehicles for MSW and Ash and Residues delivery (2.13.05)	186				31-Dec-24		-	590			
4860	Design of marine vessels for the use of the Employer and visitors (2.13.06)	240			7% 30-Jun-23 A		14-Apr-26		683			
	eous Works (2.14)	241			31-Jul-24		24-Oct-24		85			
4880 A Miccollano	Design of visitors and environmental education facilities (2.14.06) eous Detailing (2.15)	241		41 U 93	31-Jul-24* 31-May-24		24-Oct-24 03-Feb-24		85 0			
4890	Covered walkway at passenger berth (2.15.06)	90			0% 31-May-24	-	15-Mar-24	-	-77			
4900	Gatehouses (2.15.07)	60				29-Jul-24	03-Jul-24		33			
4910	Weighbridge office (2.15.08)	93	ç	93 0	0% 31-May-24	31-Aug-24	03-Feb-24	05-May-24	-118			
A Auxiliary F	Plant Systems (2.16)	485	18	80	11-Nov-22 A	26-Nov-24	14-Apr-24	21-Oct-24	-36			
4920	Maintenance workshops (2.16.04)	0			0% 29-Aug-24	29-Aug-24		28-Jul-24	-31			
4930 4940	Vehicle Fuel Filling Station (2.16.05)	30			0% 11-Jul-24	-	· ·	-	-88			
4940 4940-1(5a)	Stores systems (2.16.06) IWMF Laboratory (2.16.08)	90			29-Aug-24 2% 11-Nov-22 A		06-Oct-24	21-Oct-24 21-Oct-24	-36 128			
4940-2(5a)	Hoisting systems (2.16.10)	180			1% 24-May-23 A		22-Aug-24		83			
A O&M Pack	ages	210	21	10	29-Apr-24 A	26-Dec-24	20-Aug-24	15-Feb-25	51			
8070(6E)	Warehouse (O&M Scope)	181	17	79 1.1	1% 29-Apr-24 A	25-Nov-24	21-Aug-24	15-Feb-25		Actual Start Date; Change		
8080(6E)	Workshop (O&M Scope)	181	17	70 1 1	10/ 20 Apr 24 A	DE Neu 24	21 Aug 24	15 Eab 25		nship from Predecessor FS-32 to Actual Start Date; Change		
0000(0E)		101	17	/9 1.1	1% 29-Apr-24 A	23-1107-24	2 I-Aug-24	15-Feb-25		nship from Predecessor FS-32 to		
8090(6E)	Ash & Residues Container (O&M Scope)	180	18	80 0	0% 30-Jun-24	26-Dec-24	20-Aug-24	15-Feb-25	51			
8110(6E)	Other Mobile Plants (O&M Scope)	180			5% 29-May-24 A		-			Actual Start Date		
	Major Equipment	972		67		21-Feb-25			30			
	ion of Incineration Modules	972			-	21-Feb-25			-123			
	Nodule (TPU)	972			22-May-22 A				-123			
ab 1- Line 1		762		92		30-Aug-24			31			
l Installation (C lectrical	On-site Installation)	583		0	25-Nov-22 A			09-Aug-24	61			
06-TPU-1-1280	PFab 1-Line 1 - Electrical Cable Pulling and Termination	302 180		8 95.56	04-Aug-23 A 5% 18-Sep-23 A	07-Jun-24 07-Jun-24	26-Mar-24 02-Aug-24		63 63			PFab 1-Line 1
06-TPU-1-1290		180			6% 04-Aug-23 A	_	26-Mar-24	-	-66			PFab 1-Line 1
nstrument	DE-L 1 Las 1 Jackward Oskie D. 19 J. T. J. 1	583	1	10	25-Nov-22 A			09-Aug-24	61			PFab 1-Lin
06-TPU-1-1310	PFab 1-Line 1 - Instrument Cable Pulling and Termination	180	1	IU 94.44	4% 25-Dec-22 A	09-Jun-24	31-Jul-24	UY-AUG-24	61			Prap (-LIF

PAGE 4 OF 16

ntract	' No	. EP/S	SP/66/	12
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gement Fa	cilities, Phase 1	nvironmental Protection Department
20	Jul 80	Aug 81
Surface water Draina		01
		R€
		lirr
		Ri Ri
	E	ternal FS Systems
stem for seawater in	ake (2.10.16.07)	
		Power Distribution System c
		Si
	Site ELV Network System - Communications System c	nncent / schematics
	Site ELV Network System - Security Systems concept	
50	Si Si	te ELV Network System - Navigation aids concept / s
FS direct link	F	uel Handling System concept / schematics
	esign of Pipe / Utilities Trenches concept	
Sitewide Utili	ties Trenches Design	
	ernal and internal finishes design for Incineration Plant	
	ernal and internal finishes design for Reception Pavilio	
	ternal and internal finishes design for MT Plant Buildir ternal and internal finishes design for the Wastewater	-
	ternal and internal finishes design for the Water Treat	-
	ternal and internal finishes design for the Administration ternal and internal finishes design for Elevated Drivew	-
ndscape Design for	Water Feature (2.11.19.01)	
ding and Viewing G	allery (2.7.12.01)	Rŧ
5 5		Sk
Auron CIL FAT DI		
SUITWATE SIL FAT PIG	nt for Process Island (2.12.09.03.01) Site Acc	eptance Testing plan (2.12.10)
		atehouses (2.15.07)
		Vehicle Fuel Filling Station (2.16.05
	0)	-
F Laboratory (2.16.0		Hoisting systems (2.16.10)
ectrical Cable Pulling	and Termination	
ectrical Cable Pulling ectrical Equipment Ir		
	ulling and Termination	
trual Mileston		
tical Mileston	e	

Adivity Name	Original Remaining Activity % Current Start Current Finish Late Start Late Finish Total M78 Remarks Duration Duration Complete	May Jun
06-TPU-1-1320 PFab 1-Line 1 - Instrument Equipment Installation	180 8 95.56% 25-Nov-22 A 07-Jun-24 31-Jul-24 07-Aug-24 61	78 79 PFab 1-Line 1 - Instrument E
06-TPU-1-1330 PFab 1-Line 1 - Instrument Tubing Installation	180 8 95.56% 01-Oct-23 A 07-Jun-24 31-Jul-24 07-Aug-24 61	PFab 1-Line 1 - Instrument T
sulation	698 62 23-May-22 A 31-Jul-24 01-Jul-24 31-Aug-24 31	
06-TPU-1-1020 PFab 1-Line 1 - Insulation	698 62 91.12% 23-May-22 A 31-Jul-24 01-Jul-24 31-Aug-24 31	
recommissioning 16-TPU-1-1030 PFab 1-Line 1 - Pre-commissioning	90 90 02-Jun-24 30-Aug-24 03-Jul-24 30-Sep-24 31 90 90 0% 02-Jun-24 30-Aug-24 03-Jul-24 30-Sep-24 31	
Fab 1- Line 2	70 70 70 70 70 70 70 70 70 70 70 70 70 7	
&I Installation (On-site Installation)	180 31 18-Oct-23 A 30-Jun-24 26-Mar-24 25-Apr-24 -66	
Electrical	180 31 18-Oct-23 A 30-Jun-24 26-Mar-24 25-Apr-24 -66	
06-TPU-2-1270 PFab 1-Line 2 - Electrical Cable Pulling and Termination	180 31 82.78% 18-Oct-23 A 30-Jun-24 26-Mar-24 25-Apr-24 -66	PFab 1-Line 2
06-TPU-2-1280 PFab 1-Line 2 - Electrical Equipment Installation nstrument	112 16 85.71% 06-Jan-24 A 15-Jun-24 26-Mar-24 10-Apr-24 -66 180 31 01-Nov-23 A 30-Jun-24 26-Mar-24 25-Apr-24 -66	
06-TPU-2-1300 PFab 1-Line 2 - Instrument Cable Pulling and Termination	180 31 82.78% 01-Nov-23 A 30-Jun-24 26-Mar-24 25-Apr-24 -66	
06-TPU-2-1310 PFab 1-Line 2 - Instrument Equipment Installation	112 16 85.71% 06-Jan-24 A 15-Jun-24 08-Apr-24 23-Apr-24 -53	PFab 1-Line 2
06-TPU-2-1320 PFab 1-Line 2 - Instrument Tubing Installation	112 16 85.71% 06-Jan-24 A 15-Jun-24 08-Apr-24 23-Apr-24 -53	PFab 1-Line 2
sulation)6-TPU-2-1010 PFab 1-Line 2 - Insulation	698 77 22-May-22 A 15-Aug-24 16-Jun-24 31-Aug-24 16 698 77 88.97% 22-May-22 A 15-Aug-24 16-Jun-24 31-Aug-24 16	
recommissioning	90 90 17-Jun-24 14-Sep-24 03-Jul-24 30-Sep-24 16	
06-TPU-2-1020 PFab 1-Line 2 - Pre-commissioning	90 90 0% 17-Jun-24 14-Sep-24 03-Jul-24 30-Sep-24 16	
ab 1- Line 3	800 245 23-May-22 A 30-Jan-25 15-Feb-24 18-Oct-24 -104	
&I Installation	205 205 205 10-Jun-24 31-Dec-24 15-Feb-24 06-Sep-24 -116	
Electrical	205 205 10-Jun-24 31-Dec-24 15-Feb-24 06-Sep-24 -116	
06-TPU-3-1270 PFab 1-Line 3 - Electrical Cable Pulling and Termination 06-TPU-3-1280 PFab 1-Line 3 - Electrical Equipment Installation	180 180 0% 05-Jul-24 31-Dec-24 11-Mar-24 06-Sep-24 -116 180 180 0% 10-Jun-24* 06-Dec-24 15-Feb-24 12-Aug-24 -116	
nstrument	205 205 10-Jun-24 31-Dec-24 15-Feb-24 06-Sep-24 -116	
06-TPU-3-1300 PFab 1-Line 3 - Instrument Cable Pulling and Termination	180 180 0% 05-Jul-24 31-Dec-24 11-Mar-24 06-Sep-24 -116	
06-TPU-3-1310 PFab 1-Line 3 - Instrument Equipment Installation	180 180 0% 10-Jun-24 06-Dec-24 15-Feb-24 12-Aug-24 -116	
06-TPU-3-1320 PFab 1-Line 3 - Instrument Tubing Installation sulation	180 180 0% 10-Jun-24 06-Dec-24 15-Feb-24 12-Aug-24 -116 769 245 23-May-22 A 30-Jan-25 17-Feb-24 18-Oct-24 -104	
16-TPU-3-1010 PFab 1-Line 3 - Insulation	769 245 68.14% 23-May-22 A 30-Jan-25 17-Feb-24 18-Oct-24 -104 769 245 68.14% 23-May-22 A 30-Jan-25 17-Feb-24 18-Oct-24 -104	
Fab 1- Line 4	832 245 25-May-22 A 30-Jan-25 15-Feb-24 18-Oct-24 -104	
Al Installation	205 205 10-Jun-24 31-Dec-24 15-Feb-24 06-Sep-24 -116	
Electrical	205 205 10-Jun-24 31-Dec-24 15-Feb-24 06-Sep-24 -116	
06-TPU-4-1270 PFab 1-Line 4 - Electrical Cable Pulling and Termination	180 180 0% 05-Jul-24 31-Dec-24 11-Mar-24 06-Sep-24 -116	
06-TPU-4-1280 PFab 1-Line 4 - Electrical Equipment Installation nstrument	180 180 0% 10-Jun-24* 06-Dec-24 15-Feb-24 12-Aug-24 -116 205 205 10-Jun-24 31-Dec-24 15-Feb-24 06-Sep-24 -116	
06-TPU-4-1300 PFab 1-Line 4 - Instrument Cable Pulling and Termination	180 180 0% 05-Jul-24 31-Dec-24 11-Mar-24 06-Sep-24 -116	
06-TPU-4-1310 PFab 1-Line 4 - Instrument Equipment Installation	180 180 0% 10-Jun-24 06-Dec-24 15-Feb-24 12-Aug-24 -116	
06-TPU-4-1320 PFab 1-Line 4 - Instrument Tubing Installation	180 180 0% 10-Jun-24 06-Dec-24 15-Feb-24 12-Aug-24 -116	
sulation)6-TPU-4-1010 PFab 1-Line 4 - Insulation	767 245 25-May-22 A 30-Jan-25 17-Feb-24 18-Oct-24 -104 767 245 68.06% 25-May-22 A 30-Jan-25 17-Feb-24 18-Oct-24 -104	
26-TPU-4-1010 PFab 1-Line 4 - Insulation	767 245 68.06% 25-May-22 A 30-Jan-25 17-Feb-24 18-Oct-24 -104 822 267 04-Jun-22 A 21-Feb-25 29-Jan-24 21-Oct-24 -123	
All Installation	194 194 01-Aug-24 10-Feb-25 28-Mar-24 07-Oct-24 -126	
lectrical	194 194 01-Aug-24 10-Feb-25 28-Mar-24 07-Oct-24 -126	
06-TPU-5-1270 PFab 1-Line 5 - Electrical Cable Pulling and Termination	180 180 0% 15-Aug-24 10-Feb-25 11-Apr-24 07-Oct-24 -126	
06-TPU-5-1280 PFab 1-Line 5 - Electrical Equipment Installation nstrument	180 180 0% 01-Aug-24* 27-Jan-25 28-Mar-24 23-Sep-24 -126 104 104 104 10 104 10	
06-TPU-5-1300 PFab 1-Line 5 - Instrument Cable Pulling and Termination	194 194 01-Aug-24 10-Feb-25 28-Mar-24 07-Oct-24 -126 180 180 0% 15-Aug-24 10-Feb-25 11-Apr-24 07-Oct-24 -126	
06-TPU-5-1310 PFab 1-Line 5 - Instrument Equipment Installation	180 180 0% 01-Aug-24 27-Jan-25 28-Mar-24 23-Sep-24 -126	
06-TPU-5-1320 PFab 1-Line 5 - Instrument Tubing Installation	180 180 0% 01-Aug-24 27-Jan-25 28-Mar-24 23-Sep-24 -126	
sulation	822 267 04-Jun-22 A 21-Feb-25 29-Jan-24 21-Oct-24 -123	
16-TPU-5-1010 PFab 1-Line 5 - Insulation	822 267 67.52% 04-Jun-22 A 21-Feb-25 29-Jan-24 21-Oct-24 -123 818 266 08-Jul-22 A 20-Feb-25 22-Jan-24 13-Oct-24 -130	
Fab 1- Line 6 81 Installation	818 266 08-Jul-22 A 20-Feb-25 22-Jan-24 13-Oct-24 -130 194 194 01-Aug-24 10-Feb-25 28-Mar-24 07-Oct-24 -126	
	194 194 01-Aug-24 10-Feb-25 28-Mar-24 07-Oct-24 -126	
06-TPU-6-1270 PFab 1-Line 6 - Electrical Cable Pulling and Termination	180 180 0% 15-Aug-24 10-Feb-25 11-Apr-24 07-Oct-24 -126	
06-TPU-6-1280 PFab 1-Line 6 - Electrical Equipment Installation	180 180 0% 01-Aug-24* 27-Jan-25 28-Mar-24 23-Sep-24 -126	
nstrument 06-TPU-6-1300 PFab 1-Line 6 - Instrument Cable Pulling and Termination	194 194 01-Auq-24 10-Feb-25 28-Mar-24 07-Oct-24 -126 180 180 0% 15-Auq-24 10-Feb-25 11-Apr-24 07-Oct-24 -126	
06-TPU-6-1300 PFab 1-Line 6 - Instrument Cable Fulling and Termination 06-TPU-6-1310 PFab 1-Line 6 - Instrument Equipment Installation	180 180 0% 13-Aug-24 10-reb-25 11-Aug-24 07-04-24 -120 180 180 0% 01-Aug-24 27-Jan-25 28-Mar-24 23-Sep-24 -126	
06-TPU-6-1320 PFab 1-Line 6 - Instrument Tubing Installation	180 180 0% 01-Aug-24 27-Jan-25 28-Mar-24 23-Sep-24 -126	
sulation	761 266 08-Jul-22 A 20-Feb-25 22-Jan-24 13-Oct-24 -130	
06-TPU-6-1010 PFab 1-Line 6 - Insulation	761 266 65.05% 08-Jul-22 A 20-Feb-25 22-Jan-24 13-Oct-24 -130	
prication of Module (FGC)	895 267 25-May-22 A 21-Feb-25 29-Jan-24 21-Oct-24 -123	
ab 2 - Line 1	731 92 25-May-22 A 30-Aug-24 01-Jul-24 30-Sep-24 31	
&I Installation	134 10 04-Aug-23 A 09-Jun-24 31-Jul-24 09-Aug-24 61	
Electrical 06-FGC-1-1250 PFab 2-Line 1 - Electrical Cable Pulling and Termination	134 8 04-Auq-23 07-Jun-24 31-Jul-24 09-Auq-24 63 120 8 93.33% 18-Sep-23 07-Jun-24 02-Aug-24 09-Aug-24 63	PFab 2-Line 1 - Electrical Ca
06-FGC-1-1260 PFab 2-Line 1 - Electrical Equipment Installation	120 8 93.33% 04-Aug-23 A 07-Jun-24 31-Jul-24 07-Aug-24 61	PFab 2-Line 1 - Electrical Ec
nstrument	134 10 01-Oct-23 A 09-Jun-24 31-Jul-24 09-Aug-24 61	DEsk 2 Liss 1. Justices
06-FGC-1-1280 PFab 2-Line 1 - Instrument Cable Pulling and Termination	120 10 91.67% 01-Oct-23 A 09-Jun-24 31-Jul-24 09-Aug-24 61	PFab 2-Line 1 - Instrument
06-FGC-1-1290 PFab 2-Line 1 - Instrument Equipment Installation	120 8 93.33% 05-Nov-23 A 07-Jun-24 31-Jul-24 07-Aug-24 61	PFab 2-Line 1 - Instrument I
06-FGC-1-1300 PFab 2-Line 1 - Instrument Tubing Installation sulation	120 8 93.33% 01-Oct-23 A 07-Jun-24 31-Jul-24 07-Aug-24 61 666 62 25-May-22 A 31-Jul-24 01-Jul-24 31-Aug-24 31	
16-FGC-1-1130 PFab 2-Line 1 - Insulation	666 62 90.69% 25-May-22 A 31-Jul-24 01-Jul-24 31-Aug-24 31 666 62 90.69% 25-May-22 A 31-Jul-24 01-Jul-24 31-Aug-24 31	
recommissioning	90 90 02-Jun-24 30-Aug-24 03-Jul-24 30-Aug-24 31-Sep-24 31	
06-FGC-1-1190 PFab 2-Line 1 - Pre-commissioning	90 90 0% 02-Jun-24 30-Aug-24 03-Jul-24 30-Sep-24 31	

3-Month Rolling Programme (May 2024)
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Critical Remaining Work 🔶 ♦ Milestone •

Critical Milestone

	lo. EP/SP/66/12 cilities, Phase 1	環境保護署 Invironmental Protection Department
Jun	Jul 80	Aug 81
79 Line 1 - Instrument E quipment	Installation	81
Line 1 - Instrument Tubing Inst	allation	
		PFab 1-Line 1 - Insulation
	PFab 1-Line 2 - Electrical Cable Pulling and Termin	ation
PFab 1-Line 2 - Electrica	I Equipment Installation	
	PFab 1-Line 2 - Instrument Cable Pulling and Termi	nation
PFab 1-Line 2 - Instrume PFab 1-Line 2 - Instrume	ent Equipment Installation	
	3	
		PFab 1-Line 2 - Insulation
	· ·	; ,
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	1 A 1	-
Line 1 - Electrical Cable Pulling	and Termination	
Line 1 - Electrical Cable Pulling		
b 2-Line 1 - Instrument Cable F	ulling and Termination	
Line 1 - Instrument Equipment	Installation	
Line 1 - Instrument Tubing Inst	allation	
		PFab 2-Line 1 - Insulation
	i	i
Actrual Milestor		



Integrated Waste Managem

vity ID	Activity Name	1	Origina				Current Finis	h Late Start	Late Finish		M78 Remarks		nted Waste Managem
			Duration		· ·					Float		May 78	Jun 79
PFab 2 - Line 2			534						30-Sep-24				
E&I Installation			134				30-Jun-24						
Electrical 06-FGC-2-1250	PFab 2-Line 2 - Electrical Cable	Pulling and Termination	134			18-Oct-23 A % 18-Oct-23 A	30-Jun-24 30-Jun-24	10-Jul-24 10-Jul-24	09-Aug-24 09-Aug-24	40 40			
06-FGC-2-1260	PFab 2-Line 2 - Electrical Equipr	•	59			% 06-Jan-24 A		10-Jul-24		40			PFab 2-Line
Instrument			134		1	01-Nov-23 A		10-Jul-24	09-Aug-24	40			
06-FGC-2-1280	PFab 2-Line 2 - Instrument Cable PFab 2-Line 2 - Instrument Equip		120			% 01-Nov-23 A		10-Jul-24	09-Aug-24	40			PFab 2-Line
06-FGC-2-1290 06-FGC-2-1300	PFab 2-Line 2 - Instrument Equip PFab 2-Line 2 - Instrument Tubir		112			% 06-Jan-24 A % 06-Jan-24 A		10-Jul-24 10-Jul-24	25-Jul-24 25-Jul-24	40			PFab 2-Line
Insulation			405				15-Aug-24			16			
06-FGC-2-1010	PFab 2-Line 2 - Insulation		405	5 77	80.999	% 10-Feb-23 A	•			16			
Precommissioning			90			17-Jun-24	14-Sep-24	03-Jul-24	30-Sep-24	16			
06-FGC-2-1020	PFab 2-Line 2 - Pre-commission	ng	90			% 17-Jun-24		03-Jul-24		16			
PFab 2 - Line 3			205			10-Jun-24			06-Sep-24				
E&I Installation Electrical			205			10-Jun-24 10-Jun-24	31-Dec-24 31-Dec-24		06-Sep-24 06-Sep-24				
06-FGC-3-1250	PFab 2-Line 3 - Electrical Cable	Pulling and Termination	180			% 05-Jul-24	31-Dec-24		06-Sep-24				
06-FGC-3-1260	PFab 2-Line 3 - Electrical Equipr	nent Installation	180	180	09	% 10-Jun-24*	06-Dec-24	15-Feb-24	12-Aug-24	-116			
Instrument	DEah 2 Line 2 Instrument Cable	Dulling and Termination	205		1	10-Jun-24	31-Dec-24		06-Sep-24				
06-FGC-3-1280 06-FGC-3-1290	PFab 2-Line 3 - Instrument Cable PFab 2-Line 3 - Instrument Equip	0	180			% 05-Jul-24 % 10-Jun-24	31-Dec-24 06-Dec-24		06-Sep-24 12-Aug-24	_			
06-FGC-3-1300	PFab 2-Line 3 - Instrument Tubir		180			% 10-Jun-24	-		12-Aug-24				
PFab 2 - Line 4		J	205			10-Jun-24			06-Sep-24				
E&I Installation			205	5 205		10-Jun-24	31-Dec-24	15-Feb-24	06-Sep-24	-116			
Electrical			205	5 205		10-Jun-24	31-Dec-24	15-Feb-24	06-Sep-24	-116			
06-FGC-4-1250	PFab 2-Line 4 - Electrical Cable	·	180			% 05-Jul-24	-		06-Sep-24				
06-FGC-4-1260 Instrument	PFab 2-Line 4 - Electrical Equipr	hent instaliation	180			% 10-Jun-24* 10-Jun-24	06-Dec-24 31-Dec-24		12-Aug-24 06-Sep-24	_			
06-FGC-4-1280	PFab 2-Line 4 - Instrument Cable	Pulling and Termination	180		1	% 05-Jul-24			06-Sep-24				
06-FGC-4-1290	PFab 2-Line 4 - Instrument Equip	ment Installation	180	180	09	% 10-Jun-24	06-Dec-24	15-Feb-24	12-Aug-24	-116			
06-FGC-4-1300	PFab 2-Line 4 - Instrument Tubir	g Installation	180	180	09	% 10-Jun-24	06-Dec-24	15-Feb-24	12-Aug-24	-116			
PFab 2 - Line 5			831	267		30-Jun-22 A	21-Feb-25	29-Jan-24	21-Oct-24	-123			
E&I Installation			194			01-Aug-24			07-Oct-24				
Electrical 06-FGC-5-1250	PFab 2-Line 5 - Electrical Cable	Pulling and Termination	19 4 180			01-Aug-24 % 15-Aug-24	10-Feb-25		07-Oct-24 07-Oct-24	-126 -126			
06-FGC-5-1260	PFab 2-Line 5 - Electrical Equipr	·	180			% 01-Aug-24*	-		23-Sep-24				
Instrument			194			01-Aug-24	10-Feb-25			-126			
06-FGC-5-1280	PFab 2-Line 5 - Instrument Cable	0	180			% 15-Aug-24	10-Feb-25		07-Oct-24	_			
06-FGC-5-1290	PFab 2-Line 5 - Instrument Equip		180			% 01-Aug-24	27-Jan-25		23-Sep-24	_			
06-FGC-5-1300	PFab 2-Line 5 - Instrument Tubir	g Installation	180			5			23-Sep-24				
Insulation 06-FGC-5-1200	PFab 2-Line 5 - Insulation		736			30-Jun-22 A % 30-Jun-22 A	21-Feb-25			-123 -123			
PFab 2 - Line 6	Prab 2-Line 5 - Insulation		194			01-Aug-24			07-Oct-24	-125			
E&I Installation			194			01-Aug-24			07-Oct-24				
Electrical			194			01-Aug-24			07-Oct-24	-126			
06-FGC-6-1260	PFab 2-Line 6 - Electrical Cable	5	180	180	09	% 15-Aug-24	10-Feb-25	11-Apr-24	07-Oct-24	-126			
06-FGC-6-1270	PFab 2-Line 6 - Electrical Equipr	nent Installation	180			% 01-Aug-24*							
Instrument 06-FGC-6-1290	PFab 2-Line 6 - Instrument Cable	Pulling and Termination	194		1	01-Aug-24 % 15-Aug-24	10-Feb-25 10-Feb-25		03-Oct-24 03-Oct-24				
06-FGC-6-1300	PFab 2-Line 6 - Instrument Equip		180			-			19-Sep-24				
06-FGC-6-1310	PFab 2-Line 6 - Instrument Tubir		180			% 01-Aug-24							
Off-site Fabrication	n of Turbine Modules		29	9 29		31-May-24	28-Jun-24	10-Dec-23	07-Jan-24	-173			
Fabrication of Mo	dule (Power Island)		29	29		31-May-24	28-Jun-24	10-Dec-23	07-Jan-24	-173			
Turbine Module 2	2		29	29		31-May-24	28-Jun-24	10-Dec-23	07-Jan-24	-173			
06-4280(6)	Turbine Module 2 - Delivery		29	29	09	% 31-May-24	28-Jun-24	10-Dec-23	07-Jan-24	-173			
Turbine Module 3	3		29	9 29		31-May-24	28-Jun-24	10-Dec-23	07-Jan-24	-173			
06-4480(6)	Turbine Module 3 - Delivery		29	29	09	% 31-May-24	28-Jun-24	10-Dec-23	07-Jan-24	-173			
Procurement for A	ACC Units		21	21		02-Jun-24	22-Jun-24	11-Apr-24	01-May-24	-52			
06-1190	Delivery to Site ACC-3		21	21	09	% 02-Jun-24	22-Jun-24	11-Apr-24	01-May-24	-52			
Procurement for M	lechanical Treatment Plant B	uilding Plant Equipment	61	31		01-May-24 A	30-Jun-24	07-May-24	06-Jun-24	-24			
06-1180	Delivery to Site		61	31	49.189	% 01-May-24 A	30-Jun-24	07-May-24	06-Jun-24	-24	Update Actual Start Date		
Procurement for W	Vastewater Treatment Plant E	quipment	90) 31		15-Jan-24 A	30-Jun-24	27-Feb-24	28-Mar-24	-94			
06-1220	Delivery to Site		90		65.569	% 15-Jan-24 A							
	Desal & Demin Plant Equipme	nt	542			21-Apr-22 A	, v		30-May-24	-75			
06-1260	Delivery to Site		55			% 15-Feb-24 A			12-Apr-24	-80			
06-1260-1(M55)	WTP chemical storage tank Mate	••	120			% 21-Apr-22 A			15-Apr-24	-75			
06-1260-2(M55)	WTP chemical storage tank Proc Chemical storage tank delivery to		180			% 22-Apr-22 A % 15-Jun-24			15-May-24		Changed Relationship from the		
06-1260-3(M55)	Chemical Storage (ank delivery to	1 2116	6	, 60	05	/o 10-JUII-24	13-Aug-24	01-API-24	30-May-24		Predecessor 06-1260-2(M55) FS0 to FF30		
Procurement for H	IV Transformers and Associa	ted Equipment	276	63		01-Jan-23 A	02-Aug-24	17-Mar-24	19-May-24				
Procurement of IS			276	63			-		19-May-24				
06-1270(7)	IS Limiter Design Approval			4 26	09	% 01-Jan-23 A			-	-67			
06-1280(7)	Manufacturing of IS Limiter		90			% 31-Dec-23 A			19-Apr-24	-74			
00-1200(7)			10	5 15	00	02 101 24	18-Jul-24	20- Apr- 24	04-May-24	-74			1
06-1290(7)	Factory Acceptance Test (FAT)		15	10	05	% 03-Jul-24	10-Jul-24	20-7401-24	04-1Vici y-24	-74			

