Our ref: 10-7-2024

10-7-2024 By hand

Environmental Protection Department
Environmental Assessment Division
Territory North Group
Sheung Shui, Fanling, Tai Po
27th floor, Southorn Centre,
130 Hennessy Road,
Wan Chai, Hong Kong
(Attn: Ms. CHANG Chia Chi, Maureen)

Dear Ms. CHANG,

Provision of Environmental Team consultancy for Design and Construction of Kong Nga Po Police Training Facilities (Programme no. 279LP) Quotation No. PMB202/8480/2022/A01/A Submission of monthly EM&A report in June 2024

We refer to the Environmental Permit (EP) No. FEP-01/510/2016 for the captioned project.

Pursuant to Condition 3.3 of the No. FEP-01/510/2016, please find enclosed four hard copies and one electronic copy of the monthly EM&A report, which has been verified by the IEC for your reference.

Thank you very much for your attention and please feel free to contact Mr. Lee at 9382 4204 should you require further information.

Yours faithfully,

For and on behalf of Ka Shing Management Consultant Limited

Applied Knowledge Center Limited Company Secretary

Encl. monthly EM&A report in June 2024





Date: 10 July 2024

Your ref:

Our ref: PL-202407012

Architectural Services Department 40/F, Queensway Government offices 66 Queensway, Hong Kong

Attn: Mr. Vincent Kwok

Dear Mr. Kwok,

Re: Contract No. SS K/509

Provision of Independent Environmental Checker Consultancy for Design and Construction of Kong Nga Po Police Training Facilities Verification of Monthly EM&A Report (June 2024)

Reference is made to the Monthly EM&A report (June 2024) provided by ET via email on 8 July 2024 and subsequent revision (Version 3) submitted on 10 July 2024.

Please be informed that we have no adverse comments on the revised Monthly EM&A report (June 2024) (Version 3). We hereby verify the submission is in accordance with Condition 3.4 of Environmental Permit No. FEP-01/510/2016.

Thank you for your attention.

Yours sincerely, For and on behalf of Acuity Sustainability Consulting Limited

Ir Y. H. LAW

Maar

Independent Environmental Checker

Ka Shing Management Consultancy Ltd. c.c.

## Provision of Environmental Team consultancy for Design and Construction of Kong Nga Po Police Training Facilities (Programme No. 279LP)

# Monthly Environmental Monitoring and Audit Report for June 2024 (Version 3)

#### Disclaimer

The information provided in this report is for presentation. All information in the report is provided in good faith, and every effort has been made for the information contained herein at the time of publication. However, our company disclaims all responsibilities and liabilities for incompleteness within this report.

Ka Shing Management Consultancy Ltd. www.ka-shign.net Unit 2, 13/F Kai Yue Commercial Building, 2C Argyle St, Mong Kok, Kowloon

Provision of Environmental Team consultancy for Design and Construction of Kong Nga Po Police Training Facilities (Programme no. 279LP) Monthly EM&A Report – June 2024

Our ref: 10-7-2024

10-7-2024

By email: kwokhw@archsd.gov.hk

Architectural Services Department 40/F, High Block, Queensway Government Offices, 66 Queensway, Hong Kong (Attn: Mr. Vincent Kwok)

Dear Mr. Kwok,

Re: Quotation No. PMB202/8480/2022/A01/A

Provision of Environmental Team consultancy for Design and Construction of Kong Nga Po Police Training Facilities (Programme no. 279LP)

-Submission of the monthly EM&A report in June 2024

We refer to the Environmental Permit No. FEP-01/510/2016 for the captioned project.

Subject to the accuracy and authenticity of all the information provided to us, we hereby certify, in accordance with Conditions 3.4 of Environmental Permit No. FEP-01/510/2016, that the information is a representation of what it signifies.

Thank you very much for your attention and please feel free to contact Mr. Lee at 9382 4204 should you require further information.

Yours faithfully,

For and on behalf of Ka Shing Management Consultant Limited

Mr. W. H. Lee

**Environmental Team Leader** 

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#### **EXECUTIVE SUMMARY**

#### Introduction

- E1. This document represents the 15th monthly report detailing the Environmental Monitoring and Audit (EM&A) activities for the Kong Nga Po Police Facilities Project, which operates under Environmental Permit No. FEP-01/510/2016. This report was prepared by Ka Shing Management Consultancy Ltd. (Ka Shing) under "Service Contract Quotation No. PMB202/8480/2022/A01/A Provision of Environmental Team consultancy for Design and Construction of Kong Nga Po Police Training Facilities" (hereinafter called the "Service Contract"). The report encapsulates the EM&A activities and findings carried out between the 1st and 30th of June 2024.
- E2. On the 23rd of December 2022, a section of the construction site was transferred to the Architectural Services Department (ArchSD), which assumed responsibility for the building's construction. Furthermore, ArchSD has taken on the role of maintenance agent for the Hong Kong Police Force (HKPF) throughout the operational phase.
- E3. In the month covered by this report, the Project of Police Facilities at Kong Nga Po, which operates under Environmental Permit No. FEP-01/510/2016, engaged in the following contractual work: Contract No. SSK509, which encompasses the design and construction of the Kong Nga Po Police Training Facilities.

#### **Environmental Monitoring and Audit Progress**

E4. A summary of the EM&A activities in this reporting month is listed in **Table I** below:

Table I Summary Table for EM&A Activities in the Reporting Month

•	1
EM&A Activities	Date
Noise Monitoring	06, 13, 19, 29 June 2024
Air Quality Monitoring	03, 06, 12, 18, 24, 29 June 2024
Environmental Site Inspection	3, 11, 18, 24 June 2024
Ecological Monitoring	24, 29 June 2024
Landscape & Visual Inspection	3, 11, 18, 24 June 2024

#### **Breaches of Action and Limit Levels**

E5. Summary of the environmental exceedances of the reporting month is tabulated in Table II.

#### **Construction Noise**

E6. During the reporting month, the planned noise monitoring for construction took place as scheduled, with no recorded incidents of the Action/Limit Levels being exceeded.

#### Air Quality

E7. Throughout the reporting period, all planned air quality monitoring associated with construction was executed, and there were no recorded instances where the Action/Limit Levels were surpassed.

Table II Summary Table for Events Recorded in the Reporting Month

Environmental Monitoring	Parameter	No. of Non-Project related Exceedances		No. of Exceedance related to the Construction Works of the Contract		Action Taken
		Action Level	Limit Level	Action Level	Limit Level	
Noise	$L_{eq(30 min)}$	0	0	0	0	N/A
Air Quality	1-hr TSP	0	0	0	0	N/A

#### **Ecological Monitoring**

E8. The ecological monitoring slated for the reporting month was conducted according to schedule. Details of the findings from this ecological monitoring for the respective period are available in **Appendix H.** 

#### **Environmental Non-Compliance**

E9. During the reporting month, no environmental compliance violations were documented.

#### **Environmental Complaint**

E10. No environmental complaints were recorded during the reporting period. In the event of any complaints, they would be documented in the Complaint Log found in **Appendix M**.

#### **Notification of Summons and Successful Prosecutions**

E11. Throughout the month covered in this report, there were no instances of receiving notifications regarding summons or confirmations of successful prosecutions.

#### **Reporting Changes**

E12. On the 23rd of December 2022, a section of the construction site was handed over to the Architectural Services Department (ArchSD). ArchSD has taken on the task of overseeing the construction activities for the building. This Monthly Environmental Monitoring and Audit (EM&A) Report offers a summary of the site operations and the status of the environmental safeguards being implemented under the contract with ArchSD.

#### **Future Key Issues**

- E13. The major site activities for the coming three months include:
  - 1. Open cut excavation
  - 2. Removal of soil

- 3. Construction of footings
- 4. Construction of pile cap
- 5. Construction of substructure
- 6. Construction of footbridge
- 7. Backfilling
- 8. Mock up construction
- 9. U.U. Lead in and Pipe Duct Connection
- E14. The aforementioned construction activities could potentially lead to environmental impacts, with the primary concerns centered around construction dust, noise, water quality, and waste management. For detailed information, please refer to **Appendix A** regarding the anticipated major impacts from the construction works and corresponding recommended mitigation measures.

#### 1 INTRODUCTION

- 1.1 The Architectural Services Department (ASD) has commissioned Ka Shing Management Consultancy Ltd. (Ka Shing) as the Environmental Team (ET) to conduct the Environmental Monitoring and Audit (EM&A) activities for the Kong Nga Po Police Facilities Project, as dictated by Environmental Permit No. FEP-01/510/2016.
- 1.2 The main construction activities for the Project began on the 3rd of July, 2020, and the primary location at Kong Nga Po was handed over to the Architectural Services Department (ASD) on the 23rd of December, 2022. The ASD has assumed control over the building construction tasks and will serve as the maintenance representative for the Hong Kong Police Force (HKPF) once the project is operational.

#### Purpose of the report

1.3 This document constitutes the 15th EM&A Report, offering a consolidated overview of the monitoring outcomes for impacts and the audit results from the EM&A program over the reporting interval spanning from the 1st to the 30th June 2024.

#### Structure of the report

- 1.4 The structure of the report is as follows:
  - Section 1: Introduction
  - Section 2: Project Information
  - Section 3: Noise Monitoring
  - Section 4: Air Quality Monitoring
  - Section 5: Landscape and Visual Monitoring
  - Section 6: Ecological Monitoring
  - Section 7: Environmental Site Inspection.
  - Section 8: Environmental Non-conformance
  - Section 9: Future Key Issues
  - Section 10: Conclusions and Recommendations

#### 2 PROJECT INFORMATION

#### **Background**

- 2.1 The Project mainly includes construction and operation of various police facilities. The police facilities include:
  - (i) a helipad;
  - (ii) two firing ranges; and
  - (iii) other facilities, associated infrastructure & utilities, etc.
- 2.2 The Project falls under the category of a Designated Project as defined by the Environmental Impact Assessment Ordinance (EIAO). In October 2016, an Environmental Impact Assessment (EIA) Report (Report No.: AEIAR-201/2016) was approved for the Project in accordance with the EIA Study Brief (No. ESB-276/2014) and the Technical Memorandum on Environmental Impact Assessment Process (EIAO-TM). The corresponding Environmental Permit (EP no.: FEP-01/510/2016) was issued by the Director of Environmental Protection (DEP).
- 2.3 As per the approved Environmental Monitoring and Audit (EM&A) Manual, a comprehensive air quality and noise monitoring program is recommended during the construction phases of the Project to assess and monitor potential dust and noise nuisances. Prior to the commencement of the Project's construction works, baseline air quality and noise monitoring were conducted by the previous Environmental Team (Wellab Limited) from 14th March, 2020, to 2nd April, 2020, to establish the pre-existing conditions at designated sensitive receivers.
- 2.4 **Figure 1** displays the site layout plan for the Project.

#### **Project Organization**

2.5 Various stakeholders with varying degrees of participation are part of the Project's organizational structure under Environmental Permit number: FEP-01/510/2016, which includes:

Project Proponent – Architectural Services Department (ArchSD)

Contractor- China State JV

Environmental Team (ET) – Ka Shing Management Consultancy Ltd.

Independent Environmental Checker (IEC) – Acuity Sustainability Consulting Limited

2.6 **Table 2.1** summarizes the contact information for key personnel associated with Quotation No. PMB202/8480/2022/A01/A and additional contacts linked with the ArchSD Contract No. SSK509.

Table 2.1 Key Contacts of the Project

Party	Role	<b>Contact Person</b>	Phone No.	Fax No.
Architectural Services Department	Project Proponent	Mr. Vincent Kwok	2867 3939	3542 5223

	Site Agent	Mr. Kelvin Chan	6272 8828		
Contractor (China State JV)	Environmental	Ms. Marian Kong	6174 9735	2866 6325	
	Officer	Mr. LuLu Mar	5998 8852		
Ka Shing Management Consultancy Ltd.	ETL	Mr. W.H. Lee	2618 2166	2120 7752	
Acuity Sustainability Consulting Limited	IEC	Ir. Y.H. Law	2698 6833	2698 9383	

#### **Summary of Construction Works Undertaken During Reporting Month**

- 2.7 Significant site activities conducted on-site during the reporting month comprised:
  - 1. Open cut excavation
  - 2. Removal of soil
  - 3. Construction of footings
  - 4. Mock-up construction
  - 5. Construction of substructure
  - 6. Construction of footbridge
  - 7. Backfilling
  - 8. U.U. Lead in and Pipe Duct Connection

#### **Construction Programme**

- 2.8 **Appendix A** contains a version of the Contractors' construction schedules. The primary site activities planned by the Contractor for the upcoming three months have been examined. In **Appendix O**, the expected environmental impacts' potential severity and the deployment of equipment have been evaluated. This appendix additionally provides the Contractor with recommendations and insights on alternative approaches aimed at raising environmental consciousness, refining practices on the construction site, and fostering environmental improvements.
- 2.9 **Table 2.2** presents a consolidated overview of the pertinent environmental protection permits, licenses, and/or notifications associated with this Project.