3-Month Rolling Programme (May 2024)	Actual Work
	Remaining Work
PAGE 6 OF 16	6

Critical Remaining Work ♦ ♦ Milestone

Critical

nagement Fa	lo. EP/SP/66/12 cilities, Phase 1		景境保護署 invironmental Protection Department
2. n)	Jul 80		Aug 81
,	00		01
	PFab 2-Line 2 - Electrical Cable	Pulling and Termina	ation
PFab 2-Line 2 - Electrica	l Equipment Installation		
	PFab 2-Line 2 - Instrument Cab	le Pulling and Termi	nation
PFab 2-Line 2 - Instrume PFab 2-Line 2 - Instrume	nt Equipment Installation		
TT db 2 Eme 2 molium			
	1 		PFab 2-Line 2 - Insu
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Т	urbine Module 2 - Delivery		
	· · ·····		
T	urbine Module 3 - Delivery		
Dollyon to f			
Delivery to S	piic ACC-3		
	Delivery to Site		
	Delivery to Site		
	Delivery to Site		
	WTP chemical storage tank Mater		
		V	TP chemical storage tank Procurement (Incl. FA
			Chemical storage tank o
IS Limi	ter Design Approval Manufacturing of IS Limiter		
		actory Acceptance	Test (FAT)
	-		Delivery to Site

y ID	Adivity Name	Original	Remaining	ty % Current Start	Current Finis	Late Start	Late Finish		M78 Remarks		ntegrated Waste Manager
		Duration	Duration		15 1 04		10.4.04	Float		May 78	Jun 79
Procurement for Co 06-1340	Delivery to Site	31 31	16 16	16-May-24 A 39% 16-May-24 A	15-Jun-24 15-Jun-24	04-Apr-24 04-Apr-24	19-Apr-24 19-Apr-24	-57 -57	Update Actual Start Date; Change Relationship from Predecessor		Delivery to
Procurement for O	nshore Crane at Berth	668	120	04-Dec-22 A	27-Sep-24	04-Mar-24	01-Jul-24	-88	05-3390-9(6D) FF to SS; from Predecessor		
06-1350	Supplier Submission and Approval	60	2	 67% 04-Dec-22 A		04-Mar-24	05-Mar-24	-88			Supplier Submission and Approval
06-1360 Procurement and (Material & Equipment Procurement Off-site Fabrication of Pipe Bridges (Incl. Pipings)	180 15	118 15	 44% 01-Apr-24 A 10-Jun-24	27-Sep-24 24-Jun-24	06-Mar-24 03-Mar-24		-88			
Fabrication of Pip		15	15	10-Jun-24	24-Jun-24		17-Mar-24	-99			
•	B2 on the Roof of Turbine Hall	15	15	10-Jun-24	24-Jun-24	03-Mar-24	17-Mar-24	-99			
06-5395(M78)	Pipe bridge B2 on the Roof of Turbine Hall Delivery	15 30	15 30	 0% 10-Jun-24*	24-Jun-24 29-Jun-24		17-Mar-24		New Activity		
Hoist System	ranage Equipment	30	30		29-Jun-24	27-Feb-24		-94			
06-8330(M57)	Monorail Hoist Delivery to Site	30	30		29-Jun-24	27-Feb-24		-94			
	leighbridge System	76	76	17-Jun-24	· · ·	05-Apr-24		-73			<u></u>
06-2240(1) Procurement for Tr	Delivery to Site (EIAC Equipment) ruck Wash System	76 150	76 150	 0% 17-Jun-24 31-May-24		05-Apr-24 31-Mar-24		-73			
06-2290(1)	Material Submission and Approval	60	60	0% 31-May-24	29-Jul-24		29-May-24	-61			
06-2300(1)	Material & Equipment Procurement	90	90	0% 30-Jul-24	27-Oct-24	3	27-Aug-24	-61			
Procurement for Co 06-8200(6D)	In the second se	209 60	209 29	30-Apr-24 A 57% 30-Apr-24 A	25-Dec-24	06-Mar-24	30-Sep-24 03-Apr-24	-86			
06-8210(6D)	Material & Equipment Procurement	120	120	 0% 29-Jun-24	26-Oct-24		03-Api-24 01-Aug-24	-86			
06-8220(6D)	Factory Acceptance Test (FAT)	120	120	0% 29-Jul-24	25-Nov-24	-	31-Aug-24	-86			
06-8230(6D) Off-site Precasting	Delivery to Sile	120 585	120 127	0% 28-Aug-24 14-Feb-23 A	25-Dec-24 04-Oct-24		30-Sep-24 23-Mar-25	-86			
06-8040(6D)	Procurement of Precast Concrete Wall Panel Moulding & Fabrication	205		59% 14-Feb-23 A			13-Jan-24	-145			Procurement of Precast
IWMF Substation		90	90	06-Jun-24	04-Sep-24	19-Jun-24	16-Sep-24	12			
06-8070(6D) 06-8080(6D)	Precasting of Concrete Panels Factory Acceptance Test (FAT)	60 60	60 60	 0% 06-Jun-24 0% 06-Jul-24		19-Jun-24 19-Jul-24	17-Aug-24 16-Sep-24	12			
Elevated Drive Wa		90	90	 06-Jun-24	04-Sep-24	13-Feb-24		-115			
06-8100	Precasting of Concrete Panels	60	60	0% 06-Jun-24	05-Aug-24	13-Feb-24	12-Apr-24	-115			
06-8110	Factory Acceptance Test (FAT)	60 90	60 90	 0% 06-Jul-24 06-Jun-24	04-Sep-24 04-Sep-24	14-Mar-24 14-Jan-24	12-May-24	-115			
Turbine Hall 06-8130	Precasting of Concrete Panels	45	45	0% 06-Jun-24	21-Jul-24		27-Feb-24	-145			
06-8140	Factory Acceptance Test (FAT)	45	45	 0% 06-Jul-24	20-Aug-24		28-Mar-24	-145			
06-8150	Delivery to Site	30 90	30 90	 0% 05-Aug-24 06-Jun-24		14-Mar-24 14-Jan-24		-145			
Process Building	Precasting of Concrete Panels	60	60	0% 06-Jun-24			13-Mar-24				
06-8170	Factory Acceptance Test (FAT)	60	60	0% 21-Jun-24			28-Mar-24				1
06-8180 Mechanical Treatn	Delivery to Site	30 90	30 90	 0% 05-Aug-24 06-Jun-24		14-Mar-24 10-Mar-24	12-Apr-24	-145			
06-8190	Precasting of Concrete Panels	60	60	0% 06-Jun-24		10-Mar-24		-89			
06-8200	Factory Acceptance Test (FAT)	60	60	0% 06-Jul-24		09-Apr-24		-89			
Administration Bu	Precasting of Concrete Panels	90 60	90 60	06-Jun-24 0% 06-Jun-24		21-Jan-24	19-Apr-24 20-Mar-24	-138			
06-8260	Factory Acceptance Test (FAT)	60	60	 0% 06-Jul-24	-	20-Feb-24		-138			
Chimney		120	120	06-Jun-24	04-Oct-24	24-Nov-24	23-Mar-25	170			
06-8280	Steel Claddings Fabrication Factory Acceptance Test (FAT)	90 60	90 60	 0% 06-Jun-24 0% 05-Aug-24	04-Sep-24 04-Oct-24		21-Feb-25				
Environmental Wo		365	245	5	30-Jan-25		19-Dec-24				
Baseline Air Qualit	y Monitoring Works	365	245	01-Feb-24 A	30-Jan-25	19-Apr-24	19-Dec-24	-42			
07-1220	Carry out baseline Air Quality monitoring at Portion 3 (Alternative Location)	365	245	 38% 01-Feb-24 A		19-Apr-24		-42			
07-1240 Aaritime Works	Carry out baseline Air Quality monitoring at Portion 5	365 1854	245 210	38% 01-Feb-24 A 30-Nov-19 A	30-Jan-25 26-Dec-24			-42 177			
Marine Construction	n	1854	210	30-Nov-19 A	26-Dec-24	10-Jan-24	21-Jun-25	177			
	ction of Perimeter Seawalls	1842	198	30-Nov-19 A	14-Dec-24	10-Jan-24	21-Jun-25	189			
Seawall and Bert		1842	198		14-Dec-24			-84			
Seawall Structural W 08-1115(3)	Vorks Caisson infill, Solid ballast, toe protection, precast concrete blocksetc Laying	1842 250	198	30-Nov-19 A 18% 30-Nov-19 A	14-Dec-24			-84			Caisson inf
Remain Works	Calsson minin, Suna bairasi, ne protection, precasi concrete biocksetc. Laying	1162	198		14-Dec-24			-84			
08-1120 08-1120-1(6)	Construction of Seawall and Wave Wall Extension from +3mPD to Deck Level for Seawall A Construction of Seawall and Wave Wall Extension from +3mPD to Deck Level for Seawall B	220 220	110 15	 50% 10-Oct-21 A 31% 10-Oct-21 A			-	-116			Constructio
08-1120-1(6) 08-1120-2(M55)	Construction of Seawall and Wave Wall Extension from +3mPD to Deck Level for Seawall B No. C1 & C2 (Caisson A2 & /	60	90	 0% 28-Jun-23 A					Updated activity		
08-1120-4(M55)	Construction of Seawall and Wave Wall Extension from +3mPD to Deck Level for Seawall B No. C73 & C734	60	90	0% 01-Dec-23 A	28-Aug-24	10-Jan-24	08-Apr-24		updated activity		
08-1320(6) Seawall at Dredgi	Construction of Rear Wall Buttress & Panel for Seawall A	180 160	180 12	 	14-Dec-24 11-Jun-24	-		-84			
Remain Works		160	12		11-Jun-24			375			
08-1170	Construction of Seawall and Wave Wall Extension from +3mPD to Deck Level (Bay 1 to Bay 8)	160	12	5% 11-Jul-22 A	11-Jun-24	10-Jun-25	21-Jun-25	375			Construction of
	ation, Breakwater and Berth Construction	634	210		26-Dec-24		, , , , , , , , , , , , , , , , , , ,				
Reclamation		68	68	06-Jun-24	12-Aug-24	01-Mar-24	07-May-24	-97			

3-Month Rolling Programme (May 2024)
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Critical Remaining Work 🔶

Critical

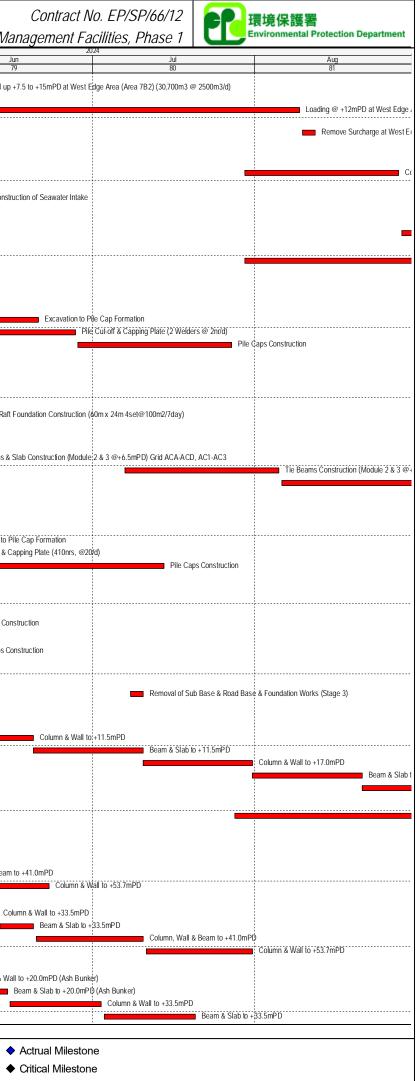
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Management Fa	lo. EP/SP/66/12 cilities, Phase 1	R	表示 表
Jun	Jul		Aug
79 Delivery to Site	80		81
on and Approval			
Pipe brid	ge B2 on the Roof of Turbine Hall	Delivery	
	Monorail Hoist Delivery to Site		
		M	alerial Submission and Approval
M	aterial Submission and Approval		
ent of Precast Concrete Wall P	anel Moulding & Fabrication		
			Precasting of Concrete Panels
			Precasting of Concrete Panels
		Precasting of C	oncrete Panels Factory Accepta
			Precasting of Concrete Panels Factory Accepta
			Precasting of Concrete Panels
			Precasting of Concrete Panels
Caisson infill, Solid ballast,	toe protection, precast concrete b	locksetc Laying	
	d Wave Wall Extension from +3m		Seawall B
			Ca
Construction of Seawall and Wa	ve Wall Extension from +3mPD to) Deck Level (Bay 1	to Bay 8)
Activical Mall4			
 Actrual Mileston Critical Mileston 			

	- 原 革 県 参 公 考 an an A MORT VENTERE								Integrated Waste
ID	Activity Name	Original Duration	Remaining Duration		Current Finis	h Late Start	Late Finish	Total M78 Remarks Float	May
Surcharge Filling 08-3060-2(M57)	Fill up +7.5 to +15mPD at West Edge Area (Area 7B2) (30,700m3 @ 2500m3/d)	5	5	06-Jun-24 0% 06-Jun-24	10-Jun-24 10-Jun-24		05-Mar-24 05-Mar-24	-97 -97	Final State Stat
Surcharge Period 08-3120-3(M57)		60 60	60 60			06-Mar-24 06-Mar-24		-97	
Surcharge Removal	Loading @ +12mPD at West Edge Area (Area 7B2)	3	3	10-Aug-24	12-Aug-24	05-May-24	07-May-24	-97 -97	
08-3200-3(M57) Seawall and Berth a	Remove Surcharge at West Edge Area (Area 7B2) (30,700m3 @ 4000m3/d)	3	-	5	12-Aug-24 26-Dec-24	05-May-24 06-Mar-24	-	-97 -140	
Remain Works		30				25-Apr-24	J		
08-1330(2)	Construction of Seawall and Wave Wall Extension from +3mPD to Deck Level	30			5	25-Apr-24	,	-96	
Seawater Intake Struct 08-2400(6D)	Construction of Seawater Intake	90 90					16-Mar-24 16-Mar-24	-86 Changed relation with 13-2540-1(6B) and	
Fire Boat Access		120	120	29-Aug-24	26-Dec-24	11-Apr-24	08-Aug-24	13-2540-2(7) to FS+30	
08-2500(6D)	Construction of Fire Boat Access	120		5		11-Apr-24	•		
Mooring Dolphins		90				14-May-24	· ·		
09-4000(6G)	Mooring Dolphins Piling Works	90			27-Oct-24	14-May-24 15-Dec-23	•		
iky Deck Foundation		58		, in the second s	27-Jul-24				
Sky Deck Pile Caps		58	58		27-Jul-24		10-Feb-24		
09-2730(M62)	Excavation to Pile Cap Formation	21		, .	20-Jun-24		04-Jan-24	-168	
09-2740(M62) 09-2750(M62)	Pile Cut-off & Capping Plate (2 Welders @ 2nr/d) Pile Caps Construction	21			27-Jun-24 27-Jul-24		11-Jan-24 10-Feb-24	-168 -168	
	/aste Bunker & Tipping Hall Bld Foundation	26			03-Jun-24				
Process Building Pi	le Cap Construction	26	3	05-Aug-23 A	03-Jun-24	23-Feb-24	26-Feb-24	-97	
	Iodule 3 Between Grid PB22 to PB32)	26		ÿ	03-Jun-24		26-Feb-24	-97	
Process Building (Mod 09-1260	tule 3) WWTP Pile Caps and Raft Foundation Construction (60m x 24m 4set@100m2/7day)	26		05-Aug-23 A 87.12% 05-Aug-23 A	03-Jun-24			-97 -97	Pile Caps and
CC Equipment Fou		157			19-Sep-24			-82	
ACC Pile Cap Const	truction	157	110	01-Nov-23 A	19-Sep-24	18-Mar-24	29-Jun-24	-82	
09-1710-2(M58)	Tie Beams & Slab Construction (Module 2 & 3 @+6.5mPD) Grid ACA-ACD, AC1-AC3	30					22-Mar-24	-76 Renamed Activity	Tie Bea
09-1710-3(M78) 09-1720-1(M58)	Tie Beams Construction (Module 2 & 3 @+6.5mPD) Grid ACA-ACD, AC4-AC6 On-grade Slab Construction Grid ACA-ACG, AC3-AC4	45			-	07-Apr-24 16-May-24	-	-91 New Activity -82 Renamed Activity	
	nt Plant & Water Treatment Plant Bld Foundation	78	45	, v	14-Jul-24	-		-81	
	ent Plant & Water Treatment Plant Bld Pile Cap Construction	78					25-Apr-24	-81	
·	ent Plant Pile Cap Construction	78			14-Jul-24		25-Apr-24	-81	Excavalio
09-1920 09-1930	Excavation to Pile Cap Formation Pile Cut-off & Capping Plate (410nrs, @20/d)	39		85.57% 22-Jan-24 A 73% 01-Feb-24 A			25-Apr-24 25-Apr-24	-41	Pile Cut-c
09-1940	Pile Caps Construction	60					25-Apr-24	-81	
^	and Associated Structures Foundation	27	7		07-Jun-24			-56	
Elevated Drive Way Elevated Drive Way	Pile Cap Construction	27		J	07-Jun-24				
09-2760(M57)	Pile Caps Construction	21					18-Mar-24		Pile Cap
Elevated Drive Way		21	7	30-Dec-23 A	07-Jun-24	05-Apr-24	12-Apr-24	-56	
09-2730(M57)	Pile Caps Construction	21		66.35% 30-Dec-23 A			12-Apr-24		Pile Ca
leavy Load Access Demolition		3	3		10-Jul-24 10-Jul-24		26-Mar-24 26-Mar-24		
09-3040(6D)	Removal of Sub Base & Road Base & Foundation Works (Stage 3)	3			10-Jul-24		26-Mar-24		
uperstructure Work	-	539	142		19-Oct-24				
dministration & Vie	wing Gallery Bld Structure	135	104	28-Apr-24 A	11-Sep-24	26-Jan-24	08-May-24	-126	
10-1010	Column & Wall to +11.5mPD Beam & Slab to +11.5mPD	21					14-Feb-24 06-Mar-24		
10-1020 10-1030	Column & Wall to +17.0mPD	21			10-Jul-24 31-Jul-24		27-Mar-24		
10-1040	Beam & Slab to +17.0mPD	21			21-Aug-24	28-Mar-24	17-Apr-24	-126	
0-1050	Column & Wall to +22.5mPD	21		5		18-Apr-24 11-Feb-24			
ky Deck Structure 10-2310 (M55)	Construction of RC Column (16nr, 0.9m Dia x 11m, 3 pours @ 5d/pour with 4 formwork sets)	60				11-Feb-24		-168	
	/aste Bunker & Tipping Hall Bld Structure	200			16-Oct-24			-80	
Waste & Ash Bunke	r Bld Structure	200	139	07-Mar-24 A	16-Oct-24	05-Dec-23	28-Jul-24	-80	
	Module 1) Waste & Ash Bunker Bld Structure	67	23		22-Jun-24			-158	Column Well 0
10-1180	Column, Wall & Beam to +41.0mPD Column & Wall to +53.7mPD	21		90.48% 27-Mar-24 A 0% 02-Jun-24			25-Dec-23	-159 -158	Column, Wall &
	Vodule 2) Waste & Ash Bunker Bld Structure	93			31-Jul-24		04-Mar-24		
10-1260	Column & Wall to +33.5mPD	30		56.67% 21-Apr-24 A			15-Jan-24	-149	
10-1280	Beam & Slab to + 33.5mPD	30		76.67% 24-May-24 A			22-Jan-24	-149 Update Actual Start Date	
10-1290	Column, Wall & Beam to +41.0mPD Column & Wall to +53.7mPD	21			10-Jul-24 31-Jul-24		12-Feb-24 04-Mar-24	-149 -149	
	Vodule 3) Waste & Ash Bunker Bld Structure	154	93		31-Aug-24			-132	
10-1340	Column & Wall to +20.0mPD (Ash Bunker)	14					11-Dec-23		Column
10-1360	Beam & Slab to +20.0mPD (Ash Bunker)	10					19-Dec-23	-178	
10-1370	Column & Wall to +33.5mPD	18	18	0% 15-Jun-24	02-Jul-24	OF Ion 24	22-Jan-24	-162 Update Original Duration from 30 to 18	

3-Month Rolling Programme (May 2024)	Actual Work	Critical Remaining Work
	Remaining Work	♦ ♦ Milestone
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)			Remaining	Activity 0/	Current Start	Current Finis	h Lato Stort	Late Finish	Toto	I M78 Remarks		,
	Adivity Name	Original Duration	Duration		Cullent Start	Current Tillis	II Late Start	Later mish	Float		May 78	Jun 79
10-1400	Column, Wall & Beam to +41.0mPD	21	21		21-Jul-24		10-Feb-24		-162			
10-1410 Process Building	Column & Wall to +53.7mPD Waste & Ash Bunker Bld Structural Steel Roof	21	21 116		11-Aug-24 23-Jun-24	31-Aug-24 16-Oct-24	01-Apr-24 08-Mar-24	-	-132			
10-2080	Structural Steel Roof Erection	90	90		14-Jul-24	11-Oct-24	30-Apr-24		-75			
0-2330 (M63)	Facade Structural Frame Installation at Module 1	60	60	0%	23-Jun-24	21-Aug-24	· ·		-28	3		
10-2340 (M63)	Facade Structural Frame Installation at Module 2	60	60		01-Aug-24	29-Sep-24		-	-146			
10-2350 (M63)	Facade Structural Frame Installation at Module 3 Waste & Ash Bunker Bld Structure Between Bunker 1 and 2	60	60 62		18-Aug-24 31-May-24	16-Oct-24 31-Jul-24	08-Apr-24	06-Jun-24 09-Feb-24	-132 -173			
10-2360 (M78)	Beam & Slab to +20.5mPD	14	14		31-May-24	13-Jun-24		23-Dec-23		3 New Activity		Beam
10-2370 (M78)	Beam & Slab to + 33.5mPD Grid Line PBG to PBJ	21	21		14-Jun-24	04-Jul-24		09-Feb-24		5 New Activity		
10-2380 (M78)	Beam & Slab to +15.5mPD	9	9	0%	18-Jun-24	26-Jun-24	28-Dec-23	05-Jan-24	-173	3 New Activity		
10-2390 (M78)	Beam & Slab to +17.5mPD	14	14		27-Jun-24	10-Jul-24		19-Jan-24		3 New Activity		
0-2400 (M78)	Beam & Slab to +27.28mPD Beam & Slab to +11.58mPD and +12.4mPD	12	12 11		11-Jul-24 21-Jul-24	22-Jul-24 31-Jul-24		31-Jan-24 09-Feb-24		3 New Activity 3 New Activity		
10-2410 (M78) 10-2420 (M78)	Beam & Slab to + 33.5mPD Grid Line PBG to PBJ	9	9		21-Jul-24 23-Jul-24	31-Jul-24 31-Jul-24		09-Feb-24		3 New Activity		
	Waste & Ash Bunker Bld Structure Between Bunker 2 and 3	62	62		07-Jun-24	07-Aug-24		15-Mar-24	-145	,		
0-2430 (M78)	Beam & Slab to +20.5mPD	14	14	0%	07-Jun-24	20-Jun-24	14-Jan-24	27-Jan-24	-145	5 New Activity		
0-2440 (M78)	Beam & Slab to +33.5mPD Grid Line PBG to PBJ	21	21		21-Jun-24	11-Jul-24	24-Feb-24			B New Activity		
0-2450 (M78)	Beam & Slab to +15.5mPD	9	9		25-Jun-24	03-Jul-24		09-Feb-24 23-Feb-24		New Activity		
D-2460 (M78) D-2470 (M78)	Beam & Slab to +17.5mPD Beam & Slab to +27.28mPD	14	14		04-Jul-24 18-Jul-24	17-Jul-24 29-Jul-24	10-Feb-24 24-Feb-24			5 New Activity 5 New Activity		
)-2480 (M78)	Beam & Slab to +11.58mPD and +12.4mPD	12	12		28-Jul-24	07-Aug-24		15-Mar-24		5 New Activity		
0-2490 (M78)	Beam & Slab to +33.5mPD Grid Line PBG to PBJ	9	9	0%	30-Jul-24	07-Aug-24	07-Mar-24	15-Mar-24	-145	5 New Activity		
oping Hall Bld S	tructure	58	38		12-Apr-24 A	08-Jul-24	24-Mar-24	08-Jun-24	-29	9		
ocess Building	(Module 2) Tipping Hall Bld Structure	43	21			20-Jun-24	24-Mar-24	13-Apr-24	-68	3		
0-1510	Column & Wall to +27.28mPD	21	2			02-Jun-24		26-Mar-24	-68			Column & Wall to +27.28
0-1520	Beam & Slab to +27.28mPD	21	19			A 20-Jun-24	26-Mar-24		_	3 Update Actual Start Date		
-	(Module 3) WWTP & Tipping Hall Structure	35	35		1	A 08-Jul-24	-	08-Jun-24	-29			
0-3070-5(7) 0-3070-6(7)	Column & Wall to +27.28mPD Beam & Slab to +27.28mPD	21	21 14		,	A 24-Jun-24 08-Jul-24	26-May-24	25-May-24 08- Jun-24	-29			
	Boiler & Flue Gas Treatment Bld Structure	517	120			27-Sep-24	,		-66			
eel Structure		453	52		21-Aug-23 A	21-Jul-24	11-Mar-24	23-Jul-24	2	2		
oiler Building St	teel Structure	453	52		21-Aug-23 A	21-Jul-24	13-Apr-24	03-Jun-24	-48	3		
•	odule 1) Steel Structure Erection	60	29		21-Aug-23 A	29-Jun-24	05-May-24	03-Jun-24	-25	5		
10-1640	Roof Cladding Installation	60	29	50.95%	21-Aug-23 A	29-Jun-24	05-May-24	03-Jun-24	-25	5		· · · · · · · · · · · · · · · · · · ·
5.	odule 2) Steel Structure Erection	60	52			21-Jul-24		03-Jun-24	-48			
10-1680	Roof Cladding Installation	60	52	13.42%	25-Oct-23 A	21-Jul-24	13-Apr-24	03-Jun-24	-48	Change Relationship from Predecessor 10-1720 from FS0 to FF0		
Process Building (M	odule 3) Process Building Steel Structure Erection	60	38		12-Dec-23 A	08-Jul-24	26-Apr-24	03-Jun-24	-34			
10-1720	Roof Cladding Installation	60	38	36%	12-Dec-23 A	08-Jul-24	26-Apr-24	03-Jun-24	-34	4 Change Relationship from Predecessor		-
lua Cao Traatma	ant Did Chaol Chrushura	32	11		20 Nov 22 A	10-Jun-24	11-Mar-24	22 101 24	44	10-1640 from FS0 to FF0		
	ent Bld Steel Structure odule 2) Steel Structure Erection	32				10-Jun-24	18-Jul-24		44			
10-1800	Roof Cladding Installation	30	6			10-Jun-24	18-Jul-24			Change Relationship from Predecessor		Roof Clade
										10-1840 from FS0 to FF0		
5.	lodule 3) Steel Structure Erection	30				10-Jun-24			-81			Roof Clade
10-1840	Roof Cladding Installation Internal Partition Wall and Staircase	30 120	11 120			10-Jun-24 27-Sep-24	11-Mar-24 13-Dec-23		-81			
1850	RC Partition and Staircase at Module 1	60	60		31-May-24	29-Jul-24		10-Feb-24	-170			
-1860	RC Partition and Staircase at Module 1	60	60		30-Jul-24	27-Sep-24			-170			
mpressor & CCC	CW Bld Structure	21	21		31-May-24	20-Jun-24	28-Apr-24	18-May-24	-33	3		
2210	Concrete Plinth & install anchor bolts @+15.0mPD	21	21	0%	31-May-24	20-Jun-24	28-Apr-24	18-May-24	-33			
mney Structure		75	60		26-Jan-24 A	29-Jul-24	22-Jan-24	21-Mar-24	-130			
-2060	Chimney RC Structure (1st to 46th Pour) (from +60mPD @1.8m/d)	75						21-Mar-24				
	ent Plant Bld Structure	99	100			07-Sep-24			-70			
2090 2095	Ground Slab @+6.5mPD Column & Wall to +13.5mPD	21	1			31-May-24	11-Mar-24 11-Mar-24		-81			Ground Slab @+6.5mPD
2095	1/F Slab @+13.5mPD	21	21		15-Jun-24	A 15-Jun-24 06-Jul-24	27-Mar-24		-81			
2100	Column & Wall to +17.5mPD	21	21		06-Jul-24	27-Jul-24	17-Apr-24		-81			
2110	2/F Slab @+17.5mPD	21	21	0%	27-Jul-24	17-Aug-24	19-May-24	08-Jun-24	-70)		
2120	Column & Wall to +23.0mPD	21	21		17-Aug-24	07-Sep-24			-70			
	lant Bld Structure	95	27		-	A 26-Jun-24			-4			
-2370(6F)	3/F Slab @+23.0mPD Heli Pad @+265mPD	21			,	A 05-Jun-24		13-Mar-24		4 Update Actual Start Date		3/F Slab @+23.0r
2380(6F) 2390(6F)	Parapet Wall	90	20 21		,	A 19-Jun-24 26-Jun-24	03-Jun-24 14-Mar-24		-84			
	y and Associated Structures	124	104			11-Sep-24			-85			
-	IN RSA to RSG (42.8m)	103	99			06-Sep-24			-101			
	G/F Base Slab	45	18			17-Jun-24	20-Feb-24		-101			
0-2210(M57)	Wall & Column to +12.5mPD Mezzanine Level	30	30		18-Jun-24	17-Jul-24	09-Mar-24		-101	1		
0-2210(M57) 0-2220(M57)	Wall & Countin to +12.5mPD Mezzahine Level											
0-2220(M57) 0-2230(M57)	Beam & Slab to +12.5mPD Mezzanine Level	21	21		18-Jul-24	07-Aug-24	· ·		-101			
0-2220(M57) 0-2230(M57) 0-2250(M57)		21 30 63	21 30 78	0%	08-Aug-24	07-Aug-24 06-Sep-24 11-Sep-24	29-Apr-24	28-May-24	-101 -101 -106	1		

3-Month Rolling	Programme	(May 2024)
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Actual Work Remaining Work

Critical Remaining Work 🔶 ♦ ♦ Milestone



ı ID	- 振 標 標 後 公 考 Zian al A cost Vestual Activity Name	Original	Remaining		Current Finis	h Late Start	Late Finish	Total M78 Remarks		rated Waste Mana
		Duration	Duration	Complete				Float	May 78	Jun 79
10-2320(M57)	Wall & Column to +12.5mPD Mezzanine Level	21	21		31-Jul-24	27-Mar-24		-106		
10-2330(M57) 10-2340(M57)	Beam & Slab to + 12.5mPD Mezzanine Level Wall & Column to +17.5 Ramp Level	21	21 21	5	21-Aug-24 11-Sep-24		07-May-24 28-May-24	-106		
	y RSU to RSAF (99m)	112	92	5	31-Aug-24	-	18-Jun-24	-73		
10-2360(M57)	G/F Base Slab	45	32	30% 15-Apr-24 A	01-Jul-24	12-Mar-24	12-Apr-24	-80		
10-2370(M57)	Wall & Column to +13mPD Mezzanine Level	45	20	55% 20-Apr-24 A	20-Jun-24	18-Mar-24	07-Apr-24	-73		
10-2380(M57)	Beam & Slab to +13mPD Mezzanine Level	30	21	,			28-Apr-24	-73		-
10-2390(M57) 10-2400(M57)	Wall & Column to +17.5 Ramp Level Beam & Slab to +17.5 Ramp Level	30	21 30	,	•	29-Apr-24 20-May-24	19-May-24	-73		
Pipebridge Structur		115			22-Sep-24	03-Mar-24		-99		
Pipe Bridge B	• •	115	115	03-Apr-24 A	22-Sep-24	03-Mar-24	15-Jun-24	-99		
10-2300-1(6D)	Erection of Pipe bridge B1 on the Roof of Turbine Hall	90	45	50% 03-Apr-24 A	14-Jul-24	03-Mar-24	16-Apr-24	-89 Update Actual Start Date		
10-2300-2(6H)	Erection of Pipe bridge B2 on the Roof of Turbine Hall	90	90	0% 25-Jun-24	22-Sep-24	18-Mar-24	15-Jun-24	-99		
Pipe Bridge C		36	36	, , , , , , , , , , , , , , , , , , ,	05-Jul-24	,	24-May-24			
Connect to ACC 1		3	3	31-May-24	02-Jun-24		18-May-24			
10-2310(6)	Erection of Pipebridge C between Turbine Hall & ACC 1	3	3		02-Jun-24	-	18-May-24			Erection of Pipebridge C
Connect to ACC 2		3			02-Jul-24		21-May-24			
10-2310-1(M63) Connect to ACC 3	Erection of Pipebridge C between Turbine Hall & ACC 2	3			02-Jul-24 05-Jul-24	,	21-May-24 24-May-24			
10-2310-2(M63)	Erection of Pipebridge C between Turbine Hall & ACC 3	3			05-Jul-24		24-May-24			
/ehicle Fuel Filling		45			23-Sep-24	14-May-24		-42		
10-2450(6D)	Filling Station Structure Construction	45		ÿ	23-Sep-24	-		-88		
ACC Yard		142		5		23-Mar-24		-82		
13-2000	Delivery and Erection of ACC Steel Structure & Steel Structure Support of Condensate Tank (Module 1)	90	45	50% 31-Mar-24 A	14-Jul-24	24-Mar-24	07-May-24	-68 Change dur to 90d; Update Actual Start Di		
13-2040	Delivery and Erection of ACC Steel Structure & Steel Structure Support of Condensate Tank (Module 2)	90	90	0% 07-Jul-24	04-Oct-24	23-Mar-24	20-Jun-24	-106 Remove predecessor 09-1720-1(M58), 09-1710-3((M78), Added Predecessor 12-2220-1(6H), Change dur to 90d		
13-2080	Delivery and Erection of ACC Steel Structure & Steel Structure Support of Condensate Tank (Module 3)	90	90	0% 22-Jul-24	19-Oct-24	01-May-24	29-Jul-24	-82 Change dur to 90d		
rchitectural Builde	ers Works & Finishes	344	252	27-Sep-23 A	06-Feb-25	12-Dec-23	22-Apr-25	75		
Process Building - \	Waste Bunker & Tipping Hall Bld ABWF Works	230	216	20-Nov-23 A	02-Jan-25	17-Dec-23	22-Nov-24	-41		
11-1070	Metal Railings, Platforms, Gratings, Cable trench covers Installations	115	115	,	22-Sep-24	17-Dec-23		-166		
11-1080	Internal Wall and Floor Finishes	230	216			· ·	22-Nov-24	-41		
11-1090 11-1100	False ceiling and Raise Floor installation (in CCR) External Finishes, Curtain Walls and Roof Waterproofing	45	45 87	,	14-Jul-24		19-Apr-24 30-Sep-24	-86		
	Boiler & Flue Gas Bld ABWF Works	252			06-Feb-25		20-Dec-24	-48		
11-1120	Metal Railings, Staircase, Platforms & Gratings Installations	200	200	0% 21-Jul-24	06-Feb-25	04-Jun-24	20-Dec-24	-48		
11-1130	Internal Wall and Floor Finishes	180	180	0% 31-May-24	26-Nov-24	17-Jan-24	14-Jul-24	-135		
11-1560(7)	Transformer Room 1 & 2 Blockwork and Finishes	30	30	,			10-Jan-24	-171		
11-1570(7)	Transformer Room 3 & 4 Blockwork and Finishes	30	30				11-Jan-24	-170		
11-1580(7) Turbine Hall Bld AB	Transformer Room 5 & 6 Blockwork and Finishes W/F Works	30 194	30 163		29-Jui-24 09-Nov-24	12-Jan-24				
Electrical Bld ABW		151	120		27-Sep-24			-71		
11-1150	Door, Windows and Louvers Installation	90	90					-71		
11-1160	Metal Railings, Platforms, Gratings, Cable trench covers Installations	90	86		•			-37		
11-1170	Internal Wall and Floor Finishes	90	18		17-Jun-24	01-Jul-24	18-Jul-24	31		
11-1180	False ceiling and Raise Floor installation	90	90	,	28-Aug-24			-138		
11-1190	External Finishes, Roof Waterproofing	90	90		27-Sep-24			-71 -26		
11-1540 Turbine Hall ABWF	Facade Panels Erection (167pcs. @8pcs/d)	23	23 163		13-Aug-24 09-Nov-24			-26		
11-1200	Door, Roller Shutter, Windows and Louvers Installation	60	60	,	10-Oct-24		23-May-24			
11-1210	Metal Rallings, Platforms, Gratings, Cable trench covers Installations	90	90	5	28-Aug-24		,			
11-1220	Internal Wall and Floor Finishes for remain area	90	90		28-Aug-24			-79		
11-1240	External Finishes, Curtain Walls and Roof Waterproofing	120	120		09-Nov-24	24-Feb-24		-140		
11-1540-1(M63)	Facade Structural Frame Erection	52	52	,	21-Jul-24		03-Mar-24			
11-1550	Facade Panels Erection (207pcs. @4pcs/d) W Bid ABWF Works	51	51 120			04-Mar-24 06-Apr-24		-140		
11-1250	Door, Roller Shutter, Windows and Louvers Installation	90	90		27-3ep-24 28-Aug-24		03-Aug-24			
11-1260	Metal Railings, Platforms, Gratings, Cable trench covers Installations	90	90	,	27-Sep-24	,	03-Aug-24	-55		
11-1270	Internal Wall and Floor Finishes	90	90		28-Aug-24	-	03-Aug-24			
11-1280	False ceiling and Raise Floor installation	90	90	,	28-Aug-24	-	03-Aug-24			
11-1290	External Finishes and Roof Waterproofing	90	90	,	28-Aug-24			-55		
Chimney ABWF Wo		120				22-Mar-24		-44		
10-2240 11-1000	Erection of Steel Grating Platform Installation of Metal Staircase, Railings	90	90 90		27-Oct-24 26-Nov-24		19-Jun-24 13-Oct-24	-130 revised dur to 60		
	ent Plant & Water Treatment Plant Bld ABWF Works	177		5	03-Dec-24			44		
	nent Plant ABWF Works	120	120		03-Dec-24			44		
	Metal Railings, Platforms, Gratings, Cable trench covers Installations	120	120		03-Dec-24		16-Jan-25	44		
11-1310		120	120	5	03-Dec-24	· ·	02-Jan-25	30		
11-1310	Internal Wall and Floor Finishes	120								
		140	140	5	27-Oct-24	15-Mar-24	01-Aug-24	-87		
11-1310 11-1320				10-Jun-24	27-Oct-24		01-Aug-24 01-Aug-24	-87 -87		
11-1310 11-1320 Water Treatment P	lant ABWF Works	140	140	10-Jun-24 0% 30-Jul-24 0% 10-Jun-24		04-May-24 28-Mar-24	01-Aug-24	-87 -74		

3-Month Rolling Programme (May 2024)

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Actual Work Remaining Work

Critical Remaining Work 🔶 ♦ ♦ Milestone



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rity ID	Adivity Name	Original		Activity % Current Sta	t Current Fini	sh Late Start	Late Finish		I M78 Remarks		rated Waste Managel
		Duration	Duration	Complete				Float	t	May 78	Jun 79
11-1640(7)	Facade Structural Frame Erection	90				15-Mar-24		-87			
11-1650(7)	Facade Panels Erection (272pcs. @8pcs/d)	80		0% 20-Jul-24	07-Oct-24			-87			
IWMF Substation		219			A 16-Aug-24			250			
11-1340	Door, Roller Shutter, Windows and Louvers Installation	60				•	17-Oct-24	82			
11-1350 11-1360	Metal Railings, Platforms, Gratings, Cable trench covers Installations Internal Wall and Floor Finishes	90		21% 27-Dec-23 90% 27-Sep-23			22-Apr-25 16-May-24	256 -24			Internal Wall and Flo
11-1370	False ceiling and Raise Floor installation	90		32% 06-Dec-23			16-May-24	-76			
11-1380	External Finishes and Roof Waterproofing	86		10% 06-May-24			22-Apr-25) Update Actual Start Date; Change		
									Relationship from Predecessor		
44 45 (0.4/04/0)				00/ 01 14 04			44.01.04	75	06-8070(6D) from FS0 to FF0		
11-1560-1(M63)	Facade Structural Frame Installation	64		0% 31-May-24	0	14-Aug-24		75			
	Chamber ABWF Works					01-Apr-24		211			
11-1670(7)	Floor, wall and ceiling finishes	30	30	0% 25-Jun-24	25-Jul-24	01-Apr-24	30-Apr-24	-86	6 Changed relation with Predecessor 08-2400(6D) to FS 15		
11-1680(7)	Steel platforms, metal covers, cat ladder and staircase	30	30	0% 25-Jul-24	24-Aug-24	01-May-24	30-May-24	-86	5	-	
11-1690(7)	Roller Shutter installation	30	30	0% 24-Aug-24	23-Sep-24	24-Mar-25	22-Apr-25	211	1		
Building Services	s Installation	343	250	20-May-22	A 04-Feb-25	21-Feb-24	13-Aug-26	555	5		
Administration &	Viewing Gallery Bld BS Works	150	150	09-Aug-24	06-Jan-25	28-May-24	25-Oct-24	-73	3		
12-1030	Electrical and Lighting System	150	150	0% 09-Aug-24	06-Jan-25	29-May-24	25-Oct-24	-73	changed dur to 150d		
12-1040	CCTV & Surveillance System	150	150	0% 09-Aug-24		,			changed dur to 150d		
Process Building	- Waste Bunker & Tipping Hall Bld BS Works	210	210	30-Jun-24	25-Jan-25	29-Mar-24	19-Feb-25	25	5		
12-1060	Plumbing & Drainage System	180	180	0% 30-Jun-24	26-Dec-24	24-Aug-24	19-Feb-25	55	5		
12-1070	MVAC & OCS System	120	120	0% 15-Jul-24	11-Nov-24	09-Jun-24	06-Oct-24	-36	6 Change dur to 120d		
12-1080	Fire Service System (Waste Bunker and Tipping Hall)	180	180	0% 30-Jun-24	26-Dec-24	11-Apr-24	07-Oct-24	-80)		
12-1090	Electrical and Lighting System	180		0% 30-Jun-24		29-Mar-24		-93			
12-1100	Security, Surveillance & Communication System	180		0% 30-Jul-24	25-Jan-25			-93			
Process Building	- Boiler & Flue Gas Bld BS Works	343	192		A 04-Feb-25		Ŭ	555	5		
12-1120	MVAC System	180				,	23-Oct-24	-74			-
12-1140	Electrical and Lighting System	180		18% 18-Oct-23		,		-72			-
12-1150	Security, Surveillance & Communication System	180	169	6% 25-Apr-24	A 15-Jan-25	08-May-24	24-Oct-24	-82	2 Change relation with predecessor 10-1870 to FF+60		-
12-1160	FS Lift & Escalator Installation (Boiler & Flue Gas BId)	180	180	0% 09-Aug-24	04-Feb-25	21-Feb-24	18-Aua-24	-170			
12-1580(6E)	Earthing and Lightning Protection System	180		5% 20-May-22			13-Aug-26	562			
Turbine Hall Bld		151			A 21-Sep-24		-	33			
Electrical Bld BS		150	114	11-Oct-23	A 21-Sep-24	03-Jul-24	24-Oct-24	33	3		
12-1270	Plumbing & Drainage System	60	54			03-Jul-24		33	3		
12-1280	MVAC System	120					19-Aug-24	33			
12-1290	Fire Service System (Electrical Building)	120				21-Aug-24		82			
12-1300	Electrical and Lighting System	120	84	30% 11-Oct-23	A 22-Aug-24	03-Jul-24	24-Sep-24	33	3		
12-1310	Security, Surveillance & Communication System	90	41	54% 25-Feb-24	A 21-Sep-24	13-Sep-24	24-Oct-24	33	3		-
Turbine Hall BS	Works	118	90	11-Oct-23	A 28-Aug-24	10-Jul-24	24-Oct-24	57	7		
12-1320	Plumbing & Drainage System	90	28	68.89% 11-Oct-23	A 27-Jun-24	10-Jul-24	06-Aug-24	40)		
12-1330	MVAC System	90		0% 31-May-24	-			56		_	1
12-1340	Fire Service System (Turbine Hall)	90		0% 31-May-24				40			
12-1350	Electrical and Lighting System	90		68.89% 11-Oct-23				105			
12-1360	Security, Surveillance & Communication System	90		0% 31-May-24	5			57			
	CCW Bld BS Works	192			A 03-Oct-24			21			
12-1370	Plumbing & Drainage System	60		40% 31-Mar-24			02-Aug-24	27			
12-1380 12-1390	MVAC System	120		1% 15-May-24 20% 27-Apr-24			23-Oct-24 07-Oct-24	27			
12-1390	Fire Service System (CCCW Bld) Electrical and Lighting System	120		75% 20-Mar-24			24-Oct-24	111			
12-1400	Security, Surveillance & Communication System	90		69% 20-Mar-24				111			
	ment Plant & Water Treatment Plant Bld BS Works	157			03-Dec-24			-40			
Mechanical Trea		120	120			09-Jun-24		-40)		
12-1420	Plumbing & Drainage System	120		×				-58			
12-1420	MVAC & OCS System	120		0% 05-Aug-24		09-Jun-24		-58			
12-1430	Fire Service System	120		0% 05-Aug-24		23-Jun-24		-44			
12-1460	Security, Surveillance & Communication System	90		0% 05-Aug-24		27-Jul-24		-10			
12-1460-1(6C)	Lift Installation	60		0% 05-Aug-24			18-Aug-24	-47		1	
Water Treatment	t Plant BS Works	120	120	30-Jun-24	27-Oct-24		24-Oct-24	-3	3		
12-1580(7)	Plumbing & Drainage System	120	120	0% 30-Jun-24	27-Oct-24	09-Jun-24	06-Oct-24	-21		1	
12-1590(7)	MVAC & OCS System	120	120	0% 30-Jun-24	27-Oct-24	09-Jun-24	06-Oct-24	-21			
12-1600(7)	Fire Service System	107	107	0% 30-Jun-24	14-Oct-24		07-Oct-24	-7			
12-1610(7)	Electrical and Lighting System	120		0% 30-Jun-24				-3		-	
12-1620(7)	Security, Surveillance & Communication System	90			27-Oct-24			-3			
IWMF Substation		120			A 04-Jul-24			113			
12-1470	Plumbing & Drainage System	90					17-Jun-24	-13			-
12-1480	MVAC System	90					23-Oct-24	116		-	
12-1490	Fire Service System (IWMF Substation)	90					07-Jun-24	-13			-
12-1500	Electrical and Lighting System	90		90% 10-Oct-23			20-Oct-24	113			
12-1510	Security, Surveillance & Communication System	90					24-Oct-24	113			1
	Structure BS Works	90	90	22-Jul-24	19-0Ct-24	26-Jul-24					
		1			40.0						
ACC Equipment \$ 12-1580(5a) 12-1590(5a)	Plumbing & Drainage System MVAC System	60			19-Sep-24 19-Oct-24	22-Dec-24 26-Jul-24		153		_	