Table 2.2 Status of Environmental Licences, Notifications and Permits

Downit / License No	Valid Period		Status	
Permit / Licence No.	From To			
Further Environmental Permit (FEP)				
FEP-01/510/2016	N/A N/A		Valid	
Construction Noise Permit (CNP)				
GW-RN0483-24	30-04-2024	29-07-2024	Valid	
Notification pursuant to Air Pollution Control (Construction Dust) Regulation				
EPD Ref no.: 487864	N/A	N/A	N/A	

Billing Account for Construction Waste Disposal			
Account No. 7046289 18-01-2023 N/A Valid			Valid
Registration of Chemical Waste Producer			
WPN5213-641-C4770-01	18-01-2023	N/A	Valid
Effluent Discharge Licence under Water Pollution Control Ordinance			
WT00043663-2023	21-04-2023	30-04-2028	Valid

#### **Summary of EM&A Requirement**

- 2.10 The Environmental Monitoring and Audit (EM&A) program includes the monitoring of construction noise, air quality, ecological conditions, and regular environmental site audits. The specific requirements for the EM&A program are outlined in the following sections:
  - Environmental requirements in contract documents;
  - Event / Action Plans;
  - Environmental mitigation measures, as recommended in the Project EIA study final report;
  - All monitoring parameters; and
  - Action and Limit levels for all environmental parameters.

#### **Status of Compliance with Environmental Permits Conditions**

2.11 **Table 2.3** provides a summary of the adherence to Environmental Permit (EP) No. FEP-01/510/2016 and the necessary submissions connected to this Project as stipulated by the EP.

Table 2.3 Summary Table for Status of Compliance / Required Submission under FEP No. FEP-01/510/2016

FEP Conditions	Submission	Submission Date	Approval Status
1.12	Commencement date of construction of the Project	30/3/2023	*
2.7	Proposal on the Reporting Mechanism and Curriculum Vitae of the IEC	20/3/2023	*
2.10	The date of setting up the Community Liaison Hotline and the contact details	27/2/2023	*
2.11	Management Organization of Main Construction Companies, at least an organization chart, names of responsible persons and their contact details	10/3/2023	*
2.12	Construction Works Schedule and Location Plans	10/3/2023	*
2.13	Layout plan for permeable pavings	29/3/2023 Supplementary information submitted on 23/3/2024	For approval

Provision of Environmental Team consultancy for Design and Construction of Kong Nga Po Police Training Facilities (Programme no. 279LP) Monthly EM&A Report – June 2024

	2.14	Landscape and visual mitigation plan	26/6/2023	For approval
	2.16	Plan for perimeter walls/ boundary wall sat project site and sidewalls of firing range	1 month before fence wall works	For approval
•	2.19	Submission of Helicopter Flight Plan	1 month before commencement of operation of Helipad	Notification
	3.3	Baseline Air Quality and Noise Monitoring Report	30/3/2023	Deposit
	4.2	Internet address of a dedicated web site	13/4/2023	*

Remarks: \* Approval not required in FEP-01/510/2016

#### 3 NOISE MONITORING

#### **Monitoring Requirements**

3.1 Following the EM&A Manual, monitoring of construction noise was performed by measuring the A-weighted equivalent continuous sound pressure level (Leq) to track noise generated by construction operations. Each monitoring station is scheduled for weekly noise assessments, with one set of readings to be taken from 0700 to 1900 hours on typical weekdays. The predefined Action/Limit Levels for the environmental monitoring activities are presented in **Appendix B**.

#### **Monitoring Location**

3.2 As per Section 3.2.3 of the EM&A Manual, impact noise monitoring took place at fourteen specified noise monitoring stations. Following the guidelines of the Project's Environmental Impact Assessment (EIA) report, noise monitoring stations situated within a 300-meter radius of the Project's boundary were taken into account. Consequently, six noise monitoring stations identified as relevant monitoring locations are depicted in Figure 3. The specific locations of these noise monitoring stations are detailed in **Table 3.1**.

Table 3.1 Location of Noise Monitoring Stations

Monitoring Station	Location of Measurement
NM9	Village House, Kong Nga Po
NM10	Village House, Kong Nga Po
NM11	Village House, Kong Nga Po
NM12	Village House, Kong Nga Po
NM13	Village House, Kong Nga Po
NM14	Village House, near Man Kam To Road

#### **Monitoring Equipment**

3.3 Impact noise monitoring was carried out using Integrating Sound Level Meters. These meters, classified as Type 1, are capable of providing continuous readings of noise levels, including the equivalent continuous sound pressure level (Leq) and percentile sound pressure level (Lx), and they conform to the specifications of International Electrotechnical Commission Publications 651:1979 (Type 1) and 804:1985 (Type 1). The noise monitoring equipment utilized is summarized in **Table 3.2**. The calibration certificates for these devices can be found in **Appendix C**.

Table 3.2 Noise Monitoring Equipment

Equipment	Model	Quantity
Sound Level Meter	BSWA 308	1
Sound Calibrator	ST120	1

#### Monitoring Parameters, Frequency and Duration

3.4 **Table 3.3** encapsulates the variables monitored, the frequency of monitoring, and the total time span of the noise monitoring activities. The schedule for noise monitoring can be located in **Appendix D.** 

Table 3.3 Noise Monitoring Parameters, Duration and Frequency

Monitoring Stations	Parameter	Duration	Frequency	Measurement
NM9	L10(30 min.) dB(A) <sup>[2]</sup>			Free field <sup>[1]</sup>
NM10	dB(A) <sup>r</sup>			Free field <sup>[1]</sup>
NM11	L90(30 min.)			Façade
NM12	$dB(A)^{[2]}$	0700-1900 hrs on	Once per	Façade
NM13	Leq(30 min.) dB(A) <sup>[2]</sup>	normal weekdays	week	Free field <sup>[1]</sup>
NM14	dB(A) <sup>[2]</sup> (as six consecutive Leq, 5min readings)			Free field <sup>[1]</sup>

#### Remarks:

L10 is the level exceeded for 10% of the time. For 10% of the time, the sound or noise has a sound pressure level above L10.

L90 is the level exceeded for 90% of the time. For 90% of the time, the noise level is above this level.

#### Monitoring Methodology and QA/QC Procedures

- 3.5 The procedures for noise monitoring were conducted in this manner:
  - The sound level meter was mounted on a tripod, positioned 1 meter away from the outside of the noise-sensitive facade and at a height of 1.2 meters above ground level;
  - To achieve free field measurement conditions, the meter was placed at a distance from any reflective surfaces, and the measured noise levels were then corrected by adding +3 dB(A);
  - The battery's condition was examined to guarantee the proper operation of the meter;
  - The settings for parameters like frequency weighting, time weighting, and measurement duration were established as detailed below:

-frequency weighting: A

-time weighting: Fast

-time measurement: Leg(30 min.) dB(A)

- Noise levels were measured as six consecutive Leq, 5-minute readings during the hours when restrictions did not apply (specifically, from 0700 to 1900 hrs on normal weekdays).
- Calibration of the meter was performed before and after each noise measurement session using a Calibrator set to 94.0 dB at 1000 Hz. Should there be a discrepancy greater than 1.0 dB in calibration levels pre- and post-measurement, the data would be deemed invalid. A

<sup>[1]:</sup> Correction of +3dB (A) for Free-field Measurement.

<sup>[2]:</sup> A-weighted equivalent continuous sound pressure level (Leq). It is the constant noise level which, under a given situation and time period, contains the same acoustic energy as the actual time-varying noise level.

repeat measurement would then be necessary following recalibration or repair of the equipment.

- Throughout the monitoring period, parameters such as Leq, L90, and L10 were documented. Observations regarding site conditions and noise origins were also noted on a standard recording form.
- Noise measurements were temporarily halted during instances of significant intrusive noise (for example, barking dogs or helicopter sounds), where feasible. An observation record for the measurement period was to be provided.
- Noise monitoring was suspended in conditions of fog, rain, or when wind speeds were consistently above 5 m/s, or during gusts surpassing 10 m/s. Wind speeds were verified using a portable anemometer capable of measuring speed in meters per second (m/s).

#### **Maintenance and Calibration**

- 3.6 Every three months, the microphone head of the sound level meter and the calibrator was gently wiped clean using a soft fabric.
- 3.7 Annually the sound level meter and calibrator underwent inspection and calibration.
- 3.8 Before and after conducting each noise measurement, the precision of the sound level meter must be verified with an acoustic calibrator that produces a set sound pressure level at a specific frequency. Only when the pre- and post-measurement calibration levels are within a 1.0 dB range of each other will the measurements be considered valid.

#### **Results and Observations**

3.9 **Table 3.4** provides a summary of the noise monitoring outcomes. For an in-depth account and visual depiction of the noise monitoring, refer to **Appendix F**. A summary of the meteorological data for the reporting period is compiled in **Appendix G**.

Table 3.4 Summary Table of Noise Monitoring Results during the Reporting Month

Manitanina Station	Average	Range	Baseline Level	Limit Level
Monitoring Station	Leq (30 min) dB(A)	Leq (30 min) dB(A)	dB(A)	dB(A)
NM9 <sup>[1]</sup>	56.3	51.2 – 64.9	55.9	
NM10 <sup>[1]</sup>	52.7	49.3 – 62.5	52.8	
NM11	54.7	47.2 – 64.5	46.4	75
NM12	58.2	47.5 - 70.4	54.7	73
NM13 <sup>[1]</sup>	55.5	39.7 – 62.8	61.3	
NM14 <sup>[1]</sup>	59.8	45.5 – 74.3	59.6	

Remarks: [1]: Correction of +3dB (A) for Free-field Measurement.

- 3.10 Noise monitoring related to construction activities took place according to the planned schedule for the month reported. There were no instances where the Action/Limit Levels were surpassed. A summary of exceedance records for the reporting month can be found in Appendix J.
- 3.11 Based on observations made in the field, the primary sources of noise detected at the allocated noise monitoring stations during the reporting month are as outlined below:

Table 3.5 Observation at Noise Monitoring Stations

Monitoring Station	Major Noise Source	
NM9	Loading & unloading, Road traffic, Excavation works	
NM10	Loading & unloading, Road traffic, Excavation works	
NM11	Road traffic	
NM12	Loading & unloading, Road traffic	
NM13	Loading & unloading, Road traffic	
NM14	Dog barking, Road traffic	

#### **Event and Action Plan**

3.12 If any non-compliance with the criteria related to the project arises, measures will be taken following the procedures outlined in the Event Action Plan provided in **Appendix I.** 

#### 4 AIR QUALITY MONITORING

#### **Monitoring Requirements**

- 4.1 As per the EM&A Manual, 1-hour Total Suspended Particulates (TSP) monitoring was carried out to keep track of the air quality associated with the Works Contracts. The predetermined Action/Limit Levels for the air quality monitoring activities are detailed in **Appendix B**.
- 4.2 Monitoring for 1-hour Total Suspended Particulates (TSP) impacts was performed at a minimum of three times within each six-day period at a designated air quality monitoring station.

#### **Monitoring Location**

4.3 In line with Section 2.2.5 of the EM&A Manual, impact air quality monitoring took place at two specified monitoring stations for the Project, as depicted in Figure 2. The positions of the air quality monitoring stations are detailed in **Table 4.1**.

Table 4.1 Location for Air Quality Monitoring Stations

Monitoring Station	Location of Measurement	
AM1	Village House, Kong Nga Po	
AM2	Village House, Kong Nga Po	

#### **Monitoring Equipment**

- 4.4 Due to the denial by local villagers to set up a High-Volume Sampler (HVS) for 1-hour Total Suspended Particulates (TSP) monitoring at the chosen locations and the inability to secure an electricity supply for the HVS, direct-reading dust meters were utilized instead to conduct the 1-hour TSP monitoring. Direct-reading dust meters are widely accepted instruments for measuring 1-hour TSP levels and have been used in the same infrastructure project. The issue to use direct-reading dust meters was presented to the Independent Environmental Checker (IEC). The application of the direct-reading dust meter allows for immediate and straightforward results, facilitating timely EM&A reporting and the execution of the event and action plan. To ensure the validity and accuracy of the readings obtained by the direct-reading method, the HVS performed 1-hour sampling on a bi-monthly schedule.
- 4.5 **Table 4.2** provides a summary of the apparatus employed in the impact air quality monitoring program. Copies of the calibration certificates for the equipment can be found in **Appendix C**.

Table 4.2 Air Quality Monitoring Equipment

Equipment	Model and Serial No.	Quantity	The valid period is until
Dust Monitor	AEROCET-831 / D12641	1	22 June 2024
Dust Monitor	AEROCET-831 / E11304	1	21 August 2024

- 4.6 Weather data was sourced from the "Hong Kong Observatory General Weather Conditions during the Monitoring Period (June 2024)" detailed in **Appendix G**, which was used as a substitute approach to acquire representative wind data.
- 4.7 During the monitoring days, the field staff also documented the prevailing weather conditions, such as whether it was sunny, cloudy, or rainy.

#### **Monitoring Parameters, Frequency and Duration**

4.8 **Table 4.3** encapsulates the monitoring variables and the regularity of impact dust assessments conducted throughout the Works Contracts operations. The schedule for air quality observation for the month in question is presented in **Appendix D**.

Table 4.3 Impact Dust Monitoring Parameters, Frequency and Duration

Parameters	Frequency
1-hr TSP	Three times/ 6 days

#### Monitoring Methodology and QA/QC Procedure

#### 1-hour TSP Air Quality Monitoring

#### Instrumentation

- 4.9 The air quality monitoring utilized a direct reading dust meter, as indicated in **Table 4.2**.
- 4.10 The procedures for operating the dust meter adhere to the guidelines set forth in the Manufacturer's Instruction Manual, as described below:
  - -The 1-hour dust meter is placed at least 1.3 meters above ground.
  - -Press and hold the Power key momentarily to power on the unit and make sure that the battery level was not flash or in low level.
  - -Allow the instrument to stand for about 3 second to display the Sample Screen minutes.
  - -Press the START / STOP key to run the internal vacuum pump for 1 minute and ready to use.
  - -Use the select dial to select the PM range and press the START / STOP key to start a measurement.
  - -Finally, push the START/STOP key to stop the measuring after 3-hour sampling.
  - -Information such as sampling date, time, value and site condition were recorded during the monitoring period.
  - -All data were recorded in the data logger for further data processing.

#### Maintenance/Calibration

- 4.11 The dust meter required the following maintenance and calibration:
  - The dust meter must be checked and calibrated against a High Volume Sampler (HVS) to validate the precision and accuracy of the readings obtained through the direct reading method. This calibration should be performed bi-monthly during all phases of the air quality monitoring.
  - The correlation between the dust meter and HVS in measuring TSP was established by directly comparing the mass of dust particles collected on a filter paper by the HVS against the dust meter's reading. For accurate calibration, both the dust meter and the HVS should be turned on and off at the same location and at the same time.
  - The correlation coefficient was verified to confirm the relationship between the readings from the dust meter and the HVS. This correlation factor was ascertained by comparing the outcomes from both the HVS and the dust meter.
  - Prior to the initiation of dust monitoring, a check must be conducted to verify that all equipment is operational and has the necessary power supply. A zero count test was performed before and after each monitoring session to ensure accuracy.

#### **Results and Observations**

4.12 The outcomes of the 1-hour TSP monitoring are condensed in **Table 4.4**. For a comprehensive view, detailed results and graphical representations of the 1-hour TSP monitoring data can be found in **Appendix E**.

Table 4.4 Summary Table of 1-hour TSP Monitoring Results during the Reporting Month

Monitoring Station		Concentration (μg/m³)	Action Level,	Limit Level, μg/m³	
	Average	Range	μg/m³	., 0	
AM1	65	22 – 155	308	500	
AM2	48	22 – 65	311	500	

- 4.13 The 1-hour TSP monitoring took place according to the planned timetable for the reporting month, and there were no instances of exceeding the established Action/Limit Levels.
- 4.14 Based on field observations, the primary sources of dust at the specified air quality monitoring stations during the reporting month are listed in **Table 4.5**.

Table 4.5 Observation at Dust Monitoring Stations

<b>Monitoring Station</b>	Major Dust Source
AM1	Equipment operation and movement / road traffic, exposed site area, site vehicle

	Δ Ι/Ι /	Road traffic, exposed site area, site vehicle / equipment operation and movement, vehicle / equipment operation and movement at warehouse nearby
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#### **Event and Action Plan**

4.15 In the event of a project-related violation of the criteria, measures will be taken as specified by the Event Action Plan detailed in **Appendix I**.

#### 5 LANDSCAPE AND VISUAL MONITORING

#### **Monitoring Requirements**

- 5.1 The EIA Report recommends implementing strategies to mitigate impacts on landscape and visual resources throughout both the construction and operational phases of the Project.
- 5.2 The execution and upkeep of compensatory planting for landscaping are critical components of this process and must be monitored to confirm their complete fulfillment. It is essential to promptly address any potential clashes between the proposed landscaping efforts and other Project tasks or operational needs to ensure that the mitigation measures' objectives are not compromised. Furthermore, the enforcement of the mitigation measures advised by the EIA will be tracked continuously through the site audit program for the construction phase.
- 5.3 The Environmental Team (ET) carried out a fortnightly review of the execution of measures aimed at mitigating landscape and visual impacts as part of the weekly site audits. The findings and observations from these audit sessions are encapsulated in **Table 7.1**, while the status of implementation can be found detailed in **Appendix K**.

#### 6 ECOLOGICAL MONITORING

#### **Monitoring of Flora Species of Conservation Interest**

- In line with Section 8.3.2 of the EM&A Manual, a temporary protective barrier must be installed around the plant species of conservation significance identified in the detailed vegetation survey throughout the construction phase. This barrier should be well-maintained and regularly checked to ensure its effectiveness. Monthly checks of each plant species of conservation interest, as pinpointed in the detailed vegetation survey, are required during the construction phase to ensure that these species remain unaffected by the project's construction activities.
- 6.2 The monitoring aims to oversee the prompt execution of suitable environmental management practices and the application of mitigation measures concerning the preserved and relocated specimens of flora species of conservation interest. The correct setup and upkeep of the temporary protective fence surrounding these specimens were examined to assess its efficacy. The protective measures outlined in the approved transplantation proposal's implementation schedule were supervised.
- 6.3 As per the sanctioned detailed vegetation survey report and transplantation proposal, it was determined that 71 *Brainea insignis* specimens, 41 *Spiranthes sinensis* specimens, and 3 *Aquilaria sinensis* specimens should be relocated to the designated receiving site. Additionally, it was decided to preserve in situ 51 *Keteleeria fortunei* specimens, along with 26 small seedlings of *Keteleeria fortunei* and 7 small seedlings of *Aquilaria sinensis*, in the vicinity of Kong Nga Po Road near the Police Dog Unit and the Force Search Unit Training School.

#### Post-Transplantation Monitoring and Maintenance Programme

- In line with the accepted transplantation proposal, the Contractor is mandated to carry out post-transplantation monitoring weekly for the first three months, and then monthly for the remainder of the 12-month establishment phase as well as the subsequent post-establishment phase, continuing until the construction phase of the Project concludes. This routine monitoring is critical for promptly identifying the growth condition of the transplanted species, any signs of construction work within or in the vicinity of the receptor site, and any changes in the environmental conditions of the receptor site.
- 6.5 For the initial year of acclimatization, it was advised to carry out maintenance activities to promote the robust growth of the transplanted species. Considering the state of the transplanted organisms following the 12-month establishment period, it was advised that maintenance activities continue through the Post-establishment Period until the completion

of the Construction Phase. It was recommended to water the transplants daily for the first three months following the move, as well as throughout periods of drought, to maintain soil moisture. Additional maintenance tasks, such as mulching and weeding, should be performed as necessary.

#### **Results and Observations**

- During the reporting month, the Contractor carried out monthly evaluations of the flora species of conservation interest on the 29th of June 2024. The enforcement of the protective measures detailed in the approved transplantation proposal was reviewed, along with the maintenance of the temporary protective fencing. **Appendix H** contains the photographic documentation and checklists from the monthly assessments. The health of the transplanted and retained species was generally observed to be average to poor. The Contractor was urged to keep a vigilant eye on the transplanted species and to implement the protective measures as specified in the approved transplantation proposal to safeguard these species. Furthermore, the Contractor was given the following directives:
  - 1) To provide new identification tags for any *Brainea insignis* that were missing them;
  - 2) To substitute any plant labels at the receptor site that had become illegible due to fading;
  - 3) To refer to the soil improvement guidelines published by the Greening, Landscape and Tree Management Section (GLTMS) of the Development Bureau (2022) for application in the monitoring and upkeep of the transplanted plant species;
  - 4) To set up shade nets;
  - 5) To ensure the soil remains moist by adhering to the necessary daily watering schedule.

#### Transplanted Brainea insignis and Spiranthes sinensis

6.7 From May 21st to 27th, 2020, 71 *Brainea insignis* specimens and 41 *Spiranthes sinensis* specimens were relocated to the receptor site. The detailed account of the transplantation process was compiled in a Transplantation Report and forwarded to ET(Wellab), IEC(Acuity), and the Supervisor (AECOM) for their examination and documentation. Monitoring after transplantation took place weekly for the initial three months (from June to August 2020) and then monthly throughout the subsequent 12-month establishment period, as well as the post-establishment phase, culminating with the conclusion of the construction phase of the Project. The Contractor was responsible for tracking the health of the transplanted species and carried out maintenance measures such as watering, mulching, and weeding during the first year to nurture the transplanted species' healthy development. Monitoring of the transplanted *Brainea insignis* and *Spiranthes sinensis* took place on June 29th, 2024, within the reporting period, with the findings documented in **Appendix H**. Particular attention was given to the transplanted *Brainea insignis* specimens that were impacted by a bushfire on February 2nd, 2021, with their progress detailed in the post-

transplantation monitoring records. The health of the preserved species was noted to be generally fair. The Contractor was advised to maintain vigilant monitoring of these species and to enforce the stipulated protective measures to ensure their continued preservation.

6.8 During the monthly checks, it was observed that there were no construction operations or storage of equipment taking place within the receptor site. The temporary protective barrier had been correctly installed and was being well-maintained to safeguard the transplanted species.

#### **Precautionary Measure for Butterfly Species of Conservation Interest**

- As stipulated by FEP Condition 2.17, to reduce the impact on butterfly species of conservation concern, efforts shall be made to improve the new grassland habitats within the Project site. This enhancement shall be achieved by cultivating suitable plant species that serve as the larval food source for butterflies of conservation interest, like the Small Three-Ring, thereby supporting the well-being of these species.
- 6.10 The restoration of grassland zones within the Project must be completed prior to the initiation of the Project's operational phase. Information regarding the plant species to be used as larval food plants for butterflies, along with the design and execution details, will be subsequently provided under the building works contract of ArchSD.

#### **Precautionary Measures to Minimize Indirect Disturbance on Ecology**

6.11 As outlined in Section 9.7.3 of the EIA Report, implementing mitigation strategies for air, noise, water, waste, and landscaping can serve as preventative actions to avert and lessen any secondary effects of disturbance or pollution resulting from construction activities on the surrounding ecology and habitats outside the site. The Environmental Team (ET) conducted weekly site audits to oversee the prompt adoption of appropriate environmental management practices and the execution of mitigation measures at the Project site. The findings from these audits are consolidated in Section 7.3.

#### 7 ENVIRONMENTAL SITE INSPECTION

#### **Site Audits**

- 7.1 The Environmental Team (ET) conducted site audits weekly to oversee the prompt adoption of appropriate environmental management practices and the execution of mitigation measures at the Contract site.
- 7.2 The Environmental Team (ET), along with representatives from the Client and the Contractor, conducted site audits on 3, 11, 18, 24 June 2024 of the reported month in 2024.
- 7.3 In the site inspections conducted over the reporting period, there were no particular environmental concerns noted. It should be recognized that these observations pertain solely to the moments of inspection. The findings and advice from these audits are compiled in **Table 7.1**. The absence of identified environmental issues during the joint site inspections does not exempt the Contractor from their obligation to adhere strictly to all legal requirements, the Particular Specifications, and the Environmental Monitoring and Audit (EM&A) Manual.