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Actual Work

Critical Remaining Work 🔶

	lo. EP/SP/66/12 pcilities, Phase 1	P	表境保護署 invironmental Protection Department
Jun	Jul		Aug
79	80		81
	I		
		Dor	x, Roller Shutter, Windows and Louvers Installation
			Metal Railings, Platforms, Gratings
al Wall and Floor Finishes			
			False ceiling and Raise Floor installation External Finishes and R
			Facade Structural Frame Installation
		Floor, wa	all and ceiling finishes
			Steel plat
L			
•			
		Plumbina &	Drainage System
		VAC System	
	Fir	re Service System (E	Electrical Building)
	mbing 9 Droinogo Custom		
j Più	mbing & Drainage System		M'
	i Internet i sector a Constant		Fi
Ele	ctrical and Lighting System		Se
	Plumbing & Drainage S	ystem	
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	Electrical and Lighting S		atom
	Security, Surveillance &	Communication Sy	
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	Plumbing & Drainage System		
	MVAC System		
	stem (IWMF Substation) Electrical and Lighting System		
	Security, Surveillance & C	Communication Syst	em
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ity ID	Adivity Name	Original	Remaining	Activity % Current Start	Current Finis	h Late Start	Late Finish		M78 Remarks		
		Duration	Duration	Complete				Float	t	May 78	Jun 79
12-1600(5a)	Fire Service System (Equipment/Appliance)	60	60	0% 22-Jul-24		09-Aug-24		18			
12-1610(5a)	Electrical and Lighting System	60	60	0% 22-Jul-24		21-Oct-24		91			
12-1620(5a)	Security, Surveillance & Communication System	60	60	0% 22-Jul-24		26-Aug-24		35			
	Chamber BS Works	90	90	25-Jul-24		20-May-24		1			
12-1630(7)	Plumbing & Drainage System	60	60	0% 25-Jul-24		20-May-24		-67			
12-1640(7)	MVAC System	60	60	0% 25-Jul-24		25-Aug-24		30			
12-1650(7)	Fire Service System (Equipment/Appliance)	60	60	0% 25-Jul-24		09-Aug-24		14			
12-1660(7)	Electrical and Lighting System Security, Surveillance & Communication System	60	60 60	0% 25-Jul-24		20-May-24	_	-67			
12-1670(7)		417	00 181			26-Aug-24	24-0ct-24 21-0ct-24	-37			
Process Equipme											
	- Waste Bunker & Tipping Hall Bld Process Equipment Installation	356	165	01-Mar-23 A				-36			
Equipment, Pipin	ng and Instrument Installation and Connection Works	317	165	20-Sep-23 A	11-Nov-24	12-Dec-23	23-Jul-24	-111			
Process Building	g (Module 1)	144	144	31-May-24	21-Oct-24	18-Dec-23	09-May-24	-165	5		
12-3010(6F)	Piping Installation Works	90	90	0% 31-May-24	28-Aug-24	18-Dec-23	16-Mar-24	-165	Remove Actual Start Date; Update Original		
									Duration from 120 to 90		
12-3020(6F)	Pipe Testing	60	60	0% 24-Jul-24			09-Apr-24				
12-3030(6F)	Piping Insulation Works	60	60	, v	21-Oct-24		09-May-24		Changed relation to 16-1540 to FF+0		
Process Building		141	128	02-Jan-24 A							
12-3040(6F)	Embedded Piping Installation	60	18	70% 02-Jan-24 A			10-Mar-24				
12-3050(6F)	Piping Installation Works	90	90	0% 12-Jun-24	09-Sep-24	15-Jan-24	13-Apr-24		Remove Actual Start Date; Update Original Duration from 120 to 90		
12-3060(6F)	Pipe Testing	60	60	0% 07-Aug-24	05-Oct-24	11-Mar-24	09-May-24				
12-3075(M71)	Equipment Installation at Bassin Area at +6.5mPD (included Boiler Drainage Tanks)	120	120	0% 31-May-24			,	-171			
Process Building		129	90	05-Feb-24 A				-111			
12-3080(6F)	Embedded Piping Installation	60	51	15% 05-Feb-24 A			23-Jun-24	-102			
12-3090(6F)	Piping Installation Works	90	90	0% 14-Aug-24		-			Remove Actual Start Date; Update Original		
				5					Duration from 120 to 90		
Process Building	g (WWTP)	60	60	20-Sep-23 A	02-Aug-24	05-Apr-24	04-Jun-24	-59			
12-3160(6F)	Embedded Piping Installation	60	60	0% 20-Sep-23 A	02-Aug-24	05-Apr-24	04-Jun-24	-59)		
Ash Treatment E	Equipment (Module 1)	120	60	10-Mar-24 A	29-Jul-24	10-Feb-24	09-Apr-24	-111			
12-4000(6G_R1)	Deliver and installation of Ash Treatment Equipments	120	60	50% 10-Mar-24 A	29-Jul-24	10-Feb-24	09-Apr-24	-111			
Ash Treatment E	Equipment (Module 2)	120	120	31-May-24	27-Sep-24	11-Mar-24	08-Jul-24	-81			
12-4010(6G_R1)	Deliver and installation of Ash Treatment Equipments	120	120	0% 31-May-24	27-Sep-24	11-Mar-24	08-Jul-24	-81	Removed predecessor 10-1260, added		
									predecessor 10-1250 FS+14		
Ash Treatment E	Equipment (Module 3)	120	120	29-Jun-24	26-Oct-24	03-Jan-24	01-May-24	-178	3		
12-4020(6G_R1)	Deliver and installation of Ash Treatment Equipments	120	120	0% 29-Jun-24	26-Oct-24	03-Jan-24	01-May-24	-178	Removed predecessor 10-1370, added		
									predecessor 10-1360 FS+14		
Process Building	g (Cranes and Shredder)	186	156	15-Mar-24 A	02-Nov-24		06-Oct-24	-27			
Process Building	g (Module 1)	165	135	15-Mar-24 A	12-Oct-24	10-Feb-24	06-Oct-24	-6			
13-1000-1(6)	Ash Crane Installation @+15.3mPD	70	60	15% 30-Apr-24 A	29-Jul-24	29-Jun-24	27-Aug-24	29			
13-1000-2(6)	Shredder Installation	60	60			10-Feb-24			Changed dur to 60d		
13-1000-3(6)	Hoist Installation	70	70	0% 30-Jun-24		29-Jul-24		29			_
13-1000-5(6B)	EOTC & Monorail Hoist System installation in Waste Crane Control Room (+33.5 & 36.5mPD)	70	70		- ·	29-Jul-24		36			
13-1000-6(6B)	EOTC & Monorail Hoist System installation in Ash Crane Control Room (+15.8mPD & +19.9mPD)	70	70	0% 31-May-24		29-Jul-24		59			
13-1000-7(6B)	EOTC & Monorail Hoist System installation in Mechanical Shredder Area +28.5mPD	70 60	70 60	•	12-Oct-24		06-Oct-24	-6 -76			
13-1000-8(6B) 13-1000-9(6B)	Monorail Hoist System installation in CCR Electrical Switch room +13.75mPD Monorail Hoist System installation in CCR Electrical Switch room +23mPD	60	60	0% 04-Aug-24 0% 30-Jun-24	02-Oct-24	20-May-24 20-May-24			removed predecessor 11-1060		
13-1010(6B)	EOTC Hoist System Installation in Main Workshop & Store +15.3mPD	60	24	60% 15-Mar-24 A	-	13-Sep-24		105			
Process Building		139	139	31-May-24		31-Mar-24		-10			
13-1004-1(M71)	Ash Crane Installation @+15.3mPD	70	70	0% 31-May-24			06-Sep-24	29			
13-1004-1(M71)	Shredder Installation	70	70	0% 08-Aug-24		31-Mar-24	· · ·	-130			
13-1004-3(M71)	Hoist Installation	70	70	0% 28-Jul-24	05-Oct-24	29-Jul-24	06-Oct-24	1			
13-1004-5(M71)	EOTC & Monorail Hoist System installation in Waste Crane Control Room (+33.5 & 36.5mPD)	70	70	0% 01-Aug-24	09-Oct-24	29-Jul-24	06-Oct-24	-3			
13-1004-6(M71)	EOTC & Monorail Hoist System installation in Ash Crane Control Room (+15.8mPD & +19.9mPD)	70	70	0% 16-Jun-24	24-Aug-24		06-Oct-24	43			
13-1004-7(M71)	EOTC & Monorail Hoist System installation in Mechanical Shredder Area +28.5mPD	70	70	0% 11-Jul-24	-	29-Jul-24	06-Oct-24	18	3		
Process Building		126	126	30-Jun-24	02-Nov-24	16-Mar-24	06-Oct-24	-27	1		
13-1008-1(M71)	Ash Crane Installation @+15.3mPD	70	70	0% 30-Jun-24	07-Sep-24	29-Jul-24	06-Oct-24	29			
13-1008-2(7)	Shredder Installation	70	70	0% 25-Aug-24	02-Nov-24			-162			
13-1008-3(M71)	Hoist Installation	70	70	0% 11-Aug-24	19-Oct-24	29-Jul-24	06-Oct-24	-13	8		
	EOTC & Monorall Hoist System installation in Mechanical Shredder Area +28.5mPD	70	70	0% 11-Aug-24	19-Oct-24	29-Jul-24	06-Oct-24	-13	3		
13-1008-7(7)	n (WWTP)	200	150	01-Mar-23 A	31-Oct-24	27-Feb-24	25-Jul-24	-97	,		
13-1008-7(7) Process Building	J ()	120	112	7% 01-Mar-23 A	31-Oct-24	05-Apr-24	25-Jul-24	-97			
	WWTP Piping and instrument installation			00/ 00 1104	31-Oct-24	28-Mar-24	25-Jul-24	-97	,		
Process Building		120	120	0% 03-Jul-24			0.0.1.0.1	07	1	· · · · · · · · · · · · · · · · · · ·	1
Process Building 13-1010-1(6) 13-1010-2(6)	WWTP Piping and instrument installation		120 120	0% 03-Jui-24 03-Jun-24	01-Oct-24	27-Feb-24	25-Jun-24	-97			
Process Building 13-1010-1(6) 13-1010-2(6)	WWTP Piping and instrument installation WWTP Electrical Equipment installation & Cable pulling and termination	120			01-Oct-24 01-Oct-24		25-Jun-24 25-Jun-24	-97	Changed relation with 10-3070-4(M63) to		
Process Building 13-1010-1(6) 13-1010-2(6) WWTP Mechanic 13-1010-12(M63)	WWTP Piping and instrument installation WWTP Electrical Equipment installation & Cable pulling and termination cal equipment installation Equipments for Bio-Tank Area @+3.3mPd	120 120 120	120 120	03-Jun-24 0% 03-Jun-24	01-Oct-24	27-Feb-24	25-Jun-24	-97	Changed relation with 10-3070-4(M63) to FS+20		
Process Building 13-1010-1(6) 13-1010-2(6) WWTP Mechanic	WWTP Piping and instrument installation WWTP Electrical Equipment installation & Cable pulling and termination cal equipment installation	120 120	120	03-Jun-24			25-Jun-24	-97	Changed relation with 10-3070-4(M63) to FS+20 Changed relation with 10-3070-4(M63) to		
With the second secon	WWTP Piping and instrument installation WWTP Electrical Equipment installation & Cable pulling and termination cal equipment installation Equipments for Bio-Tank Area @+3.3mPd Equipments for Centrate Area, Inlet Sump & EQ Tank Area @+2.0mPd	120 120 120 120	120 120 120	03-Jun-24 0% 03-Jun-24 0% 03-Jun-24	01-Oct-24 01-Oct-24	27-Feb-24 27-Feb-24	25-Jun-24 25-Jun-24	-97 -97	Changed relation with 10-3070-4(M63) to FS+20 Changed relation with 10-3070-4(M63) to FS+20		
Process Building 13-1010-1(6) 13-1010-2(6) WWTP Mechanic 13-1010-12(M63) 13-1010-13(M63) 13-1010-5(6B)	WWTP Piping and instrument installation WWTP Electrical Equipment installation & Cable pulling and termination cal equipment installation Equipments for Bio-Tank Area @+3.3mPd Equipments for Centrate Area, Inlet Sump & EQ Tank Area @+2.0mPd EOTC Hoist System installation in WWTP +6.5	120 120 120 120 120 60	120 120 120 60	03-Jun-24 0% 03-Jun-24 0% 03-Jun-24 0% 13-Jun-24	01-Oct-24 01-Oct-24 12-Aug-24	27-Feb-24 27-Feb-24 28-Mar-24	25-Jun-24 25-Jun-24 26-May-24	-97 -97 -77	Changed relation with 10-3070-4(M63) to FS+20 Changed relation with 10-3070-4(M63) to FS+20		
With the second secon	WWTP Piping and instrument installation WWTP Electrical Equipment installation & Cable pulling and termination cal equipment installation Equipments for Bio-Tank Area @+3.3mPd Equipments for Centrate Area, Inlet Sump & EQ Tank Area @+2.0mPd EOTC Hoist System installation in WWTP +6.5 Monorail Hoist System installation in WWTP +10mPD & +13.3mPD	120 120 120 120 120 60 60	120 120 120 60 60	03-Jun-24 0% 03-Jun-24 0% 03-Jun-24 0% 13-Jun-24 0% 30-Jun-24	01-Oct-24 01-Oct-24 12-Aug-24 28-Aug-24	27-Feb-24 27-Feb-24 28-Mar-24 28-Mar-24	25-Jun-24 25-Jun-24 26-May-24 26-May-24	-97 -97 -77 -94	Changed relation with 10-3070-4(M63) to FS+20 Changed relation with 10-3070-4(M63) to FS+20		
Process Building 13-1010-1(6) 13-1010-2(6) WWTP Mechanic 13-1010-12(M63) 13-1010-13(M63) 13-1010-5(6B) 13-1010-6(6B) 13-1010-7(6B)	WWTP Piping and instrument installation WWTP Electrical Equipment installation & Cable pulling and termination cal equipment installation Equipments for Bio-Tank Area @+3.3mPd Equipments for Centrate Area, Inlet Sump & EQ Tank Area @+2.0mPd EOTC Hoist System installation in WWTP +6.5 Monorail Hoist System installation in WWTP +10mPD & +13.3mPD LVSG 6A/6B @ WWTP Switch room +13.3mPD	120 120 120 120 60 60 60	120 120 120 60 60 60	03-Jun-24 0% 03-Jun-24 0% 03-Jun-24 0% 13-Jun-24 0% 30-Jun-24 0% 13-Jun-24 0% 13-Jun-24	01-Oct-24 01-Oct-24 12-Aug-24 28-Aug-24 12-Aug-24	27-Feb-24 27-Feb-24 28-Mar-24 28-Mar-24 28-Mar-24	25-Jun-24 25-Jun-24 26-May-24 26-May-24 26-May-24	-97 -97 -77 -94 -77	Changed relation with 10-3070-4(M63) to FS+20 Changed relation with 10-3070-4(M63) to FS+20		
With the second secon	WWTP Piping and instrument installation WWTP Electrical Equipment installation & Cable pulling and termination cal equipment installation Equipments for Bio-Tank Area @+3.3mPd Equipments for Centrate Area, Inlet Sump & EQ Tank Area @+2.0mPd EOTC Hoist System installation in WWTP +6.5 Monorail Hoist System installation in WWTP +10mPD & +13.3mPD	120 120 120 120 120 60 60	120 120 120 60 60	03-Jun-24 0% 03-Jun-24 0% 03-Jun-24 0% 13-Jun-24 0% 30-Jun-24	01-Oct-24 01-Oct-24 12-Aug-24 28-Aug-24	27-Feb-24 27-Feb-24 28-Mar-24 28-Mar-24 28-Mar-24	25-Jun-24 25-Jun-24 26-May-24 26-May-24 26-May-24 26-May-24	-97 -97 -77 -94 -77 -77	Changed relation with 10-3070-4(M63) to FS+20 Changed relation with 10-3070-4(M63) to FS+20		

3-Month Rolling Programme (May 2024) PAGE 12 OF 16

Actual Work Remaining Work

Critical Remaining Work 🔶 ♦ Milestone

Critical

Management Fa	lo. EP/SP/66/12 pcilities, Phase 1	R	表現保護署 Invironmental Protection Department
Jun	J24 Jul		Aug
79	80		81
			Pi
	Embedded Piping Installation		
	· · · · · · · · · · · · · · · · · · ·		,
			Embedded Piping Installation
			aliver and installation of Ash Treatment Equipments
	1 		eliver and installation of Ash Treatment Equipments
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	· ·		
		A	sh Crane Installation @+15.3mPD
			EOTC & Monorail Hoist System instal
	th Constant Installation in Main Word		M
EUTC Hor	st System installation in Main Work	snop & Store +15.3	mPD
			Ash Crane Installation @+15.3mPD
			EOTC &
C			
	÷		
	4 1 1		
			EOTC Hoist System installation
			M
	+ 		LVSG 6A/6B @ WWTP Switch
	1 1		UPS DB @ WWTP Switch roor
Actrual Milestor			
 Critical Mileston 	e		

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	Adivity Name	Duration [Duration	Activity % Current Start Complete	ounone r me	h Late Start	Late Finish	Total M78 Remarks Float	May 78	Jun 79
13-1030(6F)	Equipment Installation for MBR Tank, DAF & Chemical Tank Area @+10.0mPd	60	60	0% 30-Jun-24	28-Aug-24	28-Mar-24	26-May-24		10	19
13-1040(6F)	Equipment for Pretreatment, Chemical Tank, RO, MBR, AQP, MCC & Control Area @+12.5mPd	60	60	0% 13-Jun-24	12-Aug-24		26-May-24	-77		
v .	(Central Control System Installation)	139	139	12-Jun-24	28-Oct-24		01-Aug-24	-88	_	
13-1010-3(6B)	Mechanical equipment installation (Control Room 2 +36.5mPD)	128	128	0% 12-Jun-24	17-Oct-24	27-Mar-24	01-Aug-24	-77 Change predecessor from 10-1190 to 101170 FS+14, change dur to 1		-
13-1980	Control Systems Installation at CCR	90	90	0% 15-Jul-24	12-Oct-24	20-Apr-24	18-Jul-24	-86 Changed relation with 16-1780 to FS+0	_	
13-1990	Cable laying and Termination	90	90	0% 15-Jul-24	12-Oct-24	· ·	18-Jul-24	-86 Changed relation with 16-1780 to FS+0		
13-2160(6B)	DCS Installation	90	90	0% 15-Jul-24	12-Oct-24	· ·	18-Jul-24	-86 Changed relation with 16-1780 to FS+0		
13-2210(6B) 13-2260(6B)	CMMS Installation IDMS installation	90 90	90 90	0% 15-Jul-24 0% 15-Jul-24	12-Oct-24 12-Oct-24		18-Jul-24 18-Jul-24	-86 Changed relation with 16-1780 to FS+0 -86 Changed relation with 16-1780 to FS+0	_	
13-2200(6B) 13-2270(6B)	OMS Installation	90	90 90	0% 15-Jul-24	12-Oct-24		18-Jul-24	-86 Changed relation with 16-1780 to FS+0	_	
13-2280(6D)	Monorail Hoist System installation in CCR Electrical Switch room +13.75mPD	90	90	0% 31-Jul-24	28-Oct-24	· ·	18-Jul-24	-102		
Process Building (122	122	24-Jun-24	23-Oct-24		18-Jul-24	-97		
13-1000-4(6B)	Waste Crane Switch room E&I Equipment installation @+29.5mPd, inclusive of Control Chair and Junction box in WCCR	60	60	0% 12-Jul-24	09-Sep-24	20-May-24	18-Jul-24	-53		
13-1010-4(6B)	Mechanical equipment installation (Switch Room +28.25mPD)	120	120	0% 26-Jun-24	23-Oct-24	21-Mar-24	18-Jul-24	-97 Change duration to 120		
13-2280(6B)	Transformer @ Process Bldg. switch room x4 Nos. @+13.3 mPD	90	90	0% 15-Jul-24	12-Oct-24	· ·	18-Jul-24	-86	_	
13-2280-1(6B) 13-2280-2(6B)	LVSG 1A/1B and 2A/2B (below Toilet/Server Room - Process building Switch room) UPS @ Process Building Switch room and Battery room	90 90	90 90	0% 12-Jul-24 0% 24-Jun-24	09-Oct-24 21-Sep-24		18-Jul-24 18-Jul-24	-83		
	Boiler House & Flue Gas Treatment Bld Process Equipment Installation	393	180	15-Aug-23 A				-36		
	(Installation TPU Module)	393	180	15-Aug-23 A				-39		
TPU Train 1		348	135	15-Aug-23 A			30-Sep-24	-12		
13-1040	Boiler Condition Check and Repair	70	70	0% 07-Jul-24	12-Oct-24 14-Sep-24		30-Sep-24			
13-1040	Remaining Equipment Installation at GL	120	70	95% 15-Aug-23 A	· ·		30-Sep-24 13-Dec-23			Remaining Equipment Installation at GL
13-1060	Pipe Connection to FGT Unit	120	17	86% 01-Dec-23 A			24-Dec-23	-175		Pipe Connection to
13-1070	Pipe Insulation Works	60	60	0% 16-Jun-24	15-Aug-24		09-Apr-24	-128		
13-1080	Electrical instrument and Cabling Works	67	67	0% 25-Jun-24	30-Aug-24		10-Mar-24	-173		
13-1090	Boiler Pressure Test	15	15	0% 30-Jun-24	14-Jul-24		09-May-24	-66	-	
13-1100	Boiler Refractory works	90	90	0% 15-Jul-24	12-Oct-24		30-Sep-24			
TPU Train 2		363	150	15-Aug-23 A			30-Sep-24			
13-1130 13-1140	Boiler Condition Check and Repair Remaining Equipment Installation at GL	70 120	70	0% 22-Jul-24 95% 15-Aug-23 A	29-Sep-24		30-Sep-24 10-Dec-23	-178		Remaining Equipment Installation at GL
13-1140	Pipe Connection to FGT Unit	120	17	95% 15-Aug-23 A 86% 01-Dec-23 A			09-Feb-24	-178		Pipe Connection to
13-1160	Pipe Insulation Works	60	60	0% 16-Jun-24	15-Aug-24		09-Apr-24	-128		
13-1170	Electrical instrument and Cabling Works	90	90	0% 07-Jun-24	04-Sep-24		10-Mar-24	-178 Changed relation with 13-1655(6A) to		
								FF+60		
13-1180	Boiler Pressure Test	15	15	0% 15-Jul-24	29-Jul-24		24-May-24			
13-1190	Boiler Refractory works	90 257	90 165	0% 30-Jul-24 27-Nov-23 A	27-Oct-24		30-Sep-24 18-Oct-24	-27 -24		
TPU Train 3 13-1220	Boiler Condition Check and Repair	71	71	0% 06-Aug-24	15-Oct-24		18-Oct-24	3		
13-1220	Remaining Equipment Installation at GL	121	8	93% 27-Nov-23 A		· ·	11-Jan-24	-149		Remaining Equipment Installation
13-1240	Pipe Connection to FGT Unit	121	42	65% 12-Jan-24 A			10-Mar-24	-123		
13-1250	Pipe Insulation Works	120	108	10% 20-Jan-24 A	15-Sep-24	03-Jul-24	18-Oct-24	33		
13-1260	Electrical instrument and Cabling Works	90	90	0% 14-Jul-24	11-Oct-24		28-Apr-24	-166		
13-1270	Boiler Pressure Test	15	15	0% 30-Jul-24	-	25-May-24		-66		
13-1280	Boiler Refractory works	90	90	0% 14-Aug-24				-24		
TPU Train 4	Dailor Candilian Charle and Danois	255	180	27-Nov-23 A		02-Jan-24		-39		
13-1310 13-1320	Boiler Condition Check and Repair Remaining Equipment Installation at GL	70 120	70	0% 21-Aug-24 93% 27-Nov-23 A		-	18-Oct-24 10-Jan-24	-11 -149		Remaining Equipment Installation
13-1330	Pipe Connection to FGT Unit	120	42	65% 12-Jan-24 A			10-Mar-24	-149		
13-1340	Pipe Insulation Works	120	120	0% 31-May-24		21-Jun-24		21		
13-1350	Electrical instrument and Cabling Works	90	90	0% 14-Jul-24	11-Oct-24	30-Jan-24	28-Apr-24	-166		
13-1360	Boiler Pressure Test	15	15	0% 14-Aug-24	28-Aug-24		23-Jun-24	-66		
13-1370	Boiler Refractory works	90	90	•	26-Nov-24	21-Jul-24		-39		
TPU Train 5		225	164	27-Mar-24 A				-110		Remaining Equipment Install
13-1500	Remaining Equipment Installation at GL	120	12	90% 31-Mar-24 A			29-Feb-24	-103		Remaining Equipment Instan
13-1510 13-1520	Pipe Connection to FGT Unit Pipe Insulation Works	120 120	72 120	40% 27-Mar-24 A 0% 31-May-24	· ·		10-Apr-24 24-May-24	-122 -126	_	
13-1530	Electrical instrument and Cabling Works	90	90	0% 13-Aug-24	10-Nov-24		23-Jul-24	-110	_	
13-1540	Boiler Pressure Test	15	15	0% 29-Aug-24	12-Sep-24	24-Jun-24		-66	-	
TPU Train 6		256	164	22-Dec-23 A	10-Nov-24	23-Jan-24	24-May-24	-170		
13-1395(M63)-2	TPU-6 Welding to Base Plate	20	1	95.84% 22-Dec-23 A	31-May-24	23-Jan-24	23-Jan-24	-129		TPU-6 Welding to Base Plate
13-1410	Remaining Equipment Installation at GL	120	12	90% 31-Mar-24 A	12-Jun-24	24-Jan-24	04-Feb-24	-129		Remaining Equipment Insta
13-1420	Pipe Connection to FGT Unit	120	72	40% 28-Mar-24 A	-		04-Apr-24	-129		
13-1430	Pipe Insulation Works	120	120	0% 31-May-24			24-May-24			
13-1440	Electrical instrument and Cabling Works	90 377	90 164	0% 13-Aug-24 15-Aug-23 A			24-May-24			
0	(Installation of Flue Gas Module)			•						
FGC Train 1	ECC Linit Condition Check and Danair	308	95	15-Aug-23 A			30-Sep-24	29 E2 Domouro Successor 14 1E40 ES 2: Add		1
13-1580	FGC Unit Condition Check and Repair	70	70	0% 31-May-24	uo-Aug-24	∠3-Jul-24	30-Sep-24	53 Remove Successor 16-1540 FS-3; Add Successor 16-1660 FS0		
13-1590	Remaining Equipment Installation at GL	90	5	95% 15-Aug-23 A	04-Jun-24	07-Dec-23	11-Dec-23			Remaining Equipment Installation at GL
13-1600	Pipe Connection Works to TPU and Pipebridge	90	13	86% 01-Dec-23 A	16-Jun-24	12-Dec-23	24-Dec-23	-175		Pipe Connection Wo
13-1610	Pipe Insulation Works	90	90	0% 31-May-24	28-Aug-24	12-Dec-23	10-Mar-24	-171 Remove successor 16-1660, changed		1
13-1620	Electrical instrument and Cabling Works	90	90	0% 04-Jun-24	02-Sep-24	12-Dec-22	10-Mar-24	relation with 16-1540 to FF+60 -176 Changed relation with 13-1655(6A) to	-	
10-1020		70	70	070 04-Juli-24	02-35µ-24	12"DCL-23	ro-Indi-24	FF+60, Changed relation with 13-1655(6A) to		

Contract No. EP/SP/66/12 agement Facilities, Phase 1



2024	Jul 80	Aug 81
		Equipment for Pretreatment, C
_		
lation at GL nection to FGT Unit		
		Pipe Insulation Works
	Boiler Pressure Te	ist
lation at GL		
nection to FGT Unit		Pipe Insulation Works
		Boiler Pressure Test
nstallation at GL	Pipe Connection to FG	:T Unit
		Boiler Pressure Test
nstallation at GL		Pipe Connection to FGT Unit
		B
nent Installation at GL		
		Pipe Connection to FGT Unit
oment Installation at GL		
		Pipe Connection to FGT Unit
		FGC Unit Condition Check and Repa
ion at GL		
nection Works to TPU and	Pipebridge	Pi
Milestone		