Table 7.1 Observations of Weekly site Inspection and advice

Parameters	Date	Observations	Advice
Waste Management	18-6-2024	The observed storage of steel directly on the ground, rather than within designated containers, skips, or stockpiles, does not represent practices for promoting material reuse, recycling, or proper disposal	The storage of different types of waste in different containers or skips or stockpiles to enhance reuse or recycling of materials and their proper disposal.
Waste Management	18-6-2024	Scattered general refuse observed on the ground, rather than within designated enclosed bins, does not represent practices that promote Good Site Practice of Waste Management	General refuse should be stored in enclosed bins
Water Quality	18-6-2024	The labelling and storage of chemicals should be in accordance with the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes and maintained at all times by the Contractor	The cupboard or cabinet should be provided for storage of chemicals
Water Quality	18-6-2024	The labelling and storage of chemicals should be in accordance with the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes and maintained at all times by the Contractor	The descriptions on the labels of the chemicals are clearly visible
Others	11-6-2024	1) Saw dust has been found.	Saw dust generated form sawing machine shall be removed timely to reduce dust emissions
Others	18-6-2024	2) The stockpiling of construction materials is not properly covered	2) The stockpiling of construction materials needs to be properly covered

#### **Implementation Status of Environmental Mitigation Measures**

7.4 In accordance with the EIA Report and the Project's EM&A Manual, the outlined mitigation measures are recommended to be implemented throughout the construction phase. An overview of the Environmental Mitigation Implementation Schedule (EMIS) is available in **Appendix K.** 

#### Solid and Liquid Waste Management Status

- 7.5 Pursuant to the EM&A Manual, waste management practices were reviewed in the weekly site audits to assess compliance with the Project's Waste Management Plan (WMP) and pertinent legal and contractual obligations. The auditing process encompassed the examination of waste handling, storage, transport, and disposal methods.
- The Contractor has appointed Environmental Officers on-site to manage environmental aspects, implement pollution control strategies, maintain proper site conduct, and educate workers on waste management. Efforts to reduce waste production include actively using Construction and Demolition (C&D) materials. Excavated materials have been sorted and screened on-site to salvage any recyclables. Non-reactive C&D materials were utilized on-site for backfill and to construct the haul road surface. Furthermore, inert materials from excavation activities were repurposed as fill in other local projects. Excess inert C&D materials were sent to the Government's public fill reception facilities (PFRFs) for use in other projects. To oversee the disposal of inert and non-inert C&D materials and prevent illegal dumping, a system is in place where all materials are weighed by a weighbridge before leaving the site, and the Trip Ticket System is rigorously enforced.
- 7.7 Contractor is encouraged to reduce waste production by recycling or reusing materials. It is imperative that all the mitigation strategies outlined in the EM&A Manual and the waste management plans be thoroughly executed. A summary of the progress in implementing waste management and reduction strategies is provided in **Appendix K**.
- 7.8 This Project produces inert Construction and Demolition (C&D) materials as well as non-inert C&D materials. The non-inert variety consists of general refuse and other waste materials that cannot be repurposed or recycled, necessitating disposal at assigned landfill locations. Data detailing the volume of waste resulting from the Project's construction activities over the reporting period can be found in **Appendix L**.

#### 8 ENVIRONMENTAL NON-CONFORMANCE

#### **Summary of Exceedances**

- 8.1 During the reporting month, there were no instances where the air quality exceeded the established Action and Limit Levels.
- 8.2 There were no instances of construction noise surpassing the designated Action and Limit Levels in the reporting period.
- 8.3 If the monitoring data from any specific stations reveal that environmental parameters have surpassed the Action/Limit Levels, then the procedures outlined in the Event and Action Plans in **Appendix I** should be executed. A summary of any exceedance records for the reporting month can be found in **Appendix J**.

#### **Summary of Environmental Non-Compliance**

8.4 There were no records of environmental compliance breaches during the reported month.

#### **Summary of Environmental Complaint**

8.5 In the month under review, no complaints were registered. A log of all complaints accumulated since the start of the Project is compiled in **Appendix M**.

#### Summary of Environmental Summon and Successful Prosecution

8.6 Since the beginning of the Project, there have been no instances of successful environmental prosecution or receipt of summons. A comprehensive record of all environmental summonses and successful prosecutions since the Project's inception is documented in **Appendix N**.

#### 9 FUTURE KEY ISSUES

#### **Key Issues in the Coming Three Months**

- 9.1 **Appendix A** contains the provisional construction schedules for the Project. Over the next three months, the principal construction tasks to be carried out will include:
  - 1. Open cut excavation
  - 2. Removal of soil
  - 3. Construction of footings
  - 4. Construction of pile cap
  - 5. Construction of substructure
  - 6. Construction of footbridge
  - 7. Backfilling
  - 8. Mock up construction
  - 9. U.U. Lead in and Pipe Duct Connection
- 9.2 Referring to the site layout plan found in **Appendix A**, which details the expected construction activities for the next three months, the primary environmental concerns related to these activities are likely to be construction dust, noise, water quality, waste management, landscape and visual aesthetics, and ecological impacts. The anticipated environmental effects have been factored into the mitigation strategies planned for the upcoming months.
- 9.3 The Contractor has advised mitigation measures for the next three months, which the Environmental Team (ET), Independent Environmental Checker (IEC), and the Client's Representative have reviewed through email correspondence during site audits. The Proactive Environmental Protection Proforma, which outlines the key site activities, potential environmental impacts, and advised mitigation strategies, has been examined and verified by the IEC and is displayed in **Appendix A**.
- During construction and in periods of dry weather, dust can arise from work activities and uncovered site areas. To mitigate dust emissions that could affect nearby villages, the Contractor is advised to diligently apply air quality control measures as outlined in the layout plan in **Appendix A**, to the greatest extent possible. Moreover, the Contractor is reminded to adhere to the Project Implementation Schedule detailed in the approved EIA report/EM&A Manual, implementing suitable dust suppression tactics to curb emissions from intensive construction tasks such as ground excavation and earth moving. This includes managing all active work areas, bare site surfaces, and unpaved roads, especially under dry conditions, by covering 80% of stockpiled materials with impervious coverings and by moistening dusty substances with water just before loading and transfer activities. This ensures materials remain damp during handling in stockpile regions. Additionally, the

Contractor must adhere to the prescribed dust control methods under the Air Pollution Control (Construction Dust) Regulation to prevent negative dust impacts from the Project's construction activities.

- 9.5 Furthermore, construction noise represents a significant environmental concern during the Project's development. It is important to implement noise reduction strategies, such as utilizing quiet machinery and installing noise barriers where relevant. The Contractor has been prompted to regularly inspect and upkeep the sound-dampening materials on noisy sections of plant and machinery, ensuring there are no openings in the noise barriers. They should also actively recognize any potential construction noise impacts to Noise Sensitive Receivers (NSRs) and introduce adequate mitigation measures when required. Additionally, residents in the nearby Kong Nga Po village should be informed in advance about any potentially noisy activities at the work site.
- 9.6 The Contractor is advised to uphold measures that protect water quality throughout the construction process. This includes constructing barriers such as dikes or embankments to prevent flooding around the perimeters of areas where soil is being moved or excavated. Provision should be made for temporary channels to direct runoff effectively into a designated watercourse via a trap designed to capture sediment from the site. These sediment/silt traps should also be integrated into the permanent drainage systems to improve the settling of particulates. It is essential to utilize effective silt removal systems to ensure that the effluent treated by the wastewater treatment plant complies with the standards specified in the WPCO licenses. The Wastewater Discharge Layout Plan, as shown in **Appendix Q** and provided by the Contractor, outlines the specific pathways through which wastewater is to be conveyed from its source to a treatment facility or point of discharge

#### Monitoring Schedule for the Next Month

9.7 **Appendix D** displays the provisional schedule for environmental monitoring activities planned for the upcoming month.

#### 10 CONCLUSIONS AND RECOMMENDATIONS

#### **Conclusions**

- 10.1 This Monthly EM&A Report details the environmental monitoring and audit (EM&A) activities conducted in June 2024, following the guidelines set out in the EM&A Manual.
- 10.2 During the month in question, air quality monitoring did not register any instances of surpassing the Action/Limit Levels.
- 10.3 No instances of construction noise exceeding the established Action/Limit Levels were documented in the reporting month's monitoring records.
- 10.4 Site inspections focusing on environmental aspects took place on the 3, 11, 18 and 24 June 2024. Additionally, monitoring of landscape and visual impacts was performed on the 3, 11, 18 and 24 June 2024, and ecological monitoring was conducted on the 24 June 2024 by ET within the reporting month. The Contractor also conducted monitoring on 29 June 2024. There were no records of environmental non-compliance for the reporting month. It should be noted that the absence of any particular environmental issues during the joint site inspections does not exempt the Contractor from their obligation to adhere fully to all legal requirements, the specifications outlined in the contract, and the procedures in the EM&A Manual.
- 10.5 During the reporting month, there were no complaints lodged, nor were there any notices of summons or records of successful legal actions received.
- 10.6 The Environmental Team (ET) will persist in overseeing the Environmental Monitoring and Audit (EM&A) program. All environmental obligations are fulfilled, and the necessary mitigation measures are properly executed.

#### Recommendations

10.7 Based on the environmental audits conducted during the reporting month, the subsequent advice was put forward:

Air Quality Impact

- To enhance the dust suppression measures including watering for the dust generation works, exposed site area and haul road;
- To minimize the indirect impacts on air quality resulting from the operation of machineries on the construction site, one of the measures to be adopted is the use of biodiesel B100; and

 To regular check the valid NRMM labels are properly displayed on the regulated machines and non-road vehicles

#### Construction Noise

- To refer to the ISO 12001:1996 or other comprehensive practices and subsequently develop
  a thorough inspection and maintenance protocol for the plant and equipment, maintaining a
  focus on Noise Control; and
- To maintain temporary noise barriers for operations of noisy equipment near the noise sensitive receivers, if necessary.

#### Water Impact

- To maintain the cover for open stockpile of and exposed slope;
- To keep reviewing and updating temporary drainage system;
- To maintain the earth bunds or sand bag barriers on site to direct stormwater to silt removal facilities; and
- To divert the muddy water at the retention pond to the wetsep for treatment before discharging out.

#### Waste/Chemical Management

- To check for any accumulation of waste materials or rubbish on site; and
- To avoid improper handling, storage and dispose of oil drums or chemical containers on site.

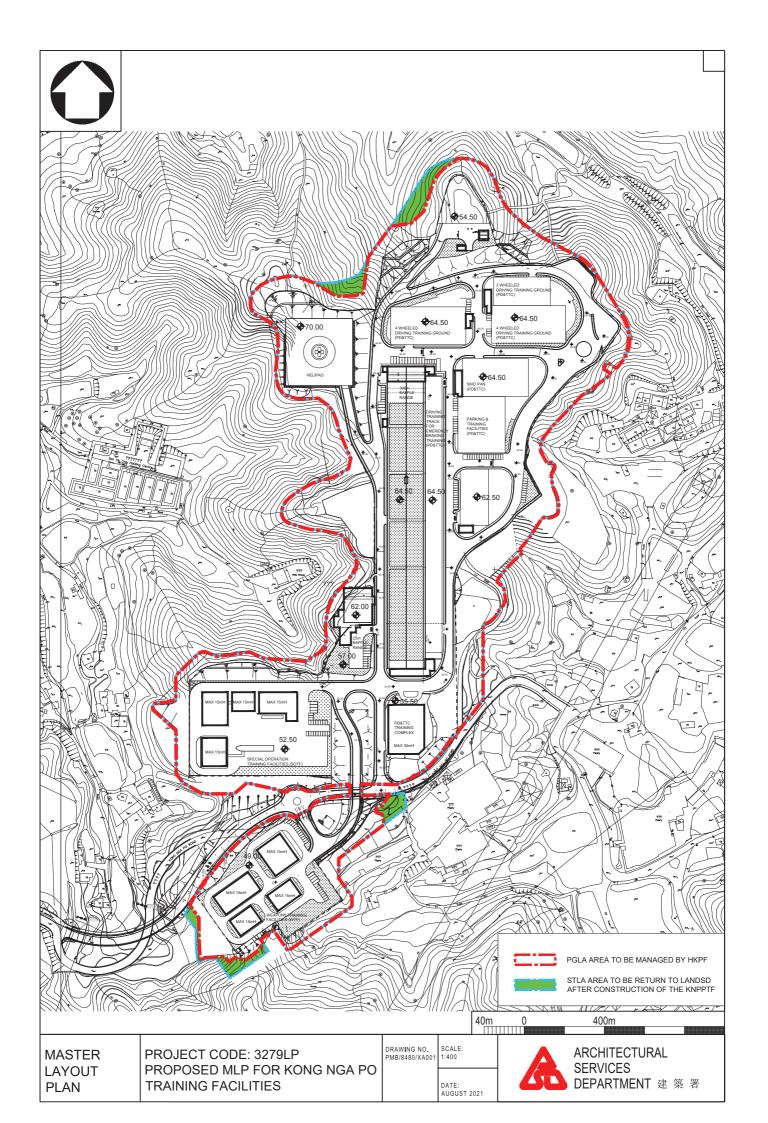
#### **Ecology**

- To maintain soil moisture, daily watering is required;
- To install a shaded net;
- To refer to the Guidelines on Soil Improvement issued by the Greening, Landscape and Tree Management Section (GLTMS) of the Development Bureau (2022) for the effective monitoring and maintenance of transplanted flora species; and
- The wild plants that are growing in undesirable areas should be removed, as they compete with the cultivated flora species of conservation interest.