古 省 西 格) KEPMILSDGHIDE	新一株単原社会 将 6- ZHEN HUA MONT VENTURE									Integ	grated Waste Managem
tivity ID	Adivity Name	Original Duration	Remaining Duration	Activity % Current Start Complete	Current Finish	1 Late Start	Late Finish	Total Float	I M78 Remarks	May 78	Jun 79
FGC Train 2		308	95				30-Sep-24	29			
13-1650	FGC Unit Condition Check and Repair	70	70	0% 31-May-24	08-Aug-24	23-JUI-24	30-Sep-24	53	8 Remove Successor 16-1540 FS-3; Add Successor 16-1660 FS0		
13-1655(6A)	Installation 4 nos. of Transformers for Process Module 1	14			29-Jun-24		10-Jan-24	-171			Remaining Equipment Installati
13-1660 13-1670	Remaining Equipment Installation at GL Pipe Connection Works to TPU and Pipebridge	90	5	95% 15-Aug-23 A 86% 01-Jan-24 A			11-Dec-23 13-Feb-24	-176 -142			
13-1680	Pipe Insulation Works	90	90				10-Mar-24		1 changed relation with 16-1540 to FF+60		
13-1690	Electrical instrument and Cabling Works	90	90	0% 04-Jun-24	02-Sep-24	12-Dec-23	10-Mar-24	-176	5 Changed relation with 13-1655(6A) to FF+60		
FGC Train 3		201	134	31-Dec-23 A	11-Oct-24	10-Jan-24	18-Oct-24	7			
13-1720	FGC Unit Condition Check and Repair	70	70	0% 31-May-24	08-Aug-24	10-Aug-24	18-Oct-24	71	Remove Successor 16-1560 FS0; Add		
13-1730	Remaining Equipment Installation at GL	90	6	93% 31-Dec-23 A	06- lun-24	23- Jan-24	29-Jan-24	-128	Successor 16-1720 FS0		Remaining Equipment Insta
13-1740	Pipe Connection Works to TPU and Pipebridge	90	32				10-Mar-24		3 Update Actual Start Date		
13-1750	Pipe Insulation Works	90	90		•		09-Apr-24	-141			
13-1760 FGC Train 4	Electrical instrument and Cabling Works	90 226	90 134		11-Oct-24 11-Oct-24		09-May-24 18-Oct-24	-155			
13-1790	FGC Unit Condition Check and Repair	70	70		08-Aug-24		18-Oct-24	71	Remove Successor 16-1560 FS0; Add		
									Successor 16-1720 FS0		
13-1795(6A) 13-1800	Installation 4 nos. of Transformers for Process Module 2 Remaining Equipment Installation at GL	14	14	0% 30-Jun-24 93% 31-Dec-23 A	13-Jul-24 06-Jun-24		29-Jan-24 29-Jan-24	-166 -128	3		Remaining Equipment Insta
13-1810	Pipe Connection Works to TPU and Pipebridge	90	32		07-Aug-24		10-Mar-24	-120			
13-1820	Pipe Insulation Works	90	90				09-Apr-24	-149			
13-1830	Electrical instrument and Cabling Works	90 256	90 164		11-Oct-24 10-Nov-24		09-May-24	-155 -20			
FGC Train 5 13-1855(M63)-1	Removal of Temporary Steel from Prefab from FGC-5	14	7	50% 10-Feb-24 A			07-Jan-24	-151			Removal of Temporary Stee
13-1860	FGC Unit Condition Check and Repair	70	70				21-Oct-24		Remove Successor 16-1580 FS0; Add		
12 1070	Demoising Fouriement Installation at CL	90	0	00% 15 Mar 24 A	00 km 24	14 Eab 24	24 Eab 24	-105	Successor 16-1750 FS0		Remaining Equipment Ir
13-1870 13-1880	Remaining Equipment Installation at GL Pipe Connection Works to TPU and Pipebridge	90	54	90% 15-Mar-24 A 40% 15-May-24 A			24-Feb-24 04-Apr-24		9 Update Actual Start Date		
13-1890	Pipe Insulation Works	90	90	,	•		24-May-24	-109			
13-1900	Electrical instrument and Cabling Works	90	90	5			24-May-24	-170			
FGC Train 6 13-1925(M63)-1	Removal of Temporary Steel from Prefab from FGC-6	225	164 2				02-Jan-24	-20 -151			Removal of Temporary Steel from Pr
13-1930	FGC Unit Condition Check and Repair	70	70		08-Aug-24		21-Oct-24		4 Remove Successor 16-1580 FS0; Add		
12 1025/(A)	Installation data of Terra formation for Descent Markels (2	14	14	00/ 00 1-104	10 4 04	11 5-6 04	04 E-h 04	170	Successor 16-1750 FS0		
13-1935(6A) 13-1940	Installation 4 nos. of Transformers for Process Module 3 Remaining Equipment Installation at GL	14	14	0% 30-Jul-24 90% 31-Mar-24 A			24-Feb-24 24-Feb-24	-170 -105			Remaining Equipment Ir
13-1950	Pipe Connection Works to TPU and Pipebridge	90	54				10-Apr-24	-122			
13-1960	Pipe Insulation Works	90	90				24-May-24	-103			
13-1970 ACC Equipment Ir	Electrical instrument and Cabling Works	90	90 181	and a system			24-May-24 06-Oct-24				
ACC Equipment		124	124		01-Oct-24			5			
13-2000-1(M63)	Condensate Tank & Equipments Delivery and installation (Module 1)	80	52					-66	5 Update Actual Start Date		
13-2010	Piping and Instrument Installation and Connection Works	80	80				07-Aug-24	-25			
13-2020 13-2030	Pipe Insulation Works Cable Laying and Termination Works	80	80 80	0% 14-Jul-24 0% 14-Jul-24		19-Jul-24 19-Jul-24	06-Oct-24 06-Oct-24	5			
ACC Equipment		120	120				25-Aug-24	-70			
13-2040-1(M63)	Condensate Tank & Equipments Delivery and installation (Module 2)	90	90	0% 07-Jul-24	04-Oct-24	07-Apr-24	05-Jul-24	-91	1		
13-2050	Piping and Instrument Installation and Connection Works	90	90	5		-	25-Aug-24	-70			
ACC Equipment		120	120				28-Aug-24	-91			
13-2080-1(M63)	Condensate Tank & Equipments Delivery and installation (Module 3)	90	90	0% 31-Jul-24	28-Oct-24	01-1Vlay-24	29-Jul-24	-91	1 Change relation with 13-2040-1((M63) to SS+24		
13-2090	Piping and Instrument Installation and Connection Works	90	90	ů			28-Aug-24	-91			
	Equipment Installation	188	157					-108			
13-2120-3(7)	Jule 1 Installation STG Module 1 unpack and assembly	109 30	108	26-Mar-24 A 40% 26-Mar-24 A			11-May-24 02-Feb-24				STG Mo
13-2120-3(7)	Equipment, Piping and Instrument Installation and Connection Works	60	60		16-Aug-24		02-1eb-24 02-Apr-24	-136			
13-2130-1(6E)	STG & TBS Piping hydrostatic test	7	7	0% 17-Aug-24	23-Aug-24	03-Apr-24	09-Apr-24	-136	6		
13-2140	Turbine Hall Piping Insulation Works	60 90	60 90				11-May-24	-127 -127	7 Removed successor 16-1660		
13-2150	Turbine Electrical installation and instrumentation Works dule 2 Installation	90	90				11-May-24 10-Jun-24				
13-2170	STG Module 2 transport to final position	7	7	0% 31-May-24	06-Jun-24	13-Dec-23	19-Dec-23	-170)		STG Module 2 transport to f
13-2170-1(11)	TBS Tower 2 Delivery	0	0	0%	28-Jun-24		21-Mar-24	-99			
13-2170-1(6H) 13-2170-2(7)	TBS Tower 2 transport to final position Install temporary external enclosure for STG unpacking and assembly	8 30	8	0% 29-Jun-24 0% 07-Jun-24	06-Jul-24 06-Jul-24		30-Mar-24 18-Jan-24	-98 -170	3		
13-2170-2(7)	STG Module 2 unpack and assembly	30	30				18-Jan-24 17-Feb-24	-170			
13-2180	Equipment, Piping and Instrument Installation and Connection Works	60	60	0% 06-Aug-24	04-Oct-24	18-Feb-24	17-Apr-24	-170)		
13-2200	Turbine Electrical installation and instrumentation Works	90	90	0% 07-Jul-24	04-Oct-24	13-Mar-24	10-Jun-24	-116	6 Changed dur to 90d, add predecessor 13-2180		
13-2210(6)	Install Maintenance Girder & Crane at Module 2 @+22.247mPd	21	16	25% 30-Apr-24 A	15-Jun-24	13-Dec-23	28-Dec-23	-170			Install Mainte
Turbine Hall Mod	dule 3 Installation	157	157	31-May-24	03-Nov-24	27-Dec-23	13-Jun-24	-143	3		
13-2220	STG Module 3 transport to final position	7	7	0% 05-Jun-24		01-Jan-24	07-Jan-24		6 Remove Predecessor 06-4480(6) SS-1		STG Module 3 trans
13-2220-1(11) 13-2220-1(6H)	TBS Tower 3 Delivery TBS Tower 3 Transport to final position	0	0	0% 0% 29-Jun-24	28-Jun-24 06-Jul-24	08- Ian 24	07-Jan-24 15-Jan-24	-173 -173	Remove Predecessor 13-2220 FS0		
10 2220-1(01)		0	0	570 27-JUII-24	00 Jui-24	00-301-24	13-301-24	- 113			i

3-Month Rolling Programme (May 2024)	
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Critical Remaining Work 🔶 •

Critical Milestone

Contract N Management Fa	lo. EP/SP/66/12 cilities, Phase 1	P	表境保護署 invironmental Protection Department
20 	Jul 80		Aug 81
quipment Installation at GL	nstallation 4 nos. of Transformers		e
			Pi
g Equipment Installation at GL	Pipe Conne	ection Works to TPU	FGC Unit Condition Check and Repai
g Equipment Installation at GL	Installatio	on 4 nos. of Transfor	FGC Unit Condition Check and Repai mers for Process Module 2 Pipe Connection Works to TPU and Pip
of Temporary Steel from Prefa	from FGC-5		FGC Unit Condition Check and Repai
aining Equipment Installation at	GL		Pipe Connection Works to TPU ;
oorary Steel from Prefab from F(ŞC-6		FGC Unit Condition Check and Repai
aining Equipment Installation at	GL		Installation 4 nos. of Transform Pipe Connection Works to TPU ar
		Condensate Ta	k & Equipments Delivery and installation (Module 1)
STG Module 1 unpad	k and assembly		Equipment, Piping and STG & TB
dule 2 transport to final position	BS Tower 2 Delivery TBS Tower 2 transpor		G unpacking and assembly STG Module 2 unpack and assembly
STG Module 3 transport to final	er & Crane al Module 2 @+22.247 position BS Tower 3 Delivery TBS Tower 3 Transpo		
Actrual Milestor	ie		

Keppel Seghers	N
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KEPHE SEGHERS-ZHEN HUADINT VES	राज्यस

PAGE 15 OF 16

Integrated	11/	1 1
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				-								rated Waste Managem
Activity Name		Original Duration	Remaining Duration		y % Current Start lete	Current Finis	h Late Start	Late Finish	Total Float	I M78 Remarks	May	Jun
Install temporary external enclosu	re for STG unpacking and assembly	30	30		0% 07-Jul-24	05-Aug-24	16-Jan-24	14-Feb-24	-173		/8	/9
		30				04-Sep-24		-				
Turbine Electrical installation and	instrumentation Works	90	90		0% 06-Aug-24	03-Nov-24	16-Mar-24	13-Jun-24	-143			
Install Maintananaa Cirdar 8 Cran	a at Madula 2 @. 12 247mDd	1	1		00/ 21 May 24	20. Jun 24	27 Dec 22	1/ Jap 24	15/			Insta
					,							
								,				
, ,		90										
, ,		90	90									
trical Room @+15.00mPD		120	120		31-May-24	27-Sep-24	21-Mar-24	18-Jul-24	-71			
Switchgear & electrical equipmen	t Installation 1F - I&C room (I/O, Server, Control Panel, Workstation)	120	120		0% 31-May-24	27-Sep-24	21-Mar-24	18-Jul-24	-71	Changed dur to 120d		
Switchgear & electrical equipmen	t Installation 1F - Generator Control Room (GPP,SP,DC batter Charger,Generator contro	120	120		0% 31-May-24	27-Sep-24	21-Mar-24	18-Jul-24	-71	Changed dur to 120d		
Switchgear & electrical equipmen	t Installation 1F - Battery Room (AC UPS, DC Battery Charger)	120	120		0% 31-May-24	27-Sep-24	21-Mar-24	18-Jul-24	-71	Changed dur to 120d		
		120			,							
	in Turbine Hall (1st Floor @+15)											
			121						-72			
		60				· · ·	,			°		
* *					,	· ·						
	11							, v				
quipment Installation												
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		178	151						_			
		150	140		7% 20-Feb-24 A	17-Oct-24	12-Mar-24	29-Jul-24	-80	Change Relationship from Predecessor		
	,									06-1260 from FS0 to SS0; Change		
										/ FOA. FEA		
· · · ·												
,						· ·	· ·					
,				-			· ·					
	loom											
		90	90									
WTP chemical storage tank instal	lation	60	60		0% 14-Aug-24				-75	Change dur to 60d		
Bld Equipment Installation		232	140		31-Dec-23 A	17-Oct-24	01-Mar-24	18-Jul-24	-91			
Deliver and Position of 11kV Tran	s formers @+6.5mPD (KS)	15	15		0% 14-Jun-24	29-Jun-24	16-Mar-24	30-Mar-24	-91			
132kV GIS Switch Gear @+6.5ml	PD	110	95	13.6	4% 15-May-24 A	02-Sep-24	16-Mar-24	18-Jun-24	-76			
GIS Insulation Switchboard install	ation	110	95			· · ·	16-Mar-24	18-Jun-24				
Other Associated Equipment Insta	allation	30	30		0% 02-Aug-24	01-Sep-24	20-May-24	18-Jun-24	-74			
Cable Laving and Termination		110	110		0% 29- lun-24	17-Oct-24	31-Mar-24	18- Jul-24	-91	•		
, ,	Substation @+14 1mPD		1					-				EOTC Hoist System installation in Subs
		105	105		10-Jul-24	-						
	in Sea Water Intake Pump Area	90	90		0% 10-Jul-24	08-Oct-24	01-May-24	29-Jul-24	-71			
,	•						,					
tion at External Area		90	90		29-Aug-24		,			0		
	n System Installation at Berth Area	90	90		0% 29-Aug-24	26-Nov-24	29-May-24	26-Aug-24	-92			
		170	170	-	0		,	9				
· ·		134	134		01-May-24 A	11-Oct-24	01-Jan-24	06-Sep-24	-35			
								· · · ·				
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						-		· ·				
	e Bld	134			31-May-24	· ·		-	_			
Piping Pressure Test		60			,							
1 0	CCW Bld	60			24-Jul-24							
Piping Installation Works		60	60						-151			
ping from Turbine Bld to ACC	.1	90	90		04-Jul-24		09-Jun-24					
		60	60		0% 04-Jul-24	01-Sep-24						
Piping Installation Works			50			P-1		· · ·-9-1			1	
Piping Installation Works Piping Pressure Test		60	60		0% 03-Aug-24	01-Oct-24	09-Jul-24	06-Sep-24	-25			
		60 167	60 167		0% 03-Aug-24 03-Jun-24	_	09-Jul-24 29-Mar-24		-25			
	Install temporary external enclosu STG Module 3 unpack and assem Turbine Electrical installation and Install Maintenance Girder & Cran rical Room Equipment Install Transport and Position 4 nos. of T Other Associated Equipment Insta Cable Laying and Termination for Cable Laying and Termination for Cable Laying and Termination for Cable Laying and Termination for Switchgear & electrical equipment Switchgear & electrical equipment Switchgear & electrical equipment Switchgear & electrical equipment Switchgear & electrical equipment Monorail Hoist System installation Trical Room @+23.50mPD Installation 6 nos. of Transformers Switchgear & electrical equipment Monorail Hoist System installation CW BId Equipment Installation Quipment Installation Air Compressor Rm Equipment In Piping installation and connection Electrical Instrumentation and Ins Cable Laying and Termination Works Cable Laying and Termination Works Delivery and fabrication of Water Electrical Instrumentation and Ins Cable Laying and Termination Works Delivery and fabrication of Water Electrical Instrumentation and Ins Cable Laying and Termination Works Delivery and fabrication of Water Electrical and instrumentation and Ins Cable Laying and Termination Works Delivery and fabrication of Water EICT & Monorail Hoist System installation MCC-12 @ WTP Switch Room DB for MCC-12 @ WTP Switch Room DB for ACC-12 @ WTP Switch Room DE IDT Hobit System installation Seawater Intake Pumps and Assoc tion at External Area Fuel Oil Reception and Distribution Deliver and Position of 11kV Trans 132kV GIS Switch Board Installation Seawater Intake Pumps and Assoc tion at External Area Fue	Install tempoory selema enclosure for STG unpacking and assembly STG Modue 3 unpack and assembly Turbne Exclusion and instrumentation Works Install Meintenance Gride & Crane at Modue 3 #= 2.23 fmPd Calle Long and gringment Installation Cable Long and Emplorent Installation Cable Long and Emplorent Installation Cable Long and Emplorent Installation F Modue 1 Cable Long and Emmistion for Modue 2 Cable Long and Emmistion for Modue 3 Statidages A sciencial equipment Installation F - Generator Control Rome (CPS PDC batter Charger Generator control Sottidages A sciencial equipment Installation F - Moster Mono (CPS 200 C Batter) Charger Cenerator control Sottidages A sciencial equipment Installation F - Moster Mono (CPS 200 C Batter) Charger Generator Control Sottidages A sciencial equipment Installation F - Moster Mono (CPS 200 C Batter) Charger Cenerator Control Sottidages A sciencial equipment Installation F - Moster Mono (CPS 200 C Batter) Charger Generator Control Sottidages A sciencial equipment Installation F - Moster Mono (CPS 200 C Batter) Charger Cenerator Control Sottidages A sciencial equipment Installation F - Moster Mono (CPS 200 C Batter) Charger Sottida equipment Installation F - Generator Canter Control Complex Sottida equipment Installation F - Moster Mono (CPS 200 C Batter) Charger Sottida equipment Installation F - Generator Canter Control Complex Sottida equipment Installation F - Generator Canter Control Complex Sottida equipment Installation Complex Sottida equipment Installation Science F - Sottida equipment Installation F - Generator Canter Control Complex Sottida equipment Installation Science F - Sottida equipment I	Initial Ingranty external exclusion for STG urpucking and assembly 90 STG Mode 3 urpack and assembly 90 Turble: Exclusion installation and installation Works 90 Install Momentance Criter & Crane at Model 3 @+ 224 mfd 91 Calle: Laying and mentation for Models 1 91 Calle: Laying and Termination for Models 2 90 Calle: Laying and Termination for Models 2 90 Calle: Laying and Termination for Models 2 90 Calle: Laying and Termination for Models 3 90 Victar Room @+15.000PD 120 Swithgrap A electricit enginement testalation 1F - H&C room (No. Server, Cortrol Panel, Workstotor) 120 Swithgrap A electricit enginement testalation 1F - H&C room (No. Server, Cortrol Panel, Workstotor) 120 Swithgrap A electricit enginement testalation 1F - H&C room (No. Server, Cortrol Panel, Workstotor) 120 Swithgrap A electricit enginement testalation 1F - H&C room (No. Server, Cortrol Panel, Workstotor) 120 Swithgrap A electricit enginement testalation 1F - H&C room (No. Server, Cortrol Panel, Workstotor) 120 Swithgrap A electricit enginement testalation 1F - H&C room (No. Server, Cortrol Panel, Workstotor) 120 Swithgrap A electricit enginement testalation 1F - H&C room (No. Server, Cor	Install improve yethered exclosure for SG urgating and assemblyDensitySTG Model 3 urgates, end assembly30300Turbre Electical installation and instrumentation Works700300Install Maramanes G for a Core at Model 2 = -2.2 MPM7171Install Maramanes G for a Core at Model 2 = -2.2 MPM71071Check Accore at Model 2 = -2.2 MPM7171Install Maramanes G for a Core at Model 260700Cable Laying and Termation for Model 260700Cable Laying and Termation for Model 2700700Cable Laying and Termation for Model 2700700Cable Laying and Termation for Model 2700700Switdgard & detical enginement Istallation T - Battery Mone (CLU'S DC Battery Charger)710710Switdgard & detical enginement Istallation T - Battery Mone (CLU'S DC Battery Charger)710710Switdgard & detical enginement Istallation T - Battery Mone (CLU'S DC Battery Charger)710710Marta Room (CLU'S DC Battery Charger)710710710Switdgard & detical enginement Istallation T - More Actor (SD)710710710Installation for Compose Transforment Istallation T - More Actor (SD)710710710Marta Room (CLU'S DC Battery Charger)710710710Marta Room (SC SC Store)710710710Marta Room (SC SC Store)710710710Marta Room (SC SC Store)710710710Marta Room (SC SC Store)710710710 <td>Database Database Database</td> <td>Decision Decision Decision Decision Decision Install regramy varied exclose for S10 crpacitly and accordly 30 30 50 50.0</td> <td>Decision Decision Decision Decision Decision Triculation of a summary matches of SUrgendon and soundly 30 <t< td=""><td>InstitutionI</td><td>Initial part of the sector of 3 Graphics on at assemblyInitial part of the sector of 3 Graphics on at assemblyInitial part of the sector of 3 Graphics on at assemblyInitial part of the sector of 3 Graphics on at assemblyInitial part of the sector of 3 Graphics on at a sector of 3 Graphics on a sector of 3 Graphics on at a sector of 3 Graphics on at</td><td>Data Data <th< td=""><td>Image</td><td>Image: starting and startin</td></th<></td></t<></td>	Database Database	Decision Decision Decision Decision Decision Install regramy varied exclose for S10 crpacitly and accordly 30 30 50 50.0	Decision Decision Decision Decision Decision Triculation of a summary matches of SUrgendon and soundly 30 <t< td=""><td>InstitutionI</td><td>Initial part of the sector of 3 Graphics on at assemblyInitial part of the sector of 3 Graphics on at assemblyInitial part of the sector of 3 Graphics on at assemblyInitial part of the sector of 3 Graphics on at assemblyInitial part of the sector of 3 Graphics on at a sector of 3 Graphics on a sector of 3 Graphics on at a sector of 3 Graphics on at</td><td>Data Data <th< td=""><td>Image</td><td>Image: starting and startin</td></th<></td></t<>	InstitutionI	Initial part of the sector of 3 Graphics on at assemblyInitial part of the sector of 3 Graphics on at assemblyInitial part of the sector of 3 Graphics on at assemblyInitial part of the sector of 3 Graphics on at assemblyInitial part of the sector of 3 Graphics on at a sector of 3 Graphics on a sector of 3 Graphics on at a sector of 3 Graphics on at	Data Data <th< td=""><td>Image</td><td>Image: starting and startin</td></th<>	Image	Image: starting and startin

Contract I Naste Management Fa	No. EP/SP/66/12 acilities, Phase 1	環境保護署 Environmental Protection Department
Jun	Jul	Aug
79	80	81 Install temporary external enclosure for ST
Install Mainten	ance Girder & Crane at Module 3 @+22.247mPd	
	fansport and Position 4 nos. of Transformers @	1F (ZH)
-		
Air	Compressor Rm Equipment installations	
		Pi
		C(
	1	
	1	
	- 	
	· 	
	Peliver and Position of 11kV Trans formers @+(.5mPQ (KS)
	Peliver and Position of 11kV Trans formers @+(
Hoist System installation in Substation @+		
	A.1mPD	
	A.1mPD	
	A.1mPD	
	A.1mPD	Piping Pres
	A.1mPD	
	A.1mPD	Piping Pres
Hoist System installation in Substation @+	A 1mPD Piping Installation Works	Piping Pres
	4 1mPD Piping Installation Works	Piping Pres
Hoist System installation in Substation @+	4 1mPD Piping Installation Works	Piping Pres

	Ale and Ale										Inter	Col grated Waste Manager
ivity ID	Adivity Name	Original Duration	Remaining Duration	Activity % Cu Complete	urrent Start	Current Finish	Late Start	Late Finish	Total Float	M78 Remarks	May	
12 2510(7)	Entration and Delivery of Obligance Flow Care Durat				2 1	20.0 24	20 14-2 24	16 10 04			78	79
13-2510(7)	Fabrication and Delivery of Chimney Flue Gas Duct Flue Gas Duct Erection Works and weld test	110			3-Jun-24*	· ·	29-Mar-24		-66			
13-2610		30			9-Aug-24	16-Nov-24			-			
13-2630	CEMS Delivery and installation (3nrs.)	30	30	0% 29	9-Aug-24	27-Sep-24	14-Sep-24	13-Oct-24	16	Removed Predecessor 10-2060-1, added predecessor 10-2060		
Landscape, Exte	rnal Road and Drains Works	950	280	28	8-Apr-22 A	06-Mar-25	05-Dec-23	30-Dec-24	-66			
External Utilities	Works	950	280	28	8-Apr-22 A	06-Mar-25	05-Dec-23	30-Dec-24	-66			
External Utilities	s C&S Works	310	280	24	4-Apr-24 A	06-Mar-25	05-Dec-23	30-Dec-24	-66			
14-1055(7)	Cable Duct and Drawpit	280	280	0% 31	1-May-24	06-Mar-25	25-Mar-24	30-Dec-24	-66			
14-4000(7)	Utility Trench Construction Section UT1 (27nr Semi-precast segments @3nrs/5d)	60	43		4-Apr-24 A	12-Jul-24	05-Dec-23	16-Jan-24	-178			
14-4010(7)	Utility Trench Construction Section UT2 (27nr Semi-precast segments @3nrs/5d)	60	60	0% 31	1-May-24	29-Jul-24	27-Jan-24	26-Mar-24	-125			
14-4020(7)	Utility Trench Construction Section UT3a (14nr Semi-precast segments @2nrs/5d)	45	32	30% 12	2-May-24 A	07-Aug-24	26-Feb-24	28-Mar-24	-132			
14-4025(7)	Utility Trench Construction Section UT3b (11nr Semi-precast segments @2nrs/5d)	45	45	0% 07	7-Jul-24	20-Aug-24	26-Feb-24	10-Apr-24	-132			
14-4030(7)	Utility Trench Construction Section UT4 (36nr Semi-precast segments @3nrs/5d)	70	70	0% 07	7-Aug-24	16-Oct-24	01-Apr-24	09-Jun-24	-129			
14-4040(7)	Utility Trench Construction Section UT5 (29nr Semi-precast segments @3nrs/5d)	60	60	0% 22	2-Jun-24	21-Aug-24	21-Mar-24	19-May-24	-94			
14-4060(7)	Utility Trench Construction Section UT7 (43nr Semi-precast segments @3nrs/5d)	80	80	0% 13	3-Jul-24	30-Sep-24	17-Jan-24	05-Apr-24	-178			
14-4090(7)	Utility Trench Construction Section UT10 (25nr Semi-precast segments @3nrs/5d)	45	45	0% 21	1-Aug-24	04-Oct-24	15-Jun-24	29-Jul-24	-67			
External Power	& Signal Cable Layinng in Utility Trench	100	100	13	3-Jul-24	20-Oct-24	11-Apr-24	18-Jul-24	-94			
14-4100(7)	External Power & Singnal Cable Laying - Substation to Electrical Building and ACC	60	60	0% 13	3-Jul-24	10-Sep-24	20-May-24	18-Jul-24	-54			
14-4110(7)	External Power & Singnal Cable - Electrical Building to PB Module 1 & 2 and CCCW	60	60	0% 21	1-Aug-24	19-Oct-24	11-Apr-24	09-Jun-24	-132			
14-4130(7)	External Power & Singnal Cable Laying - Electrical Building to MT & WTP, Process Building Module 1	60	60	0% 21	1-Aug-24	20-Oct-24	20-May-24	18-Jul-24	-94			
Drainage Works	3	268	268	31	1-May-24	22-Feb-25	05-Jan-24	09-Dec-24	-75			
Overtopping Dr	rain System	162	162	31	1-May-24	08-Nov-24	05-Jan-24	09-Dec-24	31			
West Culvert (2.5		162	162	31	1-May-24	08-Nov-24	05-Jan-24	09-Dec-24	31			
14-3010	Pipe Section (69m @5m/d)	62	62	0% 31	1-May-24	31-Jul-24	05-Jan-24	06-Mar-24	-147			
14-3020	Rectangular Section (184m @10m/5d)	100	100	0% 01	1-Aug-24	08-Nov-24	01-Sep-24	09-Dec-24	31			
U/G Storm Drai	inge System	250	250	18	8-Jun-24	22-Feb-25	25-Feb-24	31-Oct-24	-114			
14-1000(6D)	External Drainage System Construction Works (Common trench construction Utility Trench)	250	250	0% 18	8-Jun-24	22-Feb-25	25-Feb-24	31-Oct-24	-114			
	er Drainage System	250			8-Jun-24	22-Feb-25		31-Oct-24	-114			
14-1000-1(M55)10	5 5	250	250	0% 18	8-Jun-24	22-Feb-25	25-Feb-24	31-Oct-24	-114			
Earthing Systen		180	97		8-Apr-22 A			16-Jun-24	-80			
16-1900-2(6)	Installation of Ground Earthing Mesh	180			· ·	04-Sep-24		16-Jun-24	-80			
Works By CLP		422	270			24-Feb-25		18-Sep-24	-159			
								<u> </u>				
	ansmission System	184				29-Jul-24		21-Feb-24				
15-0800	450 days Prior to Commencement of System Commissioning Test	0	0		2-Jul-24		06-Jan-24		-178			
15-1000	Construction of Transmission System	90			0-Nov-23 A			21-Feb-24	-159			
Ŭ	llation Works by CLP	270				24-Feb-25		18-Sep-24				
15-1005	Availability of CLP Equipment Room for Equipment Installation (no later than 10 mths before energization)	0	0		1-May-24		24-Dec-23		-159			 Availability of CLP Equipment Room
15-1007	Telecom / Digital / Security / Metering Equipment Installation	210			0-Jul-24	24-Feb-25		18-Sep-24	-159			
Testing & Comm	issioning	120	120	07	7-Jul-24	03-Nov-24	11-Jan-24	09-May-24	-178			
SAT & System C	ommissioning Tests	120	120	07	7-Jul-24	03-Nov-24	11-Jan-24	09-May-24	-178			
Ash Treatment	Equipments T&C	30	30	30	0-Jul-24	28-Aug-24	10-Apr-24	09-May-24	-111			
16-1970(M62)	Systemwise Construction Completion Inspection - Module 1	30	30	0% 30	0-Jul-24	28-Aug-24	10-Apr-24	09-May-24	-111			
Incineration Pro		120	120		7-Jul-24	03-Nov-24		09-May-24	-178			
	uipments (Train 1 & 2)	120	120	07	7-Jul-24	03-Nov-24	11-Jan-24	09-May-24	-178			
mount i a Ly	Site Acceptance Test (Systemwise Construction Completion Inspection)		120		7-Jul-24	03-Nov-24		,				