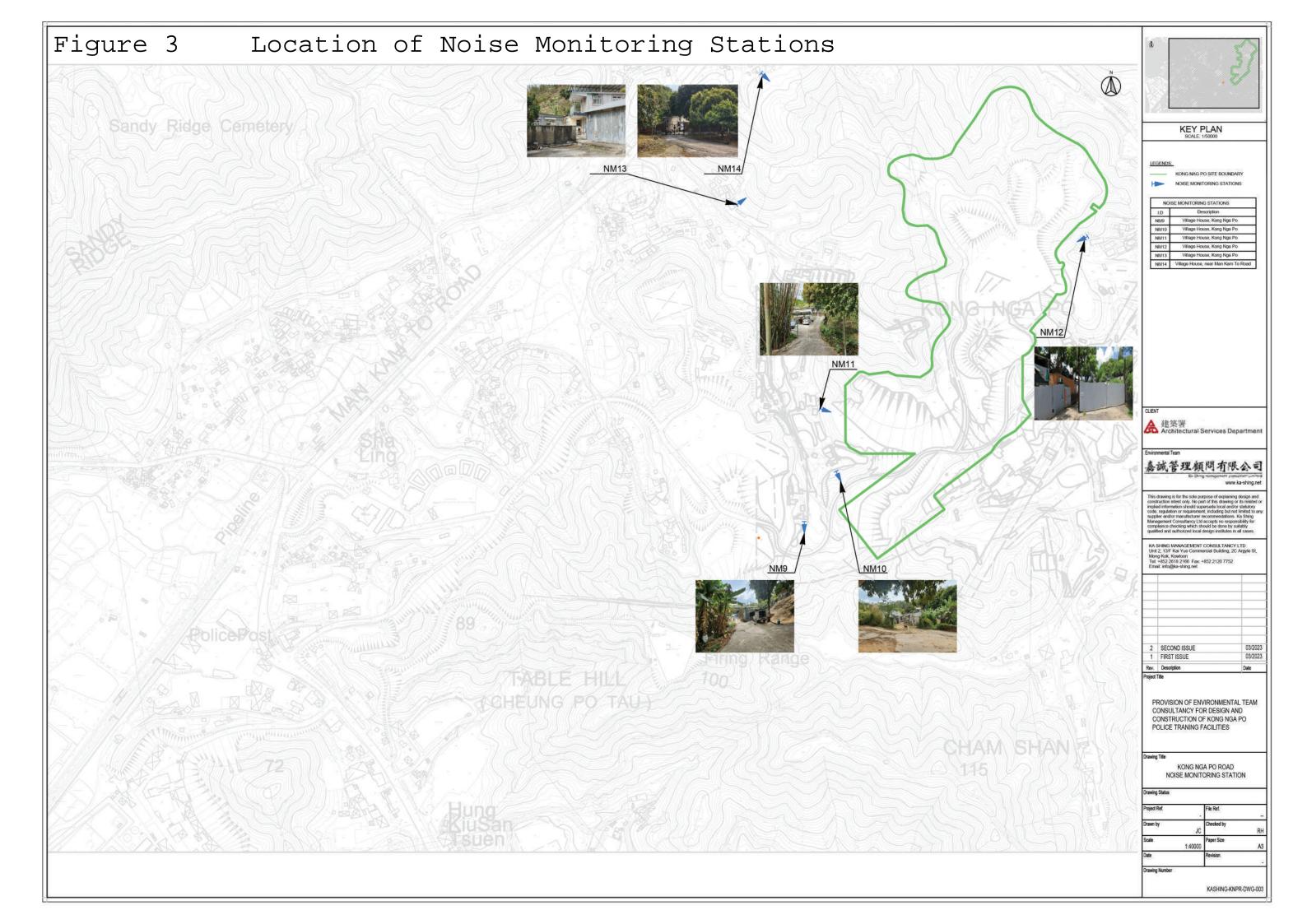
#### Landscape and Visual

- To remove the construction materials within the tree protection zone; and
- To keep the tree protection zone large enough to protect the tress.

FIGURE(S)







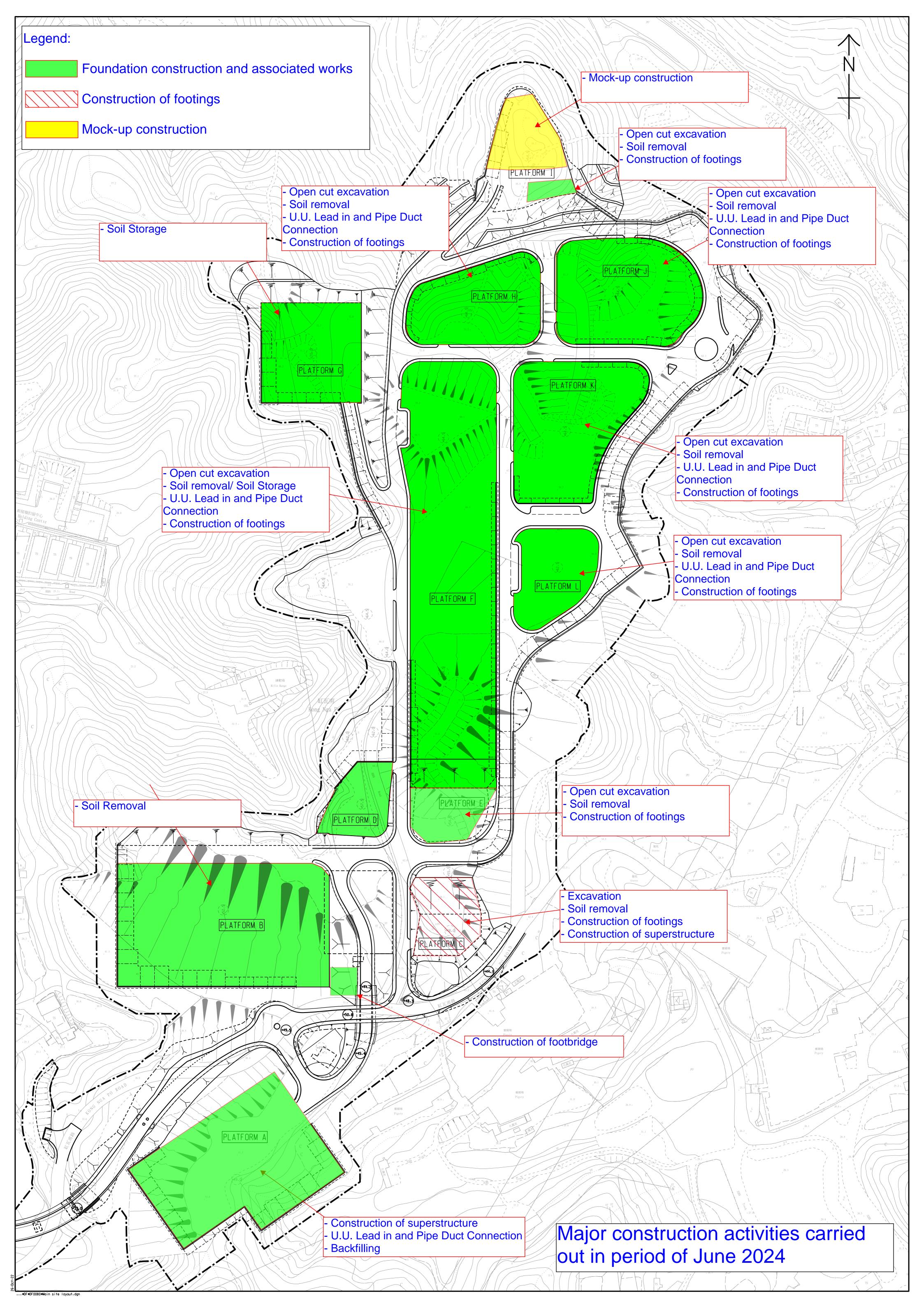
# APPENDIX A CONSTRUCTION PROGRAMME AND PROACTIVE ENVIRONMENTAL PROTECTION PROFORMA

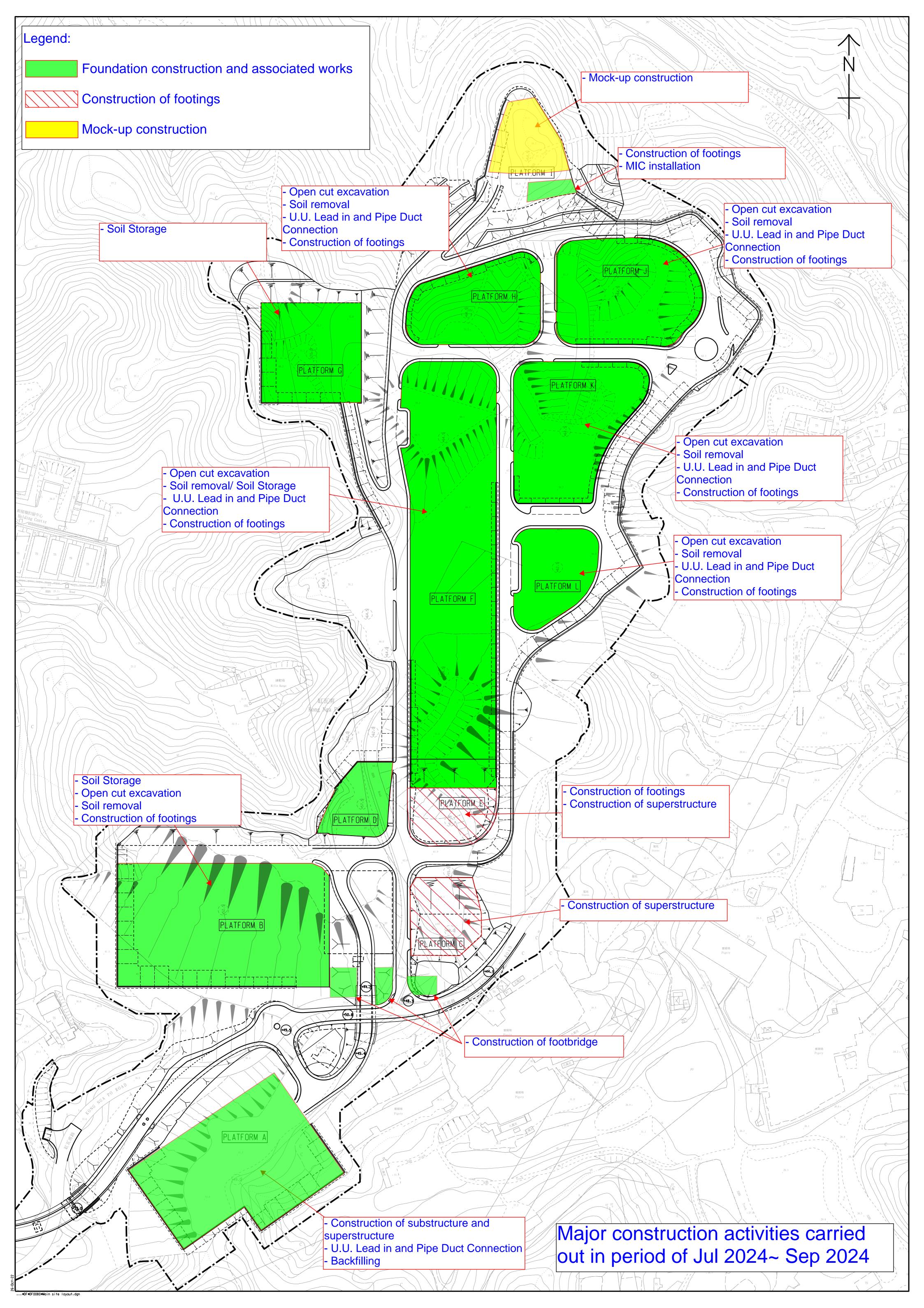
## Construction Programme (Jul – Sep 2024)