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ment Fa	lo. EP/SP/66/12 cilities, Phase 1	R	表境保護署 nvironmental Protection Department
20	Jul 80		Aug 81
			on UT1 (27nr Semi-precast segments @3nrs/5d) iiity Trench Construction Section UT2 (27nr Semi-pr Utility Trench Construction Section UT3 Utility Trench Co Utility Trench C
			Pipe Section (69m @5m/d)
	♦ 450 days Prior to Commence	-	missioning Test onstruction of Transmission System

	Construction of Transmission System
for Equipment Installation (no later than 10 mths before energiza	ation)
	Sy

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
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				Imple	ementa	ation S	tages*	Relevant	Implementation
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	Status and Remarks
S3b.8.1	 <u>Air Pollution Control (Construction Dust)</u> <u>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

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				Imple	ementa	ation S	tages*	Relevant	Implementation
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	Status and Remarks
	 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	 Odour Removal by Deodorizers 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	Air Pollution Control and Stack Monitoring	IWMF stack emissions / During	IWMF Operator	~		~		EIAO-TM, Supporting Document for	N/A

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EIA Ref Legisition Measures Decidin/ Timing Implementation Agent Des C O Dec Legisition Agent Status and Guidelines 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 respectively; In addition to SCR, provide SNCR for removal of NO; tighten emission limit for half-hourly and daily NO, 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 ari pollutant has exceeded 95% of the emission concentration limits as stipulated Implementation Agent Des C O Dec Legisiation and Back Remarks		Environmental Protection			Imple	ementa	tion S	tages*	Relevant	Implementation
 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; 1. Two-stage bag filter system with reagent recirculation; 2. 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; 3. Well-mixed feed waste: to minimize the fluctuation of pollutant loading on the flue gas treatment system; 4. Two more AdMSs would be set up at South Lantau and Shek Kwu Chau respectively; 5. Limit levels will be set under the IWMF DBC contract to require that waste feed shall cease if any of the air pollutant has exceeded 95% of the emission concentration limit as stipulated 	EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec		Status and
concentration limit as stipulated		 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 halfhourly 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 	design & operation	Agent					Guidelines Application for Variation of Environmental Permit (EP-	Remarks
in the Special Process license;		concentration limit as stipulated								

				Imple	ementa	ation S	tages*	Relevant	Implementation Status and Remarks
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	ο	Dec	Legislation and Guidelines	
	 Each incineration chamber shall be fitted with auxiliary burners to ensure complete burn out of the combustion gases. 								
-	 Treated Fly Ash and Air Pollution Control Residues: During testing and commissioning, the Contractor shall sample and test over container of treated fly ash and 	IWMF stack emissions / During design & operation phase	IWMF Operator					Supporting Document for Application for Variation of Environmental Permit (EP- 429/2012)	N/A

				Imple	ementa	ation S	Stages*	Relevant	Implementation Status and Remarks
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	
	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								

	Environmental Protection			Imple	ementa	ation S	tages*	Relevant	Implementation Status and Remarks
EIA Ref	Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	
	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.								
	 Bottom Ash: 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

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				Imple	ementa	ation S	Stages*	Relevant	Implementation Status and Remarks
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	
	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								

	Environmentel Protection					Relevant	Implementation		
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	Status and Remarks
	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

	Environmental Brotestian				Imple	ementa	ation S	tages*	Relevant	
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent		Des	С	0	Dec	Legislation and Guidelines	Implementation Status and Remarks
S4b.8	Good site practices to limit noise emissions a source and use of quiet plant and working methods, whenever practicable.	Work Sites / Construction Period	EPD and contractors	its		~			EIAO-TM	Implemented
& 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	Within IWMF area / Construction Period	EPD and contractors	its	×		×		EIAO-TM	N/A
	 Louver or other acoustic treatment equipment could also be applied to the exhaust of the ventilation system. 									

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				Imple	ementa	ation S	tages*	Relevant	
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	ο	Dec	Legislation and Guidelines	Implementation Status and Remarks
-	 <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

				Impl	ementa	ation S	tages*	Relevant		
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	Implementation Status and Remarks	
S5b.8.1.1			Contractor					Guidelines EIAO-TM; ProPECC PN 2/23; WPCO	Deficiency of Mitigation Measures but rectified by the Contractor	

				Imple	ement	ation S	tages*	Relevant	Implementation Status and Remarks
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	
	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								

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				Impl	ementa	tion S	tages*	Relevant	
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	Implementation Status and Remarks
	 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		Work site / During the construction period	Contractor					EIAO-TM; ProPECC PN 2/23; WPCO	Implemented

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				Impl	ementa	ation S	tages*	Relevant	Implementation Status and Remarks
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	
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.	construction	Contractor		•			EIAO-TM; ProPECC PN 2/23; WPCO	Implemented Discharge License was issued on 15/02/2022
S5b.8.1.4	Accidental Spillage 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		During the construction	Contractor		√			EIAO-TM; ProPECC PN 2/23; WPCO; WDO	Implemented

				Imple	ementa	ation S	tages*	Relevant	Implementation Status and Remarks
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	
	appropriately equipped to control these discharges.								
S5b.8.1.6		Work site / During the construction period	Contractor		 Image: A start of the start of			EIAO-TM; ProPECC PN 2/23; WPCO; WDO	Implemented
S5b.8.1.7	Disposal of chemical wastes should be carried out in compliance with the Waste	Work site / During the construction period	Contractor					EIAO-TM; ProPECC PN 2/23; WPCO; WDO	Implemented
	 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. 								

EIA Ref	Environmental Protection Measures / Mitigation Measures		Implementation Agent	Impl	ementa	ation S	tages*	Relevant Legislation and Guidelines	
		Location / Timing		Des	С	0	Dec		Implementation Status and Remarks
S5b.8.1.8	Sewage Effluent 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			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	Time in a		Imple	emen	tation S	stages*	Relevant	Implementation Status and Remarks
			Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	
	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;								

	Environmental Protection Measures / Mitigation Measures		Implementation Agent	Impl	ementa	ation S	Stages*	Relevant Legislation and Guidelines	Implementation Status and Remarks
EIA Ref		Location / Timing		Des	С	0	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 								

			Implementation Agent	Imple	ementa	tion S	tages*	Relevant Legislation and Guidelines	Implementation Status and Remarks
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing		Des	С	0	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

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EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Imple	ementa	ation S	tages*	Relevant Legislation and Guidelines	Implementation Status and Remarks
				Des	С	Ο	Dec		
	compliance with the Waste Disposal Ordinance.								
S5b.8.2.5	Refuse Entrapment 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		Transportat ion 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			Impl	ementa	ation S	tages*	Relevant Legislation and Guidelines	Implementation Status and Remarks
		Location / Timing	Implementation Agent	Des	С	0	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	Implemented

	Environmental Protection			Impl	ementa	ation S	tages*	Relevant	
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	Implementation Status and Remarks
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; 	Work Site/ During Design & Construction Period	Contractor						Implemented N/A for demolition items

					Imple	ementa	ation S	tages*	Relevant	
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementat Agent	Implementation Agent		С	0	Dec	Legislation and Guidelines	Implementation Status and Remarks
	 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	Dredged Sediment – Application of Dumping Permit 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 contractor	its	~	✓			DASO ETWB TCW 34/2002	Implemented
6b.5.1.8	Dredged Sediment – Sediment Quality Report 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 contractor	its	~				DASO ETWB TCW 34/2002	Implemented

				Impl	ementa	ation S	tages*	Relevant	
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	Implementation Status and Remarks
	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	Dredged Sediment – Sediment <u>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		Work Site/ During Design & Construction Period	Contractor	×	*			ETWB TCW No. 19/2005	Implemented

				Impl	ementa	ation S	tages*	Relevant	
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	Implementation Status and Remarks
EIA Ref 6b.5.1.1 1 – 6b.5.1.12	Measures(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 <i>ETWB TCW No. 31/2004</i>).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	Timing Work Site/ During Design &		Des	C	0	Dec	and	
	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.								

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				Imple	menta	ation S	stages*	Relevant	Implementation Status and Remarks
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	
	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		V			Waste Disposal (Chemical Waste) (General) Regulation	Implemented

	Environmental Protection			Impl	ementa	ation S	tages*	Relevant	Implementation Status and Remarks
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	
	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	Implemented
6b.5.1.1 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; 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

	Environmental Bratastics			Impl	ementa	ation S	tages*	Relevant	Implementation Status and Remarks
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	
	 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

				Imple	ementa	ation Stages*	Relevant	Implementation Status and Remarks
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	O Dec	Legislation and Guidelines	
	 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 disposal sites). 							
6b.5.2.2	 Waste Reduction Measures 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 	Period	IWMF Operator			×		Implemented

	Environmentel Protection			Imple	ementa	ation S	tages*	Relevant	Implementation Status and Remarks
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	
	 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</u>, <u>Handling</u>, <u>Treatment</u>, <u>Collection</u> <u>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 segregatedfrom the ambient environment; Ash should be wetted with water to control fugitive dust, where necessary; All fly ash and APC residues should 	IWMF Site/ During Operation Period	IWMF Operator			V		Incineration Residue Pollution Control Limits	N/A
	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;								

				Impl	ementa	ation S	stages*	Relevant	
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	Ο	Dec	Legislation and Guidelines	Implementation Status and Remarks
	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	 Fuel Oil Tank Construction and Test 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

				Imple	ement	ation S	stages*	Relevant	
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	Implementation Status and Remarks
6b.6.3.1	 Fuel Oil Pipeline Construction and Test 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. 	Fuel Oil Pipelines/ During Design, Construction and Operation Periods	IWMF Contractor	V	~	~			N/A
	• 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. 								
6b.6.3.1	 Fuel Oil Leakage Detection 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	Fuel Oil Storage Tank Refuelling	Fuel Oil Refuelling Point/	IWMF Operator			✓			N/A

	Environmental Protection			Impl	ementa	ation S	tages*	Relevant	Implementation Status and Remarks
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	
	• 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	Fuel Oil Spillage Response 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.	IWMF Site/ During Operation Period	IWMF Operator			✓			N/A
	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								

				Imple	ementa	ation S	tages*	Relevant	Implementation Status and Remarks
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	
	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								

	Environmental Protection			Impl	ementa	ation S	Stages*		Implementation Status and Remarks
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	
	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 at regular intervals to ensure that it is satisfactorily maintained 	Chemicals and Chemical Wastes Storage Area / During Operation Period	IWMF Operator						N/A
	For liquid chemicals and chemical wastes storage, the								

				Imple	menta	ation S	tages*	Relevant	Implementation Status and Remarks
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	
	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</u> <u>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 	IWMF Site/ During Operation Period	IWMF Operator			✓			N/A
	 Training on spill response actions should be given to relevant staff. The training shall cover the followings: 								

				Impl	ementa	ation Stag	es*	Relevant	Implementation Status and Remarks
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	O D	ec	Legislation and Guidelines	
	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/								

	Environmentel Brotestica			Impl	ement	ation S	stages*	Relevant	Implementation Status and Remarks
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	
	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 Byproducts Handling</u> The recommended measures listed below can minimize the potential contamination to the surrounding environment due to the incineration byproducts: 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			Ý			N/A

				Imple	menta	ation S	tages*	Relevant	Implementation Status and Remarks
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	
	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	Incident Record 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

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	Environmental Protection			Impl	ementa	ation S	tages*	Relevant	Implementation Status and Remarks
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	
	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</i> of <i>Risk-based Remediation Goals for</i> <i>Contaminated Land Management and the</i> <i>Guidance Note for Contaminated Land and</i> <i>Remediation.</i>								

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

	Environmental Protection			Imple	ementa	ation S	tages*	Relevant	Implementation Status and Remarks
EIA Ref	Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	
7b.8.2.1	 Measures to avoid direct loss of intertidal habitat 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	 Measures to minimise loss of coastal subtidal habitat 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 subtial habitat near shore. 	IWMF site	Design team	×				EIAO-TM	N/A
7b.8.2.3	 Zero Discharge Scheme 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

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

Integrated Waste Management Facilities, Phase 1

	Environmental Protection				Impl	ementa	ation S	tages*	Relevant	
EIA Ref	Measures / Mitigation Measures	Location / Timing	-	Implementation Des Agent		С	O Dec		Legislation and Guidelines	Implementation Status and Remarks
	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	 Measures to avoid loss of plant species of conservation importance Landing portal construction works would not cause direct lost to the recorded individual of protected plant species, Aquilaria sinensis, 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 Ianding portal	Design Contractor	team,	✓	~		✓	EIAO-TM	N/A
7b.8.3.1 - 7b.8.3.1 5	 Measures to minimise water quality impact Measures for water quality as recommended in Section 5b of the EIA Report should be implemented. 	Work site	Design contractor, operator	team, IWMF	~	~	~	~	EIAO-TM; ProPECC PN 2/23; WPCO	Implemented
7b.8.3.1 6 - 7b.8.3.3 0	Measures to minimise disturbance on Finless Porpoise Minimisation of Habitat Loss for Finless Porpoise	IWMF site, work site, marine traffic route	Design contractor, operator	team, IWMF	✓	~	√	•	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 other

Integrated Waste Management Facilities, Phase 1

	Environmental Protection			Impl	ementa	ation S	tages*	Relevant	Implementation Status and Remarks
EIA Ref	Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	ο	Dec	Legislation and Guidelines	
	 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. Avoidance of peak season for finless porpoise occurrence 							Guidelines Permit (EP- 429/2012)	
	 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); 								

Integrated Waste Management Facilities, Phase 1

	Environmental Protection			Imple	ementa	ation S	tages*	Relevant	Implementation Status and Remarks
EIA Ref	Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	ο	Dec	Legislation and Guidelines	
	 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.								
	Opt for quieter construction methods and plants								
	 Considering the sensitivity of marine mammals to underwater acoustic disturbance, instead of the previously proposed conventional breakwater and reclamation peripheral structure, 								
	and reclamation peripheral structure, which requires noisy piling works, the current circular cells structure for								

Integrated Waste Management Facilities, Phase 1

	Environmental Protection			Imple	ement	tation S	tages*	Relevant	Implementation Status and Remarks
EIA Ref	Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	ο	Dec	Legislation and Guidelines	
	 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.								
	Monitored exclusion zones								
	 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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	Environmental Protection			Imple	ementa	ation S	tages*	Relevant	Implementation Status and Remarks
EIA Ref	Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	ο	Dec	Legislation and Guidelines	
	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. 								
	Marine mammal watching plan								
	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								

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	Environmental Protection			Impl	ementa	ation S	Stages*	Relevant	
EIA Ref	Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	Implementation Status and Remarks
	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.								
	Small openings at silt curtains								
	• The openings for vessel access at the silt curtains should be as small as possible to minimise the risk of accidental entrance.								
	Adoption of regular travel route								
	• During construction and operation, captains of all vessels should adopt regular travel route, in order to minimize the chance of vessel collision with								

Integrated Waste Management Facilities, Phase 1

	Environmental Protection			Imple	ement	tation S	Stages*	Relevant	Implementation Status and Remarks
EIA Ref	Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	ο	Dec	Legislation and Guidelines	
	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.								
	Vessel speed limit								
	 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. 								
	Training of Staff								
	• 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								

Integrated Waste Management Facilities, Phase 1

	Environmental Protection				Impl	ementa	ation S	Stages*	Relevant	
EIA Ref	Measures / Mitigation Measures	Location / Implementation Timing Agent			Des	С	0	Dec	Legislation and Guidelines	Implementation Status and Remarks
7b.8.3.3 1 - 7b.8.3.3 4	Measures to minimise impact on corals Coral translocation	IWMF site	Design contractor, operator	team, IWMF	~	√	~	~	EIAO-TM	Implemented, tagged coral found missing after hitting by typhoons
	 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). 									Re-tagging of 10 coral colonies at indirect impact site and control site were conducted in November and December 2018 respectively.
	• 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 									

Integrated Waste Management Facilities, Phase 1

	Environmental Protection			Imple	ement	ation S	tages*	Relevant	
EIA Ref	Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	ο	Dec	Legislation and Guidelines	Implementation Status and Remarks
	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.								
	Coral monitoring programme								
	 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. 								
	Phasing of Works								
	 To minimize environmental impacts, the proposed phasing of construction works has been carefully designed to 								

Integrated Waste Management Facilities, Phase 1

	Environmental Protection			Impl	ementa	ation S	tages*	Relevant	
EIA Ref	Measures / Mitigation Measures	Location / Timing			С	ο	Dec	Legislation and Guidelines	Implementation Status and Remarks
	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</u> <u>disturbance on breeding White-bellied</u> <u>Sea Eagle</u> Avoidance of noisy works during the breeding season of White-bellied Sea Eagle 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). 		Design Team, Contractor, IWMF operator					EIAO-TM	Implemented

Integrated Waste Management Facilities, Phase 1

	Environmental Protection			Imple	ementa	ation S	tages*	Relevant	Implementation Status and Remarks
EIA Ref	Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	ο	Dec	Legislation and Guidelines	
	Opt for quieter construction methods and plants								
	 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. 								
	Restriction on vessel access near the nest of White-bellied Sea Eagle								
	• 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.								
	White-bellied Sea Eagle monitoring programme								
	 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 								

Integrated Waste Management Facilities, Phase 1

	Environmental Protection	Leasting (Imple	ementa	ation S	Stages*	Relevant	Investore and a time. Ota two	
EIA Ref	Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	Implementation Status and Remarks
	 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. 								
	Education of staff								
	• 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.								
	Minimisation of Glare Disturbance								

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	Environmental Protection			Impl	ementa	ation Sta	ages*	Relevant	
EIA Ref	Measures / Mitigation Measures	Location / Implementa Timing Agent		Des	С	ο	Dec	Legislation and Guidelines	Implementation Status and Remarks
	 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	✓	 Image: A start of the start of			Supporting Document for Application for Variation of Environmental Permit (EP- 429/2012)	N/A
7b.8.3.42	 Opt for Quieter Construction Methods and Plants 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		~		 Image: A start of the start of	EIAO-TM	Implemented
7b.8.3.43		IWMF site	Design team, contractor, IWMF operator	v	 Image: A start of the start of	V		EIAO-TM	Implemented

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	Environmental Protection			Impl	ementa	ation S	tages*	Relevant	
EIA Ref	Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	Implementation Status and Remarks
7b.8.3.4 4 - 7b.8.3.4 5	 Measures to minimize accidental spillage Regular maintenance of vessels, vehicles and equipment that may cause leakage and spillage should only be undertaken within predesignated 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	 Measures to minimise sewage effluent 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		Work site	Contractor		 Image: A start of the start of		~	EIAO-TM	N/A

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	Environmental Protection			Imple	ement	ation S	Stages*	Relevant	Implementation Status and Remarks
EIA Ref	Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	
	 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 minimized to reduce siltation and runoff. Earthwork final surfaces should be well compacted. Subsequent permanent surface protection should be immediately performed. 								

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	Environmental Protection			Impl	ementa	ation S	tages*	Relevant	Implementation Status and Remarks
EIA Ref	Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	
	site should be covered with tarpaulin or similar fabric during rainstorms.								
7b.8.3.48	 Measures to minimise impacts from general construction activities 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	Pest Control 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 operator			V			N/A

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	Environmental Protection			Impl	ementa	ation S	tages*	Relevant	Implementation Status
EIA Ref	Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	ο	Dec	Legislation and Guidelines	Implementation Status and Remarks
	 Maintenance of a tidy and clean site environment Regular application of pest control Education of staff the importance of site clean linear 								
7b.8.3.50	site cleanliness Control of Marine Habitat Quality during Operation Phase	IWMF site	IWMF operator			~		EIAO-TM; WPCO	N/A
	 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. 								
7b.8.4. 1 –	Compensation of loss of important habitat of Finless Porpoise	Waters between Shek	Project Proponent	~		~		EIAO-TM	N/A

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	Environmental Protection			Imple	ement	ation S	stages*	Relevant	
EIA Ref	Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	ο	Dec	Legislation and Guidelines	Implementation Status and Remarks
7b.8.4. 8	Designation of Marine Park	Kwu Chau and Soko Islands							
	 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 								

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	Environmental Protection			Imple	ementa	tion S	tages*	Relevant	
EIA Ref	Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	Implementation Status and Remarks
	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.	Additional Enhancement or	Within the	Project Proponent	\checkmark		\checkmark		EIAO-TM	N/A
1 – 7b.8.5.	Precautionary Measures Deployment of Artificial Reefs	proposed marine park							
1.0.5. 1	Deployment of Annolar Neels	under this							
	• Deployment of artificial reefs (ARs) is	study							
	an enhancement measure for the								
	marine habitats. ARs are proposed to								
	be deployed within the proposed								

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	Environmental Protection			Imple	ement	ation S	tages*	Relevant	Implementation Status and Remarks
EIA Ref	Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	
	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.								
	Release of Fish Fry at Artificial Reefs and Marine Park								
	 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. 								

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

					Imple	ementa	tion S	Stages*	Relevant	Implementation
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implemer Age		Des	С	0	Dec	Legislation and Guidelines	Status and Remarks
8b.8.1.2	 Measure to minimize loss of and disturbance on fisheries resources 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 	IWMF site	Design contractor	team,	×	~		~	EIAO-TM	N/A
	instead of the conventional seawall construction method, SS elevation would be greatly reduced, minimizing adverse impact on the health of fisheries resources.									
8b.8.1.3	Measure to minimize impingement and entrainment	IWMF site	Design contractor, operator	team, IWMF	•	~	~		EIAO-TM	N/A
	 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. 									

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

						Imple	ementa	ation S	Stages*	* Relevant	Implementation
EIA Ref	Environmental Protection Measures / Mitigation Measures	Locat Tim	tion / ning	Impleme Age		Des	С	0	Dec	Legislation and Guidelines	Status and Remarks
8b.8.1.4- 8b.8.1.6	 Measures to control water quality No wastewater effluent, anti-fouling agent, heavy metals and other contaminants would be released during operation phase of the Project. 		site, IWMF	Design contractor, operator	team, IWMF	√	~	✓	v	EIAO-TM	Implemented
	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										
8b.8.1.7 - 8b.8.1.8	 <u>Additional Enhancement / Precautionary</u> <u>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. Release of Fish Fry at Artificial Reefs 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 	Within propose marine in the betweer Islands Shek Chau	park waters	Project Pro	ponent	✓		✓		EIAO-TM	N/A

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

Table B.7	Implementation Schedule for Landscape and	a visual measure	es for the IWWF at the	e artific	cial Isla	and ne	ar SKC		
				Imple	ementa	ation S	tages*	Relevant	Implementation
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	Status and Remarks
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	 Landscape Design 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. 		Contractor	✓	✓				N/A

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

				Implemen	tation S	Stages*	Relevant	Implementation
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des C	0	Dec	Legislation and Guidelines	Status and Remarks
S10b.10 MLVC-03	 <u>Adoption of Natural Features of the Existing</u> <u>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. 	Work site / During construction phase	Contractor	✓				N/A
	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.							
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. 	Work site / During design & construction phases	Contractor	✓ ✓				N/A
	 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.							