BLJ Programme April 2024 AA Roiling Programme | Qtr 4, 2022 | Qtr 1, 2023 | Qtr 2, 2023 | Qtr 2, 2023 | Qtr 3, 2023 | Qtr 4, 2023 | Qtr 4, 2023 | Qtr 1, 2024 | Qtr 2, 2024 | Qtr 2, 2024 | Qtr 4, 2024 | Qtr 4, 2025 | Qtr 2, 2025 | Qtr 2, 2025 | Qtr 3, 2025 | Qtr 1, 2026 | Qtr 2, 2026 | Qtr 3, 2026 | Qtr 4, 2026 | Qtr 4, 2026 | Qtr 1, 2027 | Qtr 2, 2027 | Qtr 3, 2025 | Qtr 4, 2025 | Qtr 3, 2025 | Qtr 4, 2025 | Qtr 1, 2026 | Qtr 3, 2026 | Qtr 4, 2026 | Qtr 4, 2026 | Qtr 4, 2026 | Qtr 1, 2027 | Qtr 2, 2027 | Qtr 3, 2027 | Qtr 3, 2027 | Qtr 3, 2027 | Qtr 3, 2028 | Qtr 4, 2028 | Qtr 4, 2028 | Qtr 4, 2028 | Qtr 4, 2028 | Qtr 3, 2028 | Qtr 3, 2028 | Qtr 3, 2028 | Qtr 3, 2028 | Qtr 4, 2028 | Qtr 4, 2028 | Qtr 4, 2028 | Qtr 3, 2028 | Qtr 3, 2028 | Qtr 3, 2028 | Qtr 3, 2028 | Qtr 4, 2028 | Qtr 4, 2028 | Qtr 4, 2028 | Qtr 4, 2028 | Qtr 3, 2028 | Qtr 3, 2028 | Qtr 3, 2028 | Qtr 4, 2028 | Qtr 4, 2028 | Qtr 3, 2028 | Qtr 4, 2028 | Qtr 4, 2028 | Qtr 3, 2028 | Task Name Baseline Start Baseline Finish % Comp. Act. Start Act. Finish 1167 Site Execution Fri 23/12/22 Sat 5/7/25 Sat 27/8/22 NA 16% 1240 Foundation and Substructure Construction Thu 19/1/23 Wed 5/6/24 Wed 21/12/22 NA 62% 1 62% 1241 ELS, Foundation and Substructure Works Sat 15/4/23 100% Thu 19/1/23 Thu 19/1/23 Sat 15/4/23 100% 1242 Ground Investigation Tue 31/1/23 Wed 1/3/23 Fri 3/2/23 Wed 1/3/23 100% 100% 1243 Soil Redistribution Thu 19/1/23 Mon 27/2/23 Thu 19/1/23 Mon 27/2/23 100% 100% 1244 Plate load test (WTF / SOTF / 25m Baffle Range and 300m Baffle Range) Thu 2/3/23 Sat 15/4/23 Thu 2/3/23 Sat 15/4/23 100% 100% 1245 Fri 5/1/24 70% Section 1 Works Fri 14/4/23 Wed 21/12/22 NA 1 70% 1246 PD&TTC Block1 (Training Complex) Fri 14/4/23 Thu 7/12/23 Wed 21/12/22 70% NA 1 70% 1247 Sat 13/5/23 Pre-drilling Works Fri 14/4/23 Wed 15/3/23 Sat 13/5/23 100% 100% 1248 Sun 14/5/23 Sat 20/5/23 Sun 14/5/23 Sat 20/5/23 100% 100% Pre-drilling works completion and issue report 1249 Test Boring Thu 15/6/23 Thu 15/6/23 Thu 15/6/23 Thu 15/6/23 100% T100% 1250 Piling works Fri 16/6/23 Sun 15/10/23 Fri 16/6/23 Tue 2/1/24 100% 1251 Fri 16/6/23 Fri 15/9/23 Zone A Fri 16/6/23 Mon 25/9/23 100% 100% 1252 NICE001 - 14 days EOT Claimed NA NA Tue 26/9/23 Mon 9/10/23 100% 100% 1253 NICE002 - 4 days EOT Claimed NA Fri 6/10/23 Mon 9/10/23 100% 100% NA 1254 **100%** NICE003 - 9.5 days EOT Claimed NA NA 100% Sat 7/10/23 Mon 16/10/23 1255 NA 100% NICE004 - 3.5 days EOT Claimed NA Mon 16/10/23 Thu 19/10/23 100% 1256 NICE005 - 20 days EOT Claimed NA NA Fri 20/10/23 Wed 8/11/23 100% 100% 1257 NICE006 - 5.5 days EOT Claimed NA NA Thu 9/11/23 Tue 14/11/23 100% 100% 1258 Zone B Sat 26/8/23 Sun 15/10/23 Fri 14/7/23 Mon 6/11/23 100% 100% 1259 Sun 15/10/23 Sun 29/10/23 100% **100%** NICE001 - 14 days EOT Claimed Mon 6/11/23 Mon 20/11/23 1260 100% NICE002 - 4 days EOT Claimed NA Mon 20/11/23 Fri 24/11/23 100% NA 1261 **100%** 100% NICE003 - 9.5 days EOT Claimed NA NA Fri 24/11/23 Mon 4/12/23 1262 NICE004 - 3.5 days EOT Claimed NA NA Mon 4/12/23 Thu 7/12/23 100% 100% 1263 NICE005 - 20 days EOT Claimed NA 100% 100% NA Thu 7/12/23 Wed 27/12/23 1264 100% NICE006 - 5.5 days EOT Claimed NA NA Wed 27/12/23 Tue 2/1/24 100% 1265 Piling Tests Sat 16/9/23 Sun 19/11/23 Mon 25/9/23 Sat 30/12/23 100% 100% 100% 1266 Thu 2/11/23 Location Selected by ArcSD (Zone A) Tue 10/10/23 Thu 2/11/23 Mon 25/9/23 100% 1267 <del>+</del>100% Sat 16/9/23 Fri 20/10/23 Fri 3/11/23 Mon 20/11/23 100% 1268 Location Selected by ArcSD (Zone B) Tue 7/11/23 Thu 30/11/23 Tue 7/11/23 Thu 7/12/23 100% 100% 1269 Mon 16/10/23 Sun 19/11/23 Mon 11/12/23 Sat 30/12/23 100% 100% Zone B 1270 Post drill and piling works completion Sat 16/9/23 Sun 29/10/23 Mon 6/11/23 Mon 20/11/23 100% Ħ 1271 100% Zone A Sat 16/9/23 Fri 29/9/23 Tue 7/11/23 Mon 20/11/23 100% 1272 **=** 100% Zone B 100% Mon 16/10/23 Sun 29/10/23 Mon 6/11/23 Mon 20/11/23 1273 Excavation to piling cut off and bottom of pile cap NA NA Fri 1/12/23 Sat 3/2/24 100% 100% 1274 Zone A Sat 21/10/23 Fri 24/11/23 Fri 1/12/23 Thu 4/1/24 100% 100% 1275 Zone B NA Sat 3/2/24 100% 100% NA Sun 31/12/23 1276 Slope Modification Sun 16/4/23 Tue 30/5/23 Sun 16/4/23 Tue 30/5/23 100% 100% 1277 Completion for Bottom of Slope Feature D by Build King Wed 21/12/22 Mon 16/10/23 NA 0% NA 1278 Sat 28/10/23 Thu 21/12/23 100% Sat 30/12/23 Tue 30/4/24 Pile caps construction **100%** 1279 100% Sat 28/10/23 Zone A Wed 6/12/23 Sat 30/12/23 Mon 12/2/24 100% 1280 NICE 1~6 - 56.5 Days EOT Granted NA Tue 13/2/24 Tue 9/4/24 100% 100% 1281 NICE-0007 - 0.5 day EOT NA NA Tue 9/4/24 Tue 9/4/24 100% 100% 1282 NICE-0009 - 1 day EOT NA NA Wed 10/4/24 Wed 10/4/24 100% 100% 1283 NICE-0010 - 4 day EOT NA NA Thu 11/4/24 Sun 14/4/24 100% 100% 1284 NA NA Fri 5/1/24 Tue 30/4/24 100% ■ 100% Zone B 100% 1285 Sat 25/11/23 Thu 21/12/23 Mon 4/3/24 100% Zone B - G.L 7-8 / T-L Sun 4/2/24 1286 Tue 30/4/24 100% NICE 1~6 - 56.5 Days EOT Granted NA NA Tue 5/3/24 100% 1287 Zone B - G.L 8-9 / T-L NA Fri 5/1/24 Sun 18/2/24 100% 100% NA 1288 NA NICE 1~6 - 56.5 Days EOT Granted NA Mon 19/2/24 Mon 15/4/24 100% 100% 1289 CNE0022 - 0.5 day EOT NA NA Mon 15/4/24 Mon 15/4/24 100% 100% 1290 NA Tue 16/4/24 100% NICE-0009 - 1 day EOT NA Tue 16/4/24 100% 1291 NICE-0010 - 4 day EOT NA NA Wed 17/4/24 Sat 20/4/24 100% 100% 1292 Mon 27/11/23 Sun 17/12/23 0% Underground Drainage / Earthing Pits / Lightning Pits NA NA 1293 NICE 1~6 - 56.5 Days EOT Granted NA NA NA 0% 0% NA 1294 Back Filling, Waterproofing and LG/F Slab Thu 7/12/23 Fri 5/1/24 Thu 15/2/24 99% NA 1295 68% PD&TTC Block 2-9 (Driving Blocks) Sat 22/7/23 Sun 14/7/24 Wed 21/12/22 NA 68% Critical Path Driving Predecessor Milestone Task Task Progress Baseline Milestone Project Summars Inactive Summars Critical Split Manual Task Path Driving Predecessor Summary Task External Tasks Critical Progress Start-only Path Driving Predecessor Normal Task External Milestone Task Finish-only Baseline Inactive Task Duration-only Split Baseline Split ..... 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BLJ Programme April 2024 AA Roiling Programme Qtr 4, 2022 Qtr 1, 2023 Qtr 2, 2023 Qtr 3, 2023 Qtr 4, 2023 Qtr 4, 2023 Qtr 1, 2024 Qtr 2, 2024 Qtr 2, 2024 Qtr 3, 2025 Qtr 2, 2025 Qtr 3, 2025 Qtr 3, 2025 Qtr 4, 2026 Qtr 3, 2026 Qtr 3, 2026 Qtr 4, 2026 Qtr 4, 2026 Qtr 1, 2027 Qtr 2, 2027 Qtr 3, 2027 Qtr 2, 2025 Qtr 3, 2025 Qtr 3, 2025 Qtr 3, 2025 Qtr 3, 2025 Qtr 1, 2026 Qtr 3, 2026 Qtr 3, 2026 Qtr 4, 2026 Qtr 4, 2026 Qtr 1, 2027 Qtr 2, 2027 Qtr 3, 2026 Qtr 3, Task Name Baseline Start Baseline Finish Act. Start 1167 Site Execution Fri 23/12/22 Sat 5/7/25 Sat 27/8/22 NA 1641 External Works Sat 22/7/23 Mon 2/6/25 Sat 22/7/23 NA 23% 1 23% 1642 Section 1 Works Sat 22/7/23 Wed 9/10/24 Sat 22/7/23 NA 28% ■ 28% 1643 Trainning Ground Sat 22/7/23 Wed 9/10/24 Sat 22/7/23 34% 34% NA 1644 2-WD Trainning Ground (Block 3) Sat 22/7/23 Wed 9/10/24 Sat 22/7/23 44% NA 44% 1645 Excavation for Underground Service and Utilities Works Sun 20/8/23 Sat 22/7/23 Sat 22/7/23 Sun 20/8/23 100% 100% 1646 Sun 3/9/23 100% NICE001 - 14 days EOT Claimed Mon 21/8/23 Mon 21/8/23 Sun 3/9/23 100% 1647 NICE002 - 4 days EOT Claimed Mon 4/9/23 Thu 7/9/23 Mon 4/9/23 Thu 7/9/23 100% 100% 1648 NICE003 - 10 days EOT Claimed Fri 8/9/23 Sun 17/9/23 Fri 8/9/23 Sun 17/9/23 100% **100%** 1649 100% NICE004 - 3.5 days EOT Claimed NA Mon 18/9/23 Thu 21/9/23 100% 1650 100% NICE005 - 20 days EOT Claimed NA Thu 21/9/23 Wed 11/10/23 100% 1651 NICE006 - 5.5 days EOT Claimed NA NA Wed 11/10/23 Mon 16/10/23 100% 100% 1652 NA 80% U/G Drainage Installation NA Thu 26/10/23 NA 80% 1653 U/G Drainage Installation Sun 6/8/23 Tue 19/9/23 Thu 26/10/23 NA 80% 80% 1654 Concrete Surround Works **80%** Fri 15/9/23 Thu 28/9/23 Sun 10/12/23 NA 80% 1655 Earthing Installation Works Sat 26/8/23 Fri 29/9/23 NA NA 0% 0% 1656 Fri 22/9/23 Sat 21/10/23 NA NA 0% 0% 1657 U/G Cable Pits / Ducts for BS / SFH / Plumbing Pipes / Rainwater FSun 22/10/23 40% Wed 20/12/23 NA Tue 16/1/24 1658 Complete U/G Services & Utilities Works Wed 20/12/23 Wed 20/12/23 Thu 25/4/24 NA 40% 25/4 1659 Backfilling Works Fri 1/12/23 Sun 25/2/24 10% Sun 14/1/24 NA 10% 1660 Driving Ground Concreting Works Mon 15/1/24 Tue 13/2/24 NA NA 0% 0% 1661 **×** 0% NA Finishing Works and Road Painting Tue 24/9/24 Wed 9/10/24 NA 1662 NA 39% Parking and Trainning Facilities Tue 14/11/23 Tue 8/10/24 Wed 10/1/24 1663 Excavation for Underground Service and Utilities Works Tue 14/11/23 Sat 23/12/23 Wed 10/1/24 Sun 18/2/24 100% 1664 U/G Drainage Installation Wed 29/11/23 Sat 27/1/24 Thu 25/1/24 80% NA 1665 80% Concrete Surround Works Tue 23/1/24 Mon 5/2/24 Wed 20/3/24 NA 1666 Earthing Installation Works Fri 29/12/23 Sat 27/1/24 0% NA NA 1667 Tue 30/1/24 Wed 28/2/24 NA 0% NA 1668 U/G Cable Pits / Ducts for BS / SFH / Plumbing Pipes / Rainwater F Thu 29/2/24 Sun 28/4/24 Fri 26/4/24 NA 40% 1669 Complete U/G Services & Utilities Works Sun 28/4/24 Sun 28/4/24 Mon 24/6/24 NA 40% **♦ 24/6** 1670 Backfilling Works Tue 9/4/24 Wed 5/6/24 NA 10% Thu 23/5/24 10% 1671 Driving Ground Concreting Works Fri 24/5/24 Sat 22/6/24 NA NA 0% 1672 Finishing Works and Road Painting Tue 24/9/24 Tue 8/10/24 NA 0% NA 1673 Mon 21/8/23 Braking Training (Block 4) Tue 8/10/24 Tue 17/10/23 NA 41% **■** 41% 1674 Excavation for Underground Service and Utilities Works NA NA Tue 17/10/23 NΑ 90% 90% 1675 Excavation for Underground Service and Utilities Works Mon 21/8/23 90% Wed 4/10/23 Tue 17/10/23 NA 90% 1676 NICE003 - 10 days EOT Claimed NA 90% 90% NA Fri 1/12/23 NA 1677 U/G Drainage Installation Tue 5/9/23 Fri 3/11/23 Sat 16/12/23 NA 60% 60% 1678 Concrete Surround Works Mon 30/10/23 Sun 12/11/23 Fri 9/2/24 NA 60% **60%** 1679 Earthing Installation Works Tue 10/10/23 Sat 18/11/23 NA NA 0% 1680 Mon 6/11/23 Tue 5/12/23 NA 0% NA 1681 U/G Cable Pits / Ducts for BS / SFH / Plumbing Pipes / Rainwater F.Wed 6/12/23 Sun 17/3/24 80% Sat 3/2/24 NA 1682 **♦** 15/5 Complete U/G Services & Utilities Works Sat 3/2/24 Sat 3/2/24 NA NA 0% 1683 Backfilling Works Mon 15/1/24 Wed 28/2/24 NA NA 0% 0% 1684 -0% Driving Ground Concreting Works Thu 29/2/24 Fri 29/3/24 NA NA 0% **\*** 0% 1685 Finishing Works and Road Painting NA 0% Tue 24/9/24 Tue 8/10/24 NA 1686 Skid Pan (Block 5) Thu 5/10/23 Tue 8/10/24 Fri 1/12/23 NA 33% 33% 1687 Excavation for Underground Service and Utilities Works Mon 13/11/23 100% Thu 5/10/23 Fri 1/12/23 Tue 9/1/24 100% 1688 U/G Drainage Installation Fri 20/10/23 Fri 8/12/23 Sat 16/12/23 80% NA 1689 Concrete Surround Works Mon 4/12/23 Sun 17/12/23 Tue 30/1/24 NA 80% 1690 Earthing Installation Works Sun 19/11/23 Sat 23/12/23 NA NA 0% 0% 1691 0% Mon 11/12/23 NA NA Tue 9/1/24 1692 U/G Cable Pits / Ducts for BS / SFH / Plumbing Pipes / Rainwater HWed 10/1/24 Sat 9/3/24 Thu 7/3/24 NA 25% 1693 Complete U/G Services & Utilities Works Sat 9/3/24 NA 0% **♦** 5/5 Sat 9/3/24 NA Critical Path Driving Predecessor Milestone Task Baseline Milestone Task Progress Project Summars Inactive Summars Critical Split Manual Task Path Driving Predecessor Summary Task External Tasks Critical Progress Start-only Path Driving Predecessor Normal Task External Mileston Task Finish-only Inactive Task Baseline Duration-only Split Baseline Split ..... 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## Layout Plan with major construction activities





#### Proactive Environmental Protection Proforma

Ref*	Proposed	Location/Working	Anticipated Major	Recommended Mitigation Measures
	Construction	Period	Impacts	
	Method			
EIA 3.9.1; EM&A Log 2.2	Open cut excavation	Kong Nga Po Site	Dust impact from excavation activities and earth moving	<ul> <li>Use of regular water spraying (once every 1.25 hours or 8 times per day) at all active works area exposed site surfaces and unpaved roads, particularly during dry weather</li> <li>Deploy water bowser for regular water spraying to enhance dust suppression</li> <li>Manual water spraying for dusty operation where inaccessible by water bowser</li> <li>Speed control of site transportation</li> <li>Stockpile of dusty materials will be covered by tarpaulin sheets to avoid wind-blown dust</li> <li>Vehicles used for transporting dusty materials/spoils will be covered by mechanical cover before leaving the site</li> <li>Wheel washing facilities will be provided and cleaning the</li> </ul>
				wheel of all vehicles before leaving the site
EIA 4.4.6;			Noise Control	Regular inspection and maintenance of plant & equipment in
EM&A Log 3.2				good condition

Working Period: Jul to Sep 2024

	Working in Restricted Hours	<ul> <li>Enclose the noisy part of machineries with noise enclosure</li> <li>Adopt of Quality Powered Mechanical Equipment (QPME) if possible</li> <li>Valid construction noise permit should be obtained and displayed on site</li> <li>In case of non-compliance with the construction noise criteria, more frequent monitoring and action should be carried out</li> </ul>
EIA 5.6.1.2;	Water Pollution	Cover the stockpiles of construction materials to reduce the
EM&A Log 4.2	Control	potential for water pollution
		Provide wastewater treatment facilities prior to discharge of wastewater
		Regular inspection and maintenance of wastewater treatment facilities
		Wastewater pumped out of the excavation areas will be treated to remove suspended solids prior to discharge
		Hard paving or well-compact of main haul road to minimize washout of soil
		Wheels of all vehicles and plants will be cleaned before
		leaving the work areas to remove sediment, soil and debris from the tracked. The wastewater will be treated and reused
EIA 7.5.1.1 &	Waste Generation	<ul><li>on site or discharged.</li><li>Training of site personnel in proper waste management and</li></ul>
EIA 7.3.1.1 &	waste Generation	Iranning or site personner in proper waste management and

7.5.1.2;				chemical handling procedures
EM&A Log 6.2				Proper storage and sorting of excavated inert materials to
				maximize on site reuse for backfilling
				Surplus inert C&D materials will be disposed of at designated
				Government's PFRF.
EIA 7.5.1.4;			Chemical Waste	Chemical waste should be stored at chemical waste container
EM&A Log 6.2				and collected by a licensed collector to transport and dispose
				of at the approved Chemical Waste Treatment Centre
				Drip tray and chemical spillage kit will be provided on site
EIA 9.7.1 and			Ecology Concern	Provide training to frontline workers for the conservative
EM&A Log 8.3				species
				Provision of protective fence for the conservative species
				Regular inspection for concerned vegetation and conservative
				species
EIA Table 10.11;			Landscape and	• Preservation of existing trees will be undertaken in
EM&A Table 9.1			Visual Impact	accordance with DEVB TC(W) 7/2015 and Guidelines for Tree
				Risk Assessment and Management Arrangement
				Restrict construction area to minimize the impact on existing
				retained trees
EIA 3.9.1;	Soil Removal	Kong Nga Po Site	Dust impact from	• Use of regular water spraying (once every 1.25 hours or 8
EM&A Log 2.2			excavation	times per day) at all active works area exposed site surfaces
			activities and earth	and unpaved roads, particularly during dry weather

EIA 4.4.6; EM&A Log 3.2	Noise Control	<ul> <li>Water spraying during loading and unloading of excavated materials</li> <li>Vehicles used for transporting dusty materials/spoils will be covered by mechanical cover before leaving the site</li> <li>Deploy water bowser for regular water spraying to enhance dust suppression</li> <li>Speed control of site transportation</li> <li>Stockpile of dusty materials will be covered by tarpaulin sheets to avoid wind-blown dust</li> <li>Wheel washing facilities will be provided and cleaning the wheel of all vehicles before leaving the site</li> <li>Regular inspection and maintenance of plant &amp; equipment in good condition</li> </ul>
		<ul> <li>Enclose the noisy part of machineries with noise enclosure</li> <li>Adopt of Quality Powered Mechanical Equipment (QPME) if possible</li> </ul>
	Working in Restricted Hours	·
	Restricted flours	<ul> <li>displayed on site</li> <li>In case of non-compliance with the construction noise criteria,</li> </ul>
		more frequent monitoring and action should be carried out
EIA 5.6.1.2;	Water Pollution	Cover the stockpiles of excavated materials to reduce the
EM&A Log 4.2	Control	potential for water pollution

EIA 7.5.1.1 & 7.5.1.2; EM&A Log 6.2	Waste Generation	<ul> <li>Provide wastewater treatment facilities prior to discharge of wastewater</li> <li>Regular inspection and maintenance of wastewater treatment facilities</li> <li>Wheels of all vehicles and plants will be cleaned before leaving the work areas to remove sediment, soil and debris from the tracked. The wastewater will be treated and reused on site or discharged.</li> <li>Training of site personnel in proper waste management and chemical handling procedures</li> <li>Proper storage and sorting of excavated inert materials to maximize on site reuse for backfilling</li> <li>Surplus inert C&amp;D materials will be disposed of at designated</li> </ul>
EIA 7.5.1.4;	Chemical Waste	<ul> <li>Government's PFRF.</li> <li>Chemical waste should be stored at chemical waste container</li> </ul>
EM&A Log 6.2		and collected by a licensed collector to transport and dispose
		of at the approved Chemical Waste Treatment Centre
		Drip tray and chemical spillage kit will be provided on site
EIA 9.7.1 and	Ecology Concern	Provide training to frontline workers for the conservative
EM&A Log 8.3		species
		Provision of protective fence for the conservative species
		Regular inspection for concerned vegetation and conservative

				species
EIA Table 10.11; EM&A Table 9.1			Landscape and Visual Impact	<ul> <li>Preservation of existing trees will be undertaken in accordance with DEVB TC(W) 7/2015 and Guidelines for Tree Risk Assessment and Management Arrangement</li> <li>Restrict construction area to minimize the impact on existing retained trees</li> </ul>
EIA 3.9.1; EM&A Log 2.2	Construction of footings and superstructure	Kong Nga Po Site	Air	<ul> <li>Regular inspection and maintenance of plant and equipment in good condition</li> <li>Regularly clean up stockpiles and debris to avoid accumulation of materials</li> <li>Dusty materials exceeding 20 bags shall be stored in area sheltered on top and the three sides or covered entirely by impervious sheeting.</li> </ul>
EIA 4.4.6; EM&A Log 3.2			Noise Control	<ul> <li>Regular inspection and maintenance of plant &amp; equipment in good condition</li> <li>Enclose the noisy part of machineries with noise enclosure</li> <li>Adopt of Quality Powered Mechanical Equipment (QPME) if possible</li> </ul>
			Working in Restricted Hours	<ul> <li>Valid construction noise permit should be obtained and displayed on site</li> <li>In case of non-compliance with the construction noise criteria, more frequent monitoring and action should be carried out</li> </ul>

EIA 5.6.1.2;			Water Pollution	Wheels of all vehicles and plants will be cleaned before
EM&A Log 4.2			Control	<ul> <li>leaving the work areas to remove sediment, soil and debris from the tracked. The wastewater will be treated and reused on site or discharged.</li> <li>Designated location for residual concrete washout</li> <li>Provide wastewater treatment facilities prior to discharge of wastewater</li> </ul>
EIA 7.5.1.4; EM&A Log			Chemical Waste	Drip tray and chemical spillage kit shall be provided on site
EIA 9.7.1 and EM&A Log 8.3			Ecology Concern	<ul> <li>Provide training to frontline workers for the conservative species</li> <li>Provision of protective fence for the conservative species</li> <li>Regular inspection for concerned vegetation and conservative species</li> </ul>
EIA Table 10.11;			Landscape and	Preservation of existing trees will be undertaken in
EM&A Table 9.1			Visual Impact	<ul> <li>accordance with DEVB TC(W) 7/2015 and Guidelines for Tree Risk Assessment and Management Arrangement</li> <li>Implement temporary traffic arrangement which control construction area to minimize landscape and visual impacts</li> </ul>
EIA 3.9.1;	Construction	Kong Nga Po Site	Air	Regular inspection and maintenance of plant and equipment
EM&A Log 2.2	of substructure			<ul><li>in good condition</li><li>Regularly clean up stockpiles and debris to avoid</li></ul>