				Imple	menta	ation S	tages*	Relevant	Implementation	
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	Status and Remarks	
S10b.10 MVC-01	Visual Mitigation and Aesthetic Design	Structures in IWMF /	Contractor	~	\checkmark				N/A	
MVC-01	 Use of natural materials with recessive color to minimize the bulkiness of the building. 	During design & constructio n phases								
	 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. 		n phases							
	 Color of the chimney in a gradual changing manner to match with the color of the sky. 									
	 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. 									
	 Integration of the visitor's walkway with different material façade design of incinerator plant to enhance the aesthetic quality. 									
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	

				Imple	menta	tion S	Stages*	Relevant	Implementation
EIA Ref	Environmental Protection Measures / Mitigation Measures	Location / Timing	Implementation Agent	Des	С	0	Dec	Legislation and Guidelines	Status and Remarks
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 un- obtrusive 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	Planting Maintenance 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	Environmental Education Centre 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	Control of Light 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

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

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

Appendix C Impact Monitoring Schedule of the Reporting Month

			Impact Monitoring Schedule for IWMF			
			Jun-24	la.		
Sun M	ton	Tue	Wed	Thu P	ri	Sat 1
2 3		4	5	6 7		8
	impact Daytime & Evening Noise monitoring for M1, M2 & M3	Impact Night time Noise monitoring for M1, M2 & M3				
	Daytime & Evening Noise monitoring for M1, M2 & M3	Night time Noise monitoring for M1, M2 & M3				
9 10	0	11	12	13 1	4	15
		Impact Daytime & Evening Noise monitoring for M1 & M2	Impact Night time Noise monitoring for M1 & M2	Impact Night time Noise monitoring for M3		
		Daytime & Evening Noise monitoring for M1 & M2	Night time Noise monitoring for M1 & M2 Daytime & Evening Noise monitoring for M3	Night time Noise monitoring for M3		
			Daytime & Evening Noise monitoring for M3			
16. 12	1	18	19	20 22	1	22
	impact Daytime & Evening Noise monitoring for M1, M2 & M3	Impact Night time Noise monitoring for M1, M2 & M3				
	Daytime & Evening Noise monitoring for M1, M2 & M3	Night time Noise monitoring for M1, M2 & M3				
23 24	4	25	26	27 22	8	29
	Impact Daytime & Evening Noise monitoring for M1, M2 & M3	Impact Night time Noise monitoring for M1, M2 & M3			Impact Ecology monitoring for WBSE	
	Daytime & Evening Noise monitoring for M1, M2 & M3	Night time Noise monitoring for M1, M2 & M3			22 nd Quarterly Coral Monitoring at Indirect Impact Site and Control Site	
					· · · · · · · · · · · · · · · · · · ·	
30						
		1		1		1
Remarks: 1. Daytime Noise Monitoring (07:00-1900), Evening Time Noise Monitoring (1900-2300). I	Night Time Noise Monitoring (2300-0700)					
 Daytime Noise Monitoring (07:00-1900), Evening Time Noise Monitoring (1900-2300), Water Quality Monitoring for \$1,\$2 and \$3 will only conduct during DCM works, refer t No marine construction work is tentatively scheduled to be carried out in June 2024 	to Detailed DCM Plan					
the manne control octory work is control or your control of the control of the source of the sour						

Appendix D Event / Action Plan for Water Quality Exceedance

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

Event	Action								
	ET	IEC	SO	Contractor					
Limit level	Inform the SO and confirm	Discuss with ET and	Discuss with IEC, ET and	Inform the SO and confirm					
being exceeded	notification of the non-	Contractor on the mitigation	Contractor on the proposed	notification of the non-					
by one	compliance in writing;	measures;	mitigation measures;	compliance in writing;					
sampling day	Rectify unacceptable practice;	Review proposals on	Request Contractor to	Rectify unacceptable practice;					
	Check all plant and	mitigation measures submitted	critically review the working	Check all plant and					
	equipment;	by Contractor and advise the	methods;	equipment;					
	Consider changes of working	SO accordingly;	Make agreement on the	Consider changes of working					
	methods;	Assess the effectiveness of	mitigation measures to be	methods;					
	Discuss with Contractor, IEC	the implemented mitigation	implemented.	Discuss with ET, IEC and SO					
	and SO and propose	measures.	Assess the effectiveness of	and propose mitigation					
	mitigation measures to IEC	(The above actions should be	the implemented measures.	measures to IEC and SO					
	and SO within 3 working days;	taken within 1 working day	(The above actions should be	within 3 working days;					
	Implement the agreed	after the exceedance is	taken within 1 working day	Implement the agreed					
	mitigation measures.	identified)	after the exceedance is	mitigation measures.					
	(The above actions should be		identified)	(The above actions should be					
	taken within 1 working day			taken within 1 working day					
	after the exceedance is			after the exceedance is					
	identified)			identified)					

Event		Action								
	ET	IEC	SO	Contractor						
Limit level	Identify source(s) of impact;	Discuss with ET and	Discuss with IEC, ET and	Inform the SO and confirm						
being exceeded	Inform IEC, Contractor and	Contractor on the mitigation	Contractor on the proposed	notification of the non-						
by more than	EPD;	measures;	mitigation measures;	compliance in writing;						
one	Check monitoring data, all	Review proposals on	Request Contractor to	Rectify unacceptable practice;						
consecutive	plant, equipment and	mitigation measures submitted	critically review the working	Check all plant and						
sampling days	Contractor's working methods.	by Contractor and advise the	methods;	equipment;						
	Discuss mitigation measures	SO accordingly;	Make agreement on the	Consider changes of working						
	with IEC, SO and Contractor.	Assess the effectiveness of	mitigation measures to be	methods;						
	Ensure mitigation measures	the implemented mitigation	implemented.	Discuss with ET, IEC and SO						
	are implemented;	measures.	Assess the effectiveness of	and propose mitigation						
	Increase the monitoring	(The above actions should be	the implemented measures.	measures to IEC and SO						
	frequency to daily until no	taken within 1 working day	Consider and instruct, if	within 3 working days;						
	exceedance of Limit level for	after Limit Level being	necessary, the Contractor to	Implement the agreed						
	two consecutive days.	exceeded by two consecutive	slow down or to stop all or part	mitigation measures;						
	(The above actions should be	sampling days)	of the marine work until no	As directed by the SOR, to						
	taken within 1 working day		exceedance of Limit level.	slow down or to stop all or part						
	after Limit Level being		(The above actions should be	of the marine work or						
	exceeded by two consecutive		taken within 1 working day	construction activities.						
	sampling days)		after Limit Level being	(The above actions should be						
			exceeded by two consecutive	taken within 1 working day						
			sampling days)	after Limit Level being						
				exceeded by two consecutive						
				sampling days)						

Appendix E Noise Monitoring Equipment Calibration Certificate

Certificate of Calibration

for

Description:	Sound Level Meter
Manufacturer:	SVANTEK
Type No.:	971 (Serial No.: 96063)
Microphone:	ACO 7052E (Serial No.:79778)
Preamplifier:	SVANTEK SV 18 (Serial No.:97276)

Submitted by:

Customer:	Acuity Sustainability Consulting Limited
Address:	Unit E, 12/F., Ford Glory Plaza,
	Nos. 37-39 Wing Hong Street,
	Cheung Sha Wan, Kowloon, Hong Kong

Upon receipt for calibration, the instrument was found to be:

✓ Within (31.5Hz – 8kHz)□ Outside

the allowable tolerance.

The test equipment used for calibration are traceable to National Standards via:

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory

Date of receipt: 27 July 2023

Date of calibration: 3 August 2023

Date of NEXT calibration: 2 August 2024

Calibrated by: **Calibration** Technician

Date of issue: 3 August 2023

Certificate No.: APJ23-049-CC002

Certified by:

Mr. Ng Yan Wa Laboratory Manager

Page 1 of 4

(A+A)*L Acoustics and Air Testing Laboratory Co. Ltd. 聲學及空氣測試實驗室有限公司

1. Calibration Precaution:

- The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 24 hours, and switched on to warm up for over 10 minutes before the commencement of the test.
- The results presented are the mean of 3 measurements at each calibration point.

2. Calibration Conditions:

Air Temperature:	22.6 °C			
Air Pressure:	1006 hPa			
Relative Humidity:	52.9 %			

3. Calibration Equipment:

	Туре	Serial No.	Calibration Report Number	Traceable to
Multifunction Calibrator	B&K 4226	2288467	AV220061	HOKLAS

4. Calibration Results

Sound Pressure Level

Reference Sound Pressure Level

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1	
Range, dB	Freq.	Weighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
25.0-124.2	dBA	SPL	Fast	94	1000	93.7	±0.4

Linearity

Sett	ing of U	nit-under-t	est (UUT)	App	lied value	UUT Reading,	IEC 61672 Class 1
Range, dB	Freq.	Weighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
				94		93.7	Ref
25.0-124.2	dBA	SPL	Fast	104	1000	103.7	±0.3
				114		113.7	±0.3

Time Weighting

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1	
Range, dB	Freq. V	Veighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
25.0-124.2	dBA	SPL	Fast	04	1000	93.7	Ref
23.0-124.2 d	dBA SPL	Slow	94	1000	93.7	±0.3	

Certificate No.: APJ23-049-CC002



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Acoustics and Air Testing Laboratory Co. Ltd. 聲學及空氣測試實驗室有限公司

Frequency Response

Linear Response

Setting of Unit-under-test (UUT)			Appl	Applied value		IEC 61672 Class 1	
Range, dB	Freq. W	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
					31.5	94.3	±2.0
					63	94.2	±1.5
					125	94.1	±1.5
					250	94.1	±1.4
25.0-124.2	dB	SPL	Fast	94	500	94.0	±1.4
					1000	93.7	Ref
					2000	93.7	±1.6
					4000	95.1	±1.6
					8000	91.4	+2.1: -3.1

A-weighting

Setting of Unit-under-test (UUT)				Applied value		UUT Reading,	IEC 61672 Class 1
Range, dB	Freq. W	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
					31.5	55.0	-39.4 ±2.0
					63	68.1	-26.2 ± 1.5
					125	78.1	-16.1±1.5
		dBA SPL	Fast	94	250	85.4	-8.6±1.4
25.0-124.2	dBA				500	90.7	-3.2 ± 1.4
				1000	93.7	Ref	
					2000	94.9	$+1.2 \pm 1.6$
				4000	96.2	$+1.0\pm1.6$	
					8000	90.5	-1.1+2.1; -3.1

C-weighting

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1	
Range, dB	Freq. V	Veighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
					31.5	91.3	-3.0 ±2.0
					63	93.4	-0.8 ± 1.5
					125	94.0	-0.2 ± 1.5
					250	94.8	-0.0 ± 1.4
25.0-124.2	dBC	SPL	Fast	94	500	94.0	-0.0 ± 1.4
					1000	93.7	Ref
					2000	93.5	-0.2 ± 1.6
					4000	94.4	-0.8 ± 1.6
					8000	88.6	-3.0 +2.1: -3.1

Certificate No.: APJ23-049-CC002



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(A+A)*L Acoustics and Air Testing Laboratory Co. Ltd. 聲學及空氣測試實驗室有限公司

5. Calibration Results Applied

The results apply to the particular unit-under-test only. All calibration points are within manufacture's specification as IEC 61672 Class 1.

Uncertainties of Applied Value:

94 dB	31.5 Hz	± 0.10
	63 Hz	± 0.05
	125 Hz	± 0.05
	250 Hz	± 0.10
	500 Hz	± 0.05
	1000 Hz	± 0.05
	2000 Hz	± 0.05
	4000 Hz	± 0.05
	8000 Hz	± 0.10
104 dB	1000 Hz	± 0.05
114 dB	1000 Hz	± 0.05

The uncertainties are evaluated for a 95% confidence level.

Note:

The values given in this certification only related to the values measured at the time of the calibration and any uncertainties quoted will not allow for the equipment long-term drift, variations with environmental changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the calibration. (A+A)*L shall not be liable for any loss or damage resulting from the use of the equipment.



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Certificate No.: APJ23-049-CC002



Certificate of Calibration

for

Description:	Sound Level Meter
Manufacturer:	SVANTEK
Type No.:	SVAN 971 (Serial No.:C119577)
Microphone:	ACO 7052E (Serial No.: 78090)
Preamplifier:	SVANTEK SV-18 (Serial No.:103808)
	Submitted by:
Customer:	Acuity Sustainability Consulting Limited

Address:

Unit E, 12/F, Ford Glory Plaza, Nos. 37-39 Wing Hong Street, Cheung Sha Wan, Kowloon, Hong Kong

Upon receipt for calibration, the instrument was found to be:

✓ Within (31.5Hz − 8kHz)□ Outside

the allowable tolerance.

The test equipment used for calibration are traceable to National Standards via:

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory

Date of receipt: 19 October 2023

Date of calibration: 27 October 2023

Date of NEXT calibration: 26 October 2024

Calibrated by: Calibration Technician

Certified by:

Mr. Ng Yan Wa aboratory Manager



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Certificate No.: APJ23-091-CC004

Date of issue: 27 October 2023

Room 422,Leader Industrial Centre,57-59 Au Pui Wan Street ,Fo Tan, Shatin,N.T.,Hong Kong Tel: (852) 2668 3423 Fax:(852) 2668 6946 Homepage: http://www.aa-lab.com E-mail : inquiry@aa-lab.com

(A+A)*L Acoustics and Air Testing Laboratory Co. Ltd. 聲學及空氣測試實驗室有限公司

1. Calibration Precaution:

- The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 24 hours, and switched on to warm up for over 10 minutes before the commencement of the test.
- The results presented are the mean of 3 measurements at each calibration point.

2. Calibration Conditions:

Air Temperature:	24.5 °C
Air Pressure:	1013 hPa
Relative Humidity:	65.2 %

3. Calibration Equipment:

	Туре	Serial No.	Calibration Report Number	Traceable to	
Multifunction Calibrator	B&K 4226	2288467	AV220061	HOKLAS	

4. Calibration Results

Sound Pressure Level

Reference Sound Pressure Level

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1	
Range, dB	Freq. W	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
25-124.9	dBA	SPL	Fast	94	1000	94.0	±0.4

Linearity

Se	Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1
Range, dH	Freq.	Weighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
				94		94.0	Ref
25-124.9	dBA	A SPL	Fast	104	1000	104.0	±0.3
				114		114.0	±0.3

Time Weighting

Sett	Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1
Range, dB	Freq.	Weighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
25-124.9	dBA	SPL	Fast	94	1000	94.0	Ref
23-124.9	ubA	SPL	Slow	94	1000	94.0	±0.3

Certificate No.: APJ23-091-CC004



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Acoustics and Air Testing Laboratory Co. Ltd. 聲學及空氣測試實驗室有限公司

Frequency Response

Linear Response

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1	
Range, dB	Freq.	Weighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
					31.5	94.3	±2.0
					63	94.2	±1.5
					125	94.1	±1.5
					250	94.1	±1.4
25-124.9	dB	SPL	Fast	94	500	94.1	±1.4
					1000	94.0	Ref
				2000	93.9	±1.6	
					4000	93.4	±1.6
					8000	91.0	+2.1; -3.1

A-weighting

Set	Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1
Range, dB	Freq.	Weighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
					31.5	55.0	-39.4 ±2.0
					63	68.1	-26.2 ±1.5
					125	78.0	-16.1 ±1.5
					250	85.4	-8.6 ±1.4
25-124.9	dBA	SPL	Fast	94	500	90.8	-3.2 ±1.4
					1000	94.0	Ref
					2000	95.0	$+1.2 \pm 1.6$
					4000	94.4	$+1.0 \pm 1.6$
					8000	90.0	-1.1 +2.1; -3.1

C-weighting

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1	
Range, dB	Freq. V	Veighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
					31.5	91.3	-3.0 ±2.0
					63	93.4	-0.8 ±1.5
					125	94.0	-0.2 ±1.5
					250	94.1	-0.0 ±1.4
25-124.9	dBC	SPL	Fast	94	500	94.1	-0.0 ±1.4
					1000	94.0	Ref
					2000	93.7	-0.2 ±1.6
					4000	92.6	-0.8 ±1.6
					8000	88.1	-3.0 +2.1; -3.1

Certificate No.: APJ23-091-CC004



(A+A)*L Acoustics and Air Testing Laboratory Co. Ltd. 聲學及空氣測試實驗室有限公司

5. Calibration Results Applied

The results apply to the particular unit-under-test only. All calibration points are within manufacture's specification as IEC 61672 Class 1.

Uncertainties of Applied Value:

94 dB	31.5 Hz	± 0.10
	63 Hz	± 0.10
	125 Hz	± 0.05
	250 Hz	± 0.05
	500 Hz	± 0.05
	1000 Hz	\pm 0.05
	2000 Hz	± 0.05
	4000 Hz	± 0.05
	8000 Hz	± 0.10
104 dB	1000 Hz	± 0.05
114 dB	1000 Hz	± 0.05

The uncertainties are evaluated for a 95% confidence level.

Note:

The values given in this certification only related to the values measured at the time of the calibration and any uncertainties quoted will not allow for the equipment long-term drift, variations with environmental changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the calibration. (A+A)*L shall not be liable for any loss or damage resulting from the use of the equipment.



Page 4 of 4

Certificate No.: APJ23-091-CC004



Certificate of Calibration

for

Description:	Sound Level Meter
Manufacturer:	SVANTEK
Type No.:	SVAN 971 (Serial No.:C132261)
Microphone:	SV 7052E (Serial No.: 79778)
Preamplifier:	SVANTEK SV-18 (Serial No.:97276)
	Submitted by:
<i>a</i> ,	

Customer: Acuity Sustainability Consulting Limited Address: Unit E, 12/F, Ford Glory Plaza, Nos. 37-39 Wing Hong Street, Cheung Sha Wan, Kowloon, Hong Kong

Upon receipt for calibration, the instrument was found to be:

✓ Within (31.5Hz – 4kHz)□ Outside

the allowable tolerance.

The test equipment used for calibration are traceable to National Standards via:

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory

Date of receipt: 19 October 2023

Date of calibration: 27 October 2023

Date of NEXT calibration: 26 October 2024

Calibrated by: Calibration Technician

Certified by: Mr. Ng Yan Wa

Date of issue: 27 October 2023

Certificate No.: APJ23-091-CC006

Laboratory Manager

Room 422,Leader Industrial Centre,57-59 Au Pui Wan Street ,Fo Tan, Shatin,N.T.,Hong Kong Tel: (852) 2668 3423 Fax:(852) 2668 6946 Homepage: http://www.aa-lab.com E-mail : inquiry@aa-lab.com

Acoustics and Air Testing Laboratory Co. Ltd. 聲學及空氣測試實驗室有限公司 (A+A)*L

1. **Calibration Precaution:**

- The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 24 hours, and switched on to warm up for over 10 minutes before the commencement of the test.
- The results presented are the mean of 3 measurements at each calibration point. -

2. **Calibration Conditions:**

Air Temperature:	22.6 °C
Air Pressure:	1016 hPa
Relative Humidity:	65.3 %

3. Calibration Equipment:

	Туре	Serial No.	Calibration Report Number	Traceable to	
Multifunction Calibrator	B&K 4226	2288467	AV220061	HOKLAS	

Calibration Results 4.

Sound Pressure Level

Reference Sound Pressure Level

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1	
Range, dB	Freq. W	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
25-124.9	dBA	SPL	Fast	94	1000	94.0	±0.4

Linearity

Sett	Setting of Unit-under-test (UUT)			Appl	ied value	UUT Reading,	IEC 61672 Class 1		
Range, dB	Freq.	Weighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB		
						94		94.0	Ref
25-124.9	dBA	SPL	Fast	104	1000	104.0	±0.3		
				114		114.0	±0.3		

Time Weighting

Setting of Unit-under-test (UUT)			Appl	ied value	UUT Reading,	IEC 61672 Class 1	
Range, dB	Freq. W	/eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
25-124.9		dPA SPI Fast 04	94	1000	94.0	Ref	
25-124.9 dBA SPL	Slow	94	1000	94.0	±0.3		

Certificate No.: APJ23-091-CC006

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(A+A)*L Acoustics and Air Testing Laboratory Co. Ltd. 聲學及空氣測試實驗室有限公司

Frequency Response

Linear Response

Set	Setting of Unit-under-test (UUT)			Арр	lied value	UUT Reading,	IEC 61672 Class 1
Range, dB	Freq.	Weighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
	25-124.9 dB SPL			31.5	94.4	±2.0	
					63	94.3	±1.5
				125	94.2	±1.5	
25 124 0		CDI	Fast	94 -	250	94.1	±1.4
23-124.9		SFL			94	500	94.1
				1000	94.0	Ref	
				2000	93.8	±1.6	
					4000	93.3	±1.6

A-weighting

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1	
Range, dB	Freq.	Weighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
				31.5	55.1	-39.4 ±2.0	
				63	68.1	-26.2 ±1.5	
25-124.9 dBA SPL	Fast	94	125	78.1	-16.1 ±1.5		
			250	85.5	-8.6 ±1.4		
25-124.9	25-124.9 dBA SPL	rasi	94	500	90.8	-3.2 ±1.4	
			•		1000	94.0	Ref
				2000	95.0	+1.2 ±1.6	
					4000	94.3	$+1.0 \pm 1.6$

C-weighting

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1	
Range, dB	Freq.	Weighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
	25-124.9 dBC SPL Fast			31.5	91.4	-3.0 ±2.0	
					63	93.4	-0.8 ±1.5
				125	94.0	-0.2 ±1.5	
25-124.9			94	250	94.1	-0.0 ±1.4	
25-124.9	ubc	SPL	Fast	- 94	500	94.1	-0.0 ±1.4
					1000	94.0	Ref
					2000	93.6	-0.2 ±1.6
				4000	92.5	-0.8 ±1.6	

Certificate No.: APJ23-091-CC006



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(A+A)*L Acoustics and Air Testing Laboratory Co. Ltd. 聲學及空氣測試實驗室有限公司

5. Calibration Results Applied

The results apply to the particular unit-under-test only. All calibration points are within manufacture's specification as IEC 61672 Class 1.

Uncertainties of Applied Value:

94 dB	31.5 Hz	± 0.10
	63 Hz	± 0.10
	125 Hz	\pm 0.05
	250 Hz	± 0.05
	500 Hz	\pm 0.05
	1000 Hz	\pm 0.05
	2000 Hz	\pm 0.05
	4000 Hz	± 0.05
104 dB	1000 Hz	± 0.05
114 dB	1000 Hz	± 0.05

The uncertainties are evaluated for a 95% confidence level.

Note:

The values given in this certification only related to the values measured at the time of the calibration and any uncertainties quoted will not allow for the equipment long-term drift, variations with environmental changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the calibration. (A+A)*L shall not be liable for any loss or damage resulting from the use of the equipment.



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Certificate No.: APJ23-091-CC006

Certificate of Calibration

for

Sound Level Calibrator
RION
NC-75
34724243

Submitted by:

Customer: Acuity Sustainability Consulting Limited Address: Unit E, 12/F, Ford Glory Plaza, Nos. 37-39 Wing Hong Street, Cheung Sha Wan, Kowloon, Hong Kong

Upon receipt for calibration, the instrument was found to be:

\checkmark	Within
	Outside

the allowable tolerance.

The test equipments used for calibration are traceable to National Standards via:

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory

Date of receipt: 27 July 2023

Date of calibration: 3 August 2023

Date of NEXT calibration: 2 August 2024

Calibrated by: Calibration Technician

Date of issue: 3 August 2023

Certified by:

Mr. Ng Yan Wa Laboratory Manager

Certificate No.: APJ23-049-CC005

Page 1 of 2

(A+A)*L Acoustics and Air Testing Laboratory Co. Ltd. 聲學及空氣測試實驗室有限公司

1. Calibration Precautions:

- The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 24 hours, and switched on to warm up for over 10 minutes before the commencement of the test.
- The results presented are the mean of 3 measurements at each calibration point.

2. Calibration Specifications:

Calibration check

3. Calibration Conditions:

Air Temperature:	22.6 °C
Air Pressure:	1006 hPa
Relative Humidity:	52.9 %

4. Calibration Equipment:

Test Equipment	Туре	Serial No.	Calibration Report Number	Traceable to
Multifunction Calibrator	B&K 4226	2288467	AV220061	HOKLAS
Sound Level Meter	RION NA-28	30721812	AV220120	HOKLAS

5. Calibration Results

5.1 Sound Pressure Level

Nominal value	Accept lower level	Accept upper level	Measured value
dB	dB	dB	dB
94.0	93.6	94.4	94.0

Note:

The values given in this certification only related to the values measured at the time of the calibration.



Certificate No.: APJ23-049-CC005

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Appendix F Event / Action Plan for Noise Exceedance

Event Action	Actions to be taken by Environmental Team as immediate as practicable	Actions to be taken by Independent Environmental Checker as immediate as practicable 1. Review the investigation results	Actions to be taken by Supervising Officer's Representative as immediate as practicable 1. Confirm receipt of notification of	Actions to be taken by Contractor as immediate as practicable 1. Submit noise mitigation
Level being exceeded	2. Carry out investigation;	 submitted by the ET; Review the proposed remedial measures by the Contractor and advise the SO accordingly; Advise the SO on the effectiveness of the proposed remedial 	failure in writing;	 proposals to IEC and SO; Implement noise mitigation proposals. (The above actions should be taken within 2 working days after the exceedance is identified)
exceeded	 Inform IEC, SO, Contractor and EPD; Repeat measurements to confirm findings; Increase monitoring frequency; Identify source and investigate the cause of exceedance; Carry out analysis of Contractor's working procedures; Discuss with the IEC, Contractor and SO on remedial measures required; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and SO informed of the results; If exceedance stops, cease additional monitoring. (The above actions should be taken within 2 working days after the exceedance is identified) 	 Review Contractors remedial actions whenever necessary to assure their effectiveness and advise the SO accordingly. (The above actions should be taken within 2 working days after 	 In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented; Supervise the implementation of 	 Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC and SO within 3 working days of notification; Implement the agreed proposals; Submit further proposal if problem still not under control; Stop the relevant portion of works as instructed by the SO until the exceedance is abated. (The above actions should be taken within 2 working days after the exceedance is identified)

Appendix G Noise Monitoring Data

Location:	Shek Kwu Chau Treatment & Rehabilitation Centre Hostel 1 (M1 / N_S1)
Monitoring date:	03, 11, 17 and 24 June 2024 (Daytime)
	03&04, 11&12, 17&18 and 24&25 June 2024 (Evening & Nighttime)
Parameter :	Leq 30min (Daytime), Leq 5min (Evening & Night time)
Noise source other than construction activities from the Project:	Nil

Noise Monitoring Data:

Date	Start time		End time	Weather	$\frac{L_{eq 30min} dB(A) /}{L_{eq 5min} dB(A)}$	Sound Level Meter Used	Calibrator Used
02 June 2024	13:58	-	14:28	Cloudy	64.5	SVAN 971 (Serial No. C119577)	Rion NC-75 (No.34724243)
02 1	19:28	-	19:33	Fine	53.5		Rion NC-75 (No.34724243)
02 June 2024	20:23	-	20:28		53.0	SVAN 971 (Serial	
	21:23	-	21:28		52.6	No. C119577)	
02.1	1:23	-	1:28		52.1		Rion NC-75 (No.34724243)
03 June 2024	3:23	-	3:28	Fine	54.8	SVAN 971 (Serial	
2024	5:18	-	5:23		60.3	No. C119577)	
11 June 2024	13:41	-	14:11	Fine	65.4	SVAN 971 (Serial No. C119577)	Rion NC-75 (No.34724243)
11 Juna	19:41	-	19:46		53.4	SVAN 971 (Serial No. C119577)	Rion NC-75 (No.34724243)
11 June 2024	20:21	-	20:26	Fine	52.5		
2024	21:16	-	21:21		52.3	NO. C119377)	
12 June	1:11	-	1:16	Fine	51.0	SVAN 971 (Serial	Rion NC-75 (No.34724243)
2024	3:11	-	3:16		49.1	No. C119577)	
2024	5:11	-	5:16		53.7		
17 June 2024	13:37	-	14:07	Sunny	60.8	SVAN 971 (Serial No. C119577)	Rion NC-75 (No.34724243)
17 I	19:22	-	19:27	Fine	53.5	SVAN 971 (Serial No. C119577)	Rion NC-75 (No.34724243)
17 June 2024	20:27	-	20:32		51.0		
2024	21:17	-	21:22		51.4		
18 June	1:07	-	1:12	Fine	49.1	SVAN 971 (Serial No. C119577)	Rion NC-75 (No.34724243)
2024	3:17	-	3:22		47.9		
2024	4:57	-	5:02		57.4		
24 June 2024	14:17	-	14:47	Fine	67.1	SVAN 971 (Serial No. C119577)	Rion NC-75 (No.34724243)
24 1	19:47	-	19:52	Fine	55.8	GVAN 071 (Carial	Diam NC 75
24 June 2024	20:27	-	20:32		58.3	SVAN 971 (Serial	Rion NC-75
2024	21:52	-	21:57		57.5	No. C119577)	(No.34724243)
25 June -	1:17	-	1:22		56.0	QUANO71 (Comint	Dian NC 75
25 June 2024	3:17	-	3:22	Fine	56.0	SVAN 971 (Serial No. C119577)	Rion NC-75 (No.34724243)
2024	5:02	-	5:07		62.0	INU. C119577)	(110.34724243)

Location:	Shek Kwu Chau Treatment & Rehabilitation Centre Hostel 2 (M2 / N_S2)
Monitoring date:	03, 11, 17 and 24 June 2024 (Daytime)
	03&04, 11&12, 17&18 and 24&25 June 2024 (Evening & Nighttime)
Parameter :	Leq 30min (Daytime), Leq 5min (Evening & Night time)
Noise source other than construction activities from the Project:	Nil

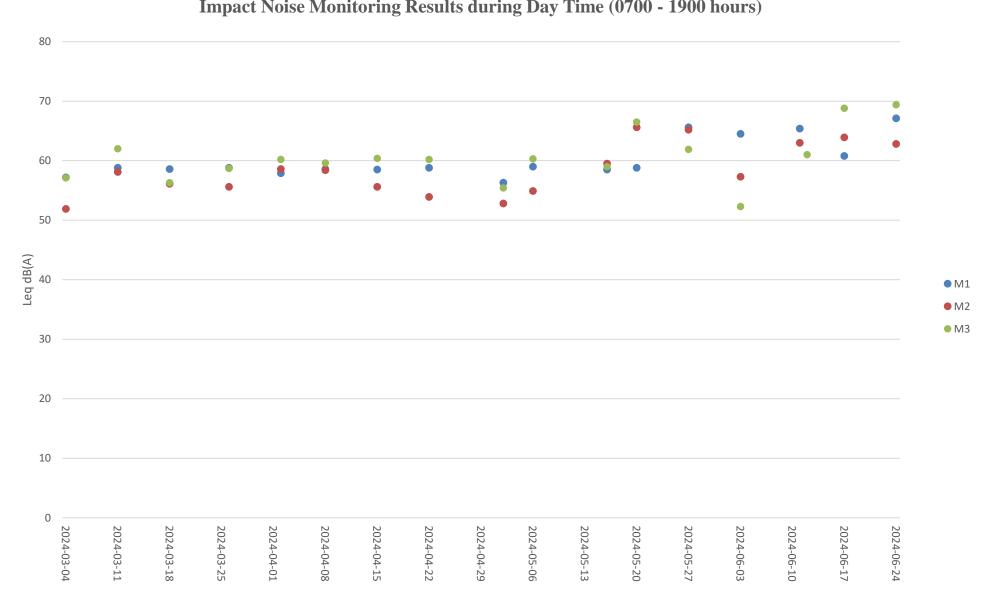
Noise Monitoring Data:

Date	Start time		End time	Weather	$\frac{L_{eq \ 30min} dB(A) /}{L_{eq \ 5min} dB(A)}$	Sound Level Meter Used	Calibrator Used	
02 June 2024	14:08	-	14:38	Cloudy	57.3	SVAN 971 (Serial No. 96063)	Rion NC-75 (No.34724243)	
02 1	19:23	-	19:28		52.5		Diam NO 75	
02 June 2024	20:28	-	20:33	Fine	52.1	SVAN 971 (Serial No. 96063)	Rion NC-75 (No.34724243)	
2024	21:28	-	21:33		53.2	INO. 90005)	(100.34724243)	
02 1	1:23	-	1:28		54.9	QUAN 071 (Carial	Diam NC 75	
03 June 2024	3:28	-	3:33	Fine	56.5	SVAN 971 (Serial	Rion NC-75	
2024	5:33	-	5:38		59.0	No. 96063)	(No.34724243)	
11 June 2024	13:54	-	14:24	Fine	63.0	SVAN 971 (Serial No. 96063)	Rion NC-75 (No.34724243)	
11 T	19:44	-	19:49		52.8		Diam NO 75	
11 June 2024	20:24	-	20:29	Fine	52.2	SVAN 971 (Serial No. 96063)	Rion NC-75 (No.34724243)	
2024	21:14	-	21:19		52.1	INO. 90005)	(100.34724243)	
10 June	1:14	-	1:19		51.0	SVAN 071 (Seriel	Diam NC 75	
12 June 2024	3:14	-	3:19	Fine	49.8	SVAN 971 (Serial	Rion NC-75 (No.34724243)	
2024	5:19	-	5:24		52.4	No. 96063)	(1N0.34/24243)	
17 June 2024	13:48	-	14:18	Sunny	63.9	SVAN 971 (Serial No. 96063)	Rion NC-75 (No.34724243)	
17 I	19:28	-	19:33		53.8	QUAN 071 (Q 1	D: NO 75	
17 June 2024	20:33	-	20:38	Fine	53.0	SVAN 971 (Serial	Rion NC-75	
2024	21:18	-	21:23		53.3	No. 96063)	(No.34724243)	
10 I	1:08	-	1:13		50.6	$\mathbf{GVAN} = 0.71 (0 + 0.71)$	D' NO 75	
18 June 2024	3:18	-	3:23	Fine	49.4	SVAN 971 (Serial	Rion NC-75	
2024	4:58	-	5:03		50.8	No. 96063)	(No.34724243)	
24 June 2024	14:26	-	14:56	Fine	62.8	SVAN 971 (Serial No. 96063)	Rion NC-75 (No.34724243)	
24.1	19:41	-	19:46		52.3		D: NO 75	
24 June 2024	20:26	-	20:31	Fine	52.1	SVAN 971 (Serial	Rion NC-75	
2024	21:51	-	21:56]	51.7	No. 96063)	(No.34724243)	
25 I	1:16	-	1:21		50.6		Disc NO 75	
25 June 2024	3:16	-	3:21	Fine	49.2	SVAN 971 (Serial No. 96063)	Rion NC-75	
2024	5:11	-	5:16		51.2	NO. 90003)	(No.34724243)	

Location:	Shek Kwu Chau Treatment & Rehabilitation Centre Hostel 3 (M3 / N_S3)
Monitoring date:	03, 12, 17 and 24 June 2024 (Daytime)
	03&04, 12&13, 17&18 and 24&25 June 2024 (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, Construction works of Signal Tower

Noise Monitoring data:

Date	Start time		End time	Weather	$\frac{L_{eq\;30min}dB(A)}{L_{eq\;5min}dB(A)}$	Sound Level Meter Used	Calibrator Used	
02 June 2024	13:50	-	14:20	Cloudy	52.3	SVAN 971 (Serial No. C132261)	Rion NC-75 (No.34724243)	
02 1	19:20	-	19:25		51.3	$\mathbf{GVAN} = 0.71 (0 \cdot 0.71)$	Diam NC 75	
02 June 2024	20:25	-	20:30	Fine	51.5	SVAN 971 (Serial	Rion NC-75 (No.34724243)	
2024	21:20	-	21:25		51.3	No. C132261)	(1N0.34724243)	
02.1	1:25	-	1:30		51.9		D: NO 75	
03 June 2024	3:15	-	3:20	Fine	53.6	SVAN 971 (Serial	Rion NC-75	
2024	5:30	-	5:35		52.6	No. C132261)	(No.34724243)	
12 June 2024	13:44	-	14:14	Fine	61	SVAN 971 (Serial No. C132261)	Rion NC-75 (No.34724243)	
10 June	19:44	-	19:49		51.5	SVAN 071 (Seriel	Dian NC 75	
12 June 2024	20:24	-	20:29	Fine	54.9	SVAN 971 (Serial No. C132261)	Rion NC-75 (No.34724243)	
2024	21:24	-	21:29		53.9	100. C152201)	(1N0.34724243)	
13 June	1:34	-	1:39		53.3	SVAN 071 (Seriel	Rion NC-75	
2024	3:29	-	3:34	Fine	52.9	SVAN 971 (Serial No. C132261)	(No.34724243)	
2024	5:19	-	5:24		55.4	100. C152201)	(1N0.34724243)	
17 June 2024	11:37	-	12:07	Sunny	68.8	SVAN 971 (Serial No. C132261)	Rion NC-75 (No.34724243)	
17 I	19:47	-	19:52		65.2	QVAN071 (0 1	D: NO 75	
17 June 2024	20:32	-	20:37	Fine	63.9	SVAN 971 (Serial	Rion NC-75	
2024	21:17	-	21:22		63.3	No. C132261)	(No.34724243)	
10 I	1:32	-	1:37		58.7	$\mathbf{GVAN} = 0.71 (0 \cdot 0.71)$	Diam NC 75	
18 June 2024	3:07	-	3:12	Fine	58.9	SVAN 971 (Serial	Rion NC-75	
2024	5:02	-	5:07		60.9	No. C132261)	(No.34724243)	
24 June 2024	13:10	-	13:40	Fine	69.4	SVAN 971 (Serial No. C132261)	Rion NC-75 (No.34724243)	
24 1	19:45	-	19:50		61.1	$\mathbf{GVAN} = 0.71 (0 \cdot 0.71)$	Dian NC 75	
24 June 2024	20:20	-	20:25	Fine	57.9	SVAN 971 (Serial	Rion NC-75	
2024	21:20	-	21:25		59.3	No. C132261)	(No.34724243)	
25 I	1:20	-	1:25		65.5	SVAN 071 (Cariel	Dian NO 75	
25 June 2024	3:40	-	3:45	Fine	59.9	SVAN 971 (Serial No. C132261)	l Rion NC-75 (No.34724243)	
2024	5:05	-	5:10		63.3	INU. C152201)		

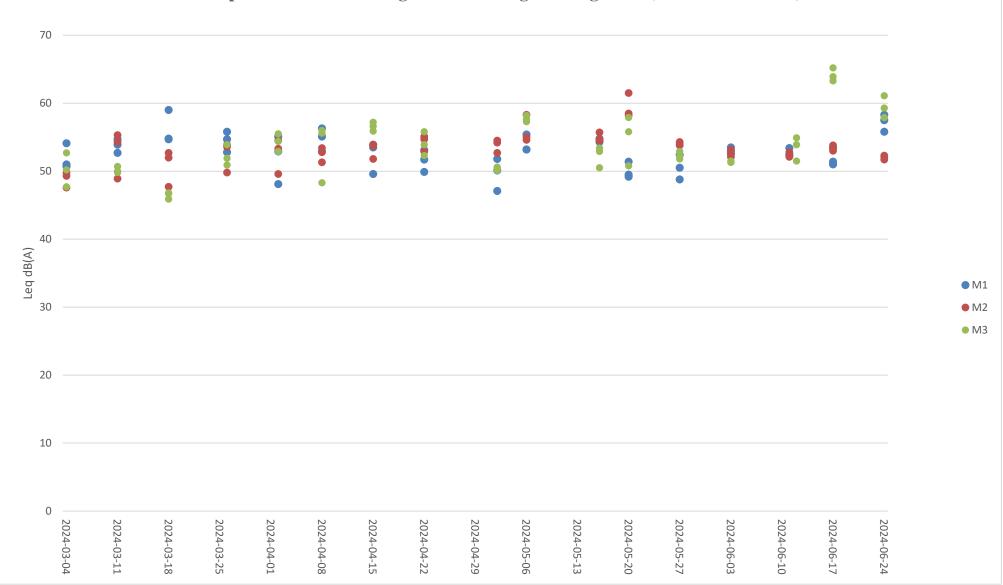


Impact Noise Monitoring Results during Day Time (0700 - 1900 hours)

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 G.

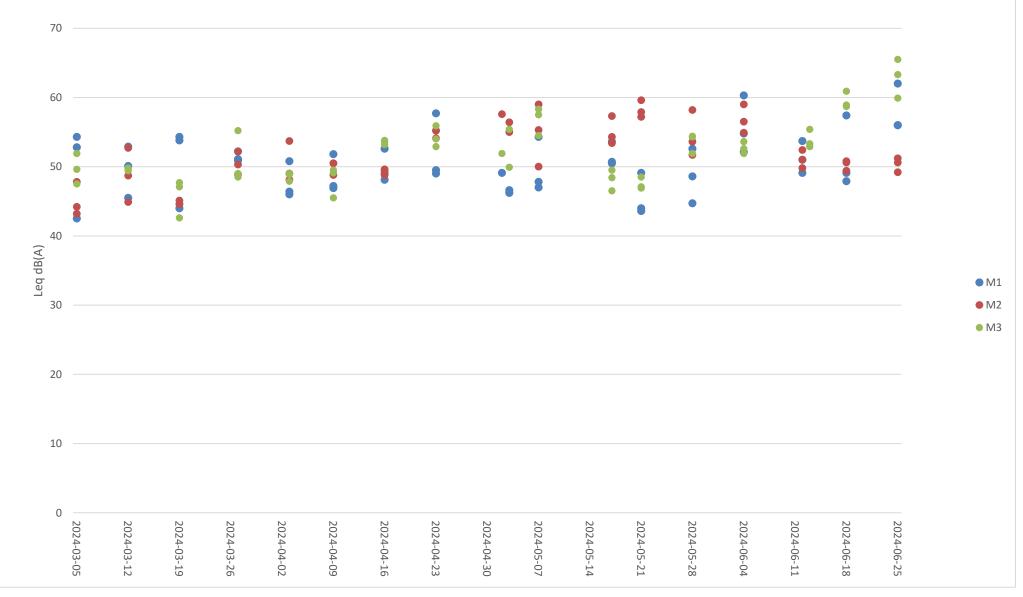


Additional Impact Noise Monitoring Results during Evening Time (1900 - 2300 hours)

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 G.



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 G.

Appendix H Waste Flow Table



Monthly Summary Waste Flow Table for _____

<u>2018 (year)</u>

Project : Integrated Waste Management Facilities, Phase 1

Contract No.: EP/SP/66/12

		Actual (Quantities of	f Inert C&D	Materials Ger	nerated Mon	thly		Actual Quantities of C&D Wastes Generated Monthly					lonthly
Month	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)	Chemica	l Waste	Others, e.g. general refuse (see Note 3)
	(in ,000m ³)	(in ,000m ³)	(in ,000m ³)	(in ,000m ³	(in ,000m ³)	(i	$(n,000m^3)$		(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 $6.5m^3$ by volume.

(4) Use the conversion factor: sand density = $1.6T/m^3$, public fill density = $1.8T/m^3$ and rock density = $2T/m^3$

(5) Materials recycled.



Monthly Summary Waste Flow Table for



2019

(year)

Project : In	ject : Integrated Waste Management Facilities, Phase 1								1		Con	tract No.: EP	/SP/66/12	
		Actual	Quantities of	Inert C&D	Materials Gei	nerated Mon	thly			Actual	Quantities of	C&D Wastes	Generated M	onthly
Month	Total Quantity Generated	Hard Rock and Large Broken Concrete (see Note 1)	Reused in the Contract	Reused in other Projects	Public Fill (see Note 4)	Imported Fill Sand (see Note 4)	Fill Public fill (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)	(1	in ,000m ³)	1	(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

Broken concrete for recycling into aggregates. Notes: (1)

Plastics refer to plastic bottles/ containers, plastic sheets/ foam from packaging materials. (2)

Use the conversion factor : 1 full load of dumping truck being equivalent to $6.5m^3$ by volume. (3)

Use the conversion factor: sand density = $1.6T/m^3$, public fill density = $1.8T/m^3$ and rock density = $2T/m^3$ (4)

(5) Materials recycled.



Monthly Summary Waste Flow Table for _____



2020

(year)

Project : Integrated Waste Management Facilities, Phase 1 Contract No.: EP/SP/66/12 Actual Quantities of Inert C&D Materials Generated Monthly Actual Quantities of C&D Wastes Generated Monthly Imported Imported Imported Hard Rock Paper/ Fill Fill Fill and Large Reused in Disposed as Others, e.g. general Metals cardboard Total Reused in Plastics Month Broken Public Rock Sand Public Fill refuse packaging Chemical Waste the other (see Note (see Note 2, Quantity Concrete fill (see Note (see Note (see Note Generated Contract Projects 5) 5) (see Note 4) (see Note 3) (see Note 4) (see Note 4) 5) 1) 4) $(in,000m^3)$ $(in,000m^3)$ $(in,000m^3)$ $(in,000m^3)$ $(in, 000m^3)$ $(in, 000m^3)$ (in ,000kg) (in ,000kg) (in ,000 kg) (in ,000kg) (in ,000L) $(in, 000 \text{ m}^3)$ 0 0 0 0 0 37.1550 25.0812 0 0 0 0 0 0.0065 Jan 0 27.7910 Feb 0 0 0 0 0 0 18.8300 0 0 0 0 0 0.0065 0 0 0 0 0 22.5669 0 26.1586 0 0 0 0 7.2000 0.0065 Mar 0 0 0 0 0 0 0 0 0 12.7800 0 10.1825 0 0.0195 Apr 0 0 0 0 0 16.1138 0 24.3740 0 0.4220 0 0 0 0.0195 May 0 0 0 0 0 31.5177 0 28.3030 0 0 0 0 0 0.0065 Jun 0 0 Sub-total 0 0 0 0 0 147.9244 132.9293 0 0.4220 0 7.2000 0.0650 0 0 0 0 0 0 34.7856 17.0606 35.1800 0 0 0 0 0.0195 Jul 65.5667 0 0 0 0 0 27.1375 27.9335 0 0 0 0 0 0 Aug 110.1328 43.5435 Sep 0 0 0 0 0 11.9813 0 0 0 0 0 0.0195 0 0 0 0 0 2.8213 131.6600 22.5415 0 0 0 0 0 0.0130 Oct 0 0 0 0 0 Nov 0 0 162.1811 44.6475 0.4090 0 0 0.4000 0.0130 174.9800 57.8380 0 0 0 Dec 0 0 0 0 0 0 0 0 0.0130 0 0 224.6501 661.5812 364.6133 0 0 0 0 0.8310 0 0 7.6000 Total 0.1430

(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 $6.5m^3$ by volume.

(4) Use the conversion factor: sand density = $1.6T/m^3$, public fill density = $1.8T/m^3$ and rock density = $2T/m^3$

(5) Materials recycled.



Monthly Summary Waste Flow Table for _____

<u>2021 (year)</u>

Project : Integrated Waste Management Facilities, Phase 1 Contract No.: EP/SP/66/12 Actual Quantities of Inert C&D Materials Generated Monthly Actual Quantities of C&D Wastes Generated Monthly Hard Rock Imported Imported Imported Paper/ and Large Fill Fill Fill Reused in Disposed as Metals Others, e.g. general Total Reused in cardboard Plastics Month Broken Public fill Sand Rock refuse Public Fill packaging Chemical Waste Quantity the other (see Note (see Note 2. Concrete (see Note (see Note (see Note (see Note 5) 5) Generated Contract Projects (see Note 4) (see Note 3) (see Note 4) 4) 4) 5) 1) $(in,000m^3)$ $(in,000m^3)$ $(in,000m^3)$ $(in,000m^3)$ $(in,000m^3)$ $(in,000m^3)$ $(in,000m^3)$ (in ,000 kg) (in ,000kg) (in ,000kg) (in ,000kg) $(in,000 \text{ m}^3)$ (in .000L) 0 0 0 0 0 0 198.1311 0 0 0 0 0 36.4775 0.0065 Jan 0 0 0 0 0 0 0 0 0 0 0 Feb 143.9511 20.9960 0.6305 0 0 0 0 0 0 103.1833 23.4510 0 0 0 0 0 0.0130 Mar 0 0 0 0 0 0 161.2956 0 Apr 27.2810 0 0 0 0 0.0130 0 0 0 0 0 0 0 0 0 193.3300 0 0 0.0715 May 20.5265 0 0 0 0 0 23.7825 0 0 0 0 141.5728 0 0.2440 0.0455 Jun 0 0 0 0 0 0 941.4639 152.5145 0 0.2440 0 0 0 0.7800 Sub-total 0 0 0 0 0 0 105.1083 30.6065 0 0 0 0 0 0.0195 Jul 0 0 0 0 0 0 0 11.1822 7.5180 0 0 0 0 0.0130 Aug 0 0 0 Sep 0 0 0 0 5.7575 0 0 0 0 0.6000 0.0390 0 0 0 0 0 0 0 0 0 0 0 0 6.8885 0 Oct 0 0 0 0 0 0 0 0 6.2975 0 0.1610 0 0 0.0130 Nov Dec 0 0 0 0 0 0 0 5.9235 0 0 0 0 0 0 0 0 0 Total 0 0 0 1057.7544 215.5060 0 0.4050 0 0 0.6000 0.8645

(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 $6.5m^3$ by volume.

(4) Use the conversion factor: sand density = $1.6T/m^3$, public fill density = $1.8T/m^3$ and rock density = $2T/m^3$.

(5) Materials recycled.



Monthly Summary Waste Flow Table for



2022

(year)

Project : In	ntegrated W	aste Manag	gement Faci	ilities, Phas	e 1				Contract No.: EP/SP/66/12					
		Actual	Quantities of	of Inert C&E	O Materials Ge	enerated Mo	nthly			Actual	Quantities of	C&D Wastes	Generated M	lonthly
Month	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	$(in,000m^3)$		$(in,000m^3)$	T	(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

(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 $6.5m^3$ by volume.

(4) Use the conversion factor: sand density = $1.6T/m^3$, public fill density = $1.8T/m^3$ and rock density = $2T/m^3$.

(5) Materials recycled.



Monthly Summary Waste Flow Table for _



2023

(year)

Project : Ir	ntegrated W	aste Manag	gement Faci	ilities, Phas	e 1				1		Con	tract No.: EP	/SP/66/12	
		Actual	Quantities of	of Inert C&E	Materials Ge	enerated Mo	nthly			Actual	Quantities of	C&D Wastes	Generated M	lonthly
Month	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	$(in,000m^3)$		$(in,000m^3)$	1	(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

(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 $6.5m^3$ by volume.

(4) Use the conversion factor: sand density = $1.6T/m^3$, public fill density = $1.8T/m^3$ and rock density = $2T/m^3$.

(5) Materials recycled.



Monthly Summary Waste Flow Table for



2024

(year)

Project : In	ntegrated W	aste Manag	gement Faci	lities, Phas	e 1						Con	tract No.: EP	/SP/66/12	
		Actual	Quantities of	of Inert C&E	O Materials G	enerated Mo	nthly			Actual	Quantities of	C&D Wastes	Generated M	onthly
Month	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)	Sand	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)	Chemica	l Waste	Others, e.g. general refuse (see Note 3)
	$(in,000m^3)$	(in ,000m ³)	(in ,000m ³)	(in ,000m ³	$(in,000m^3)$		$(in,000m^3)$	1	(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														
Aug														
Sep														
Oct														
Nov														
Dec														
Total	11.4253	0	0	6.3800	5.0453	0	0	0.5120	22.8700	0.9720	0	0	0	2.9510

Broken concrete for recycling into aggregates. (1)

Plastics refer to plastic bottles/ containers, plastic sheets/ foam from packaging materials. (2)

(3) Use the conversion factor : 1 full load of dumping truck being equivalent to 6.5m³ by volume.

Use the conversion factor: sand density = $1.6T/m^3$, public fill density = $1.8T/m^3$ and rock density = $2T/m^3$. (4)

(5) Materials recycled.

Appendix I Event / Action Plan for Coral Monitoring

Contract No. EP/SP/66/12 Integrated Waste Management Facilities, Phase 1

Keppel Seghers – Zhen Hua Joint Venture

Event	Action											
_	ET Leader II	EC S	o c	ontractor								
Exceedance	2. Inform the IEC, SO ,and	Discuss monitoring with the 1. ET and the Contractor; Review proposals for additional monitoring and any other measures submitted by the Contractor 2. and advise the SO accordingly.	Discuss with the IEC 1. additional monitoring requirements and any other measures proposed by the 2. ET; Make the agreement on the measures to be 3. implemented.	notification of the non-compliance in writing; Discuss with the ET and the IEC and propose measures to the IEC and the SO;								
Limit Level ¹ Exceedance	 Undertake Steps 1-4 as in 1. the Action Level Exceedance. If further 2. exceedance of Limit Level, propose enhancement measures for consideration. 	Discuss monitoring with the 1. ET and the Contractor; Review proposals for additional monitoring and any other measures submitted by the Contractor 2. and advise the SO accordingly.	Discuss with the IEC 1. additional monitoring requirements and any other measures proposed by the 2. ET; Make the agreement on the measures to be 3. implemented.	notification of the non-compliance in writing; Discuss with the ET and the IEC and propose measures to the IEC and the SO;								

Appendix J Event / Action Plan for White-Bellied Sea Eagle

Event	Action										
	Environmental	Audit Team	Contractor								
	Team										
Absence of White-bellied Sea Eagle during a whole day of monitoring.	Inform audit team. Increase monitoring frequency to daily.	 Inform site engineer and contractor. If the absence remains: Review construction activities and noise monitoring records of the associated period; Identify potential causes of the absence; Propose remedial measures, such as change of construction method and sequence; Confirm the feasibility of the proposed remedial measures with site engineer and contractor; Discuss with environmental team about the effectiveness of the proposed remedial measures. 	Implement the agreed remedial measures.								

Appendix K Exceedance Report

Integrated Waste Management Facilities, Phase 1

	Noise (Day Time)								
Location	Action Level	Limit Level	Total						
M1	0	0	0						
M2	0	0	0						
M3	0	0	0						
Noise (Evening Time)									
Location	Action Level	Limit Level	Total						
M1	0	0	0						
M2	0	0	0						
M3	0	0	0						
	Noise (1	Night Time)							
Location	Action Level	Limit Level	Total						
M1	0	0	0						
M2	0	0	0						
M3	0	0	0						

Statistical Summary of Exceedances in the Reporting Period

Appendix L Complaint Log

Integrated Waste Management Facilities, Phase 1

Statistical Summary of Environmental Complaints

Reporting Period	Environmental Complaint Statistics			
	Frequency	Cumulative	Complaint Nature	
1 June 2024 - 30 June 2024	0	4	N/A	

Statistical Summary of Environmental Summons

Reporting Period	Environmental Summons Statistics			
	Frequency	Cumulative	Details	
1 June 2024 -	0	0	N/A	
30 June 2024	0	0		

Statistical Summary of Environmental Prosecution

Reporting	Environmental Prosecution Statistics			
Period	Frequency Cumulative		Details	
1 June 2024 -	0	0	N/A	
30 June 2024	0	0		

Appendix M Impact Monitoring Schedule of Next Reporting Month

Impact Monitoring Scholules for IWMP						
Sun .	Id-24 Man Tue Wed Tim Pei Sat					
Sen	1	2	3	4	5	5at 6
		Impact Daytime & Evening Noise monitoring for M1, M2 & M3	Impact Night time Noise monitoring for M1, M2 & M3			
7	8	9	10	11	12	13
	Impact Daytime & Evening Noise monitoring for M1, M2 & M3	Inpact Night time Noise monitoring for M1, M2 & M3				
14	15	16	17	18	19	20
	Impact Daytime & Evening Noise monitoring for M1, M2 & M3	Impact Night time Noise monitoring for M1, M2 & M3				
21	22	23	24	25	26	27
	Impact Daytime & Evening Noise monitoring for M1, M2 & M3	Inpact Night time Noise monitoring for M1, M2 & M3	Impact Ecology monitoring for WBSE			
28	29 Impact Daytime & Evening Noise monitoring for M1, M2 & M3	Impact Night time Noise monitoring for M1, M2 & M3	31			
Kemirás: Dogime Volio Menitoring (d7 12.5 2004), Pareling Time Noice Menitoring (2500-0700) A Company Menitoring for 51.52 and 51 will only conduct during DCM souths refer to Detailed DCM Plan 1. No matrix construction work is tentatively scheduled to be carried out in July 2024						