EIA 4.4.6; EM&A Log 3.2	Noise Control	<ul> <li>accumulation of materials</li> <li>Dusty materials exceeding 20 bags shall be stored in area sheltered on top and the three sides or covered entirely by impervious sheeting.</li> <li>Regular inspection and maintenance of plant &amp; equipment in good condition</li> <li>Enclose the noisy part of machineries with noise enclosure</li> <li>Adopt of Quality Powered Mechanical Equipment (QPME) if possible</li> </ul>
	Working in Restricted Hours	<ul> <li>Valid construction noise permit should be obtained and displayed on site</li> <li>In case of non-compliance with the construction noise criteria, more frequent monitoring and action should be carried out</li> </ul>
EIA 5.6.1.2; EM&A Log 4.2	Water Pollution Control	<ul> <li>Cover the stockpiles of construction materials to reduce the potential for water pollution</li> <li>Provide wastewater treatment facilities prior to discharge of wastewater</li> <li>Wastewater generated from surface runoff shall be treated prior to discharge</li> <li>Manholes should be temporarily sealed to prevent silt, construction materials or debris from entering the drainage system.</li> </ul>

EIA 7.5.1.1;			Waste	Cover stockpiles of C&D materials by impervious sheets to
EM&A Log 6.2			Management	avoid wind-blown dust.
				Spray water on all dusty materials including C&D materials
				immediately prior to any loading transfer operation
				Segregation and storage of different types of waste in
				different containers or skips to enhance reuse or recycling of
				materials and their proper disposal
EIA 7.5.1.4;			Chemical Waste	Drip tray and chemical spillage kit shall be provided on site
EM&A Log 6.2				
EIA 9.7.1 and			Ecology Concern	Provide training to frontline workers for the conservative
EM&A Log 8.3				species
				Provision of protective fence for the conservative species
				Regular inspection for concerned vegetation and conservative
				species
EIA Table 10.11;			Landscape and	Preservation of existing trees will be undertaken in
EM&A Table 9.1			Visual Impact	accordance with DEVB TC(W) 7/2015 and Guidelines for Tree
				Risk Assessment and Management Arrangement
				Implement temporary traffic arrangement which control
				construction area to minimize landscape and visual impacts
EIA 3.9.1;	Construction	Kong Nga Po Site	Air	Regular inspection and maintenance of plant and equipment
EM&A Log 2.2	of footbridge			in good condition

		<ul> <li>Water spraying during loading and unloading of excavated materials</li> <li>Regularly clean up stockpiles and debris to avoid accumulation of materials</li> <li>Dusty materials exceeding 20 bags shall be stored in area sheltered on top and the three sides or covered entirely by impervious sheeting.</li> </ul>
EIA 4.4.6; EM&A Log 3.2	Noise Control	<ul> <li>Regular inspection and maintenance of plant &amp; equipment in good condition</li> <li>Adopt of Quality Powered Mechanical Equipment (QPME) if possible</li> </ul>
	Working in Restricted Hours	<ul> <li>Valid construction noise permit should be obtained and displayed on site</li> <li>In case of non-compliance with the construction noise criteria, more frequent monitoring and action should be carried out</li> </ul>
EIA 5.6.1.2; EM&A Log 4.2	Water Pollution Control	<ul> <li>Cover the stockpiles of construction materials to reduce the potential for water pollution</li> <li>Provide wastewater treatment facilities prior to discharge of wastewater</li> <li>Wastewater generated from surface runoff shall be treated prior to discharge</li> </ul>
EIA 7.5.1.1;	Waste	Cover stockpiles of C&D materials by impervious sheets to

EM&A Log 6.2			Management	<ul> <li>avoid wind-blown dust.</li> <li>Spray water on all dusty materials including C&amp;D materials immediately prior to any loading transfer operation</li> <li>Segregation and storage of different types of waste in different containers or skips to enhance reuse or recycling of</li> </ul>
				materials and their proper disposal
EIA 7.5.1.4; EM&A Log 6.2			Chemical Waste	Drip tray and chemical spillage kit shall be provided on site
EIA Table 10.11;			Landscape and	Preservation of existing trees will be undertaken in
EM&A Table 9.1			Visual Impact	accordance with DEVB TC(W) 7/2015 and Guidelines for Tree
				Risk Assessment and Management Arrangement
				Implement temporary traffic arrangement which control
				construction area to minimize landscape and visual impacts
EIA 3.9.1;	Backfilling	Kong Nga Po Site	Air	Deploy water bowser for regular water spraying to enhance
EM&A Log 2.2				dust suppression
				Manual water spraying for dusty operation where inaccessible
				by water bowser
				Speed control of site transportation
				Stockpile of dusty materials will be covered by tarpaulin
				sheets to avoid wind-blown dust
				Vehicles used for transporting dusty materials/spoils will be
				covered by mechanical cover before leaving the site

		Wheel washing facilities will be provided and cleaning the wheel of all vehicles before leaving the site
EIA 4.4.6;	Noise Control	Regular inspection and maintenance of plant & equipment in
EM&A Log 3.2		good condition
		Enclose the noisy part of machineries with noise enclosure
		Adopt of Quality Powered Mechanical Equipment (QPME) if possible
	Working in	Valid construction noise permit should be obtained and
	Restricted Hours	displayed on site
		• In case of non-compliance with the construction noise criteria,
		more frequent monitoring and action should be carried out
EIA 5.6.1.2;	Water Pollution	Cover the stockpiles of construction materials to reduce the
EM&A Log 4.2	Control	potential for water pollution
		Provide wastewater treatment facilities prior to discharge of
		wastewater
		Regular inspection and maintenance of wastewater treatment
		facilities
		Wastewater pumped out of the excavation areas will be
		treated to remove suspended solids prior to discharge
		Hard paving or well-compact of main haul road to minimize
		washout of soil
		Wheels of all vehicles and plants will be cleaned before

		leaving the work areas to remove sediment, soil and debris from the tracked. The wastewater will be treated and reused on site or discharged.
EIA 7.5.1.1 &	Waste Generation	Training of site personnel in proper waste management and
7.5.1.2;		chemical handling procedures
EM&A Log 6.2		Proper storage and sorting of excavated inert materials to
		maximize on site reuse for backfilling
		Surplus inert C&D materials will be disposed of at designated
		Government's PFRF or reuse at other contracts.

<sup>\*</sup>EIA Ref/EM&A Log/ Design Document Ref

<sup>\*\*</sup>Details of equipment, vehicles, plants, processes, technologies for the construction method

### Design and Construction of Kong Nga Po Police Training Facilities <u>Proactive Environmental Protection Proforma</u>

Ref*		Proposed	Location/Working	Anticipated	Recommended Mitigation	Photo Records (Partial)
		Construction	Period	Major Impacts	Measures	
		Method				
EIA	3.9.1;	Open cut	Kong Nga Po Site	Dust impact	Manual water spraying	The state of the s
EM&A	Log	excavation			for dust suppression	
2.2					Regular inspection and	
					maintenance of plant	
					and equipment in good	SECTION STATE STATE OF THE SECTION O
					condition	
					• Cover stockpile with	
					impervious sheets or	12.06.2024
					grout	By subcontractor at KNP site
					Provide wheel washing	
					facility at site entrance	

Working Period: June 2024

	By subcontractor at KNP site
	By subcontractor at KNP site

EIA 4.4.6;	Noise	Regular inspection and	THE STATE OF THE S
EM&A Log		maintenance of plant &	Mol
3.2		equipment in good	The same of the sa
		condition	Project Section   Project Se
		Deploy Quality Powered	THE ROLLY OF THE PROPERTY OF T
		Mechanical Equipment	The drive warms Problem (pero vel)
		(QPME) if possible	
		Valid construction noise	<del>05</del> .06.2024
		permit should be	By main contractor at KNP site
		displayed at site entrance.	Sity English Bessian B
			By main contractor at KNP site

EIA 9.7.1 and EM&A Log 8.3			Ecology Concern	•	Provide training to workers about the conservative species Provision of protective fence for the conservative species Regular inspection for concerned vegetation	SC Alle to the rest of the res
					and conservative species	By main contractor at KNP site  29.06.2024  By subcontractor at KNP site
EIA 3.9.1; EM&A Log 2.2	Soil Removal	Kong Nga Po Site	Air	•	Deploy water bowser for regular water spraying	By main contractor at KNP site

- enhance to suppression
  - The speed of the trucks within the site should be controlled to about 10km/hour in order to reduce adverse dust impacts and secure the safe movement around

- dust
- Cover dusty materials with impervious sheets
- Exposed slopes covered with waterproof layers such as tarpaulin sheets or grout to reduce the potential for sediment laden runoff entering the drainage system.
  - the site.



By main contractor at KNP site



By subcontractor at KNP site

EIA 4.4.6; EM&A Log 3.2	Noise	<ul> <li>Regular inspection and maintenance of plant &amp; equipment in good condition</li> <li>Deploy Quality Powered</li> </ul>	Danies Command The Command Proof Camera By 音 Francis Camera By a
		Mechanical Equipment (QPME) if possible  Noise insulating fabric adopted for excavator.	By main contractor at KNP site
			By main contractor at KNP site

EIA 5.6.1. and EM& Log 4.2	Water Quality	Cover exposed slopes with impervious sheets or cement grout.  Wastewater pumped out of the excavation areas shall be treated to remove suspended solid prior to discharge.  Provide desilting/ sedimentation devices for wastewater treatment prior to discharge.  Provide drip tray to prevent spillage of fuels  By main contractor at KNP site  By main contractor at KNP site
		By main contractor at KNP site

By main contractor at KNP site  By main contractor at KNP site	
--	--

EIA Table			Landscape and		Preservation of existing	
10.11; EM&A			Visual Impact	•	trees will be undertaken	
Table 9.1					in accordance with	
					DEVB TC(W) 7/2015 and	
					Guidelines for Tree Risk	
					Assessment and	<b>一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个</b>
					Management	11.06.2024
					Arrangement	
				•	Implement temporary	By main contractor at KNP site
					traffic arrangement	
					which control	
					construction area to	
					minimize landscape and	
					visual impacts	
EIA 3.9.1;	Construction	Kong Nga Po Site	Air	•	Cover dusty materials	
EM&A Log	of footings				with impervious sheets	
2.2				•	Exposed slopes covered	
					with waterproof layers	
					such as tarpaulin sheets	
					or grout to reduce the	
					potential for sediment	40.05.2022
					laden runoff entering	18.06.2024

			the drainage system.  Provide wheel washing facility at site entrance	By main contractor at KNP site  28.06.2024  By main contractor at KNP site
EIA 4.4.6; EM&A Log 3.2	N	Noise	• Valid construction noise permit should be obtained and displayed on site	By main contractor at KNP site

EIA 5.6.1.3	Water Quality	• Surface water from	
and EM&A		concrete batching areas	
Log 4.2		and the rest of the site	
		should be separated as	TO MAKE
		far as possible.	
		• Temporary drainage is	
		free of obstruction.	
		• Gullies are sealed to	
		prevent silt or debris	By subcontractor at KNP site
		from entering the drainage system.	24.06.2024
			By main contractor at KNP site

	12.06.20.4
	By main contractor at KNP site  By main contractor at KNP site

		By main contractor at KNP site
		12.06.2024  By main contractor at KNP site

EIA	7.5.1.2	Waste	•	Segregation and storage	
and	EM&A	Management		of different types of	
Log	6.2			waste in different	
				containers or skips or	
				stockpiles to enhance	SECRETARION OF THE PROPERTY OF
				reuse or recycling of	
				materials and their	
				proper disposal	11.2024
			•	Sort non-inert C&D	By main contractor at KNP site
				materials to recover any	
				recyclable portions	
					By main contractor at KNP site

#### APPENDIX B ACTION AND LIMIT LEVELS

#### Appendix B - Action and Limit Levels

#### Table B-1 Action and Limit Levels for 1-hour TSP

Monitoring station	Action Level (ug/m³)	Limit Level (ug/m³)	
AM1	308	500	
AM2	311	500	

#### Table B-2 Action and Limit Levels for Construction Noise

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

#### Noted:

If works are to be carried during restricted hours, the conditions stipulated in the construction noise permit issued by the Noise Control Authority have to be followed.

APPENDIX C COPIES OF CALIBRATION CERTIFCATES



### RECALIBRATION DUE DATE:

**January 15, 2025** 

# Certificate of Calibration

**Calibration Certification Information** 

Cal. Date: January 15, 2024

Rootsmeter S/N: 438320

Ta: 294
Pa: 755.4

°K mm Hg

Operator: Jim Tisch

Calibration Model #: TE-5025A

Calibrator S/N: 3864

Run	Vol. Init (m3)	Vol. Final (m3)	ΔVol. (m3)	ΔTime (min)	ΔP (mm Hg)	ΔH (in H2O)
1	1	2	1	1.4380	3.3	2.00
2	3	4	1	1.0270	6.4	4.00
3	5	6	1	0.9180	8.0	5.00
4	7	8	1	0.8750	8.9	5.50
5	9	10	1	0.7230	12.9	8.00

	Data Tabulation						
Vstd	Qstd	$\sqrt{\Delta H \left(\frac{Pa}{Pstd}\right) \left(\frac{Tstd}{Ta}\right)}$		Qa	√∆H(Ta/Pa)		
(m3)	(x-axis)	(y-axis)	Va	(x-axis)	(y-axis)		
1.0031	0.6975	1.4195	0.9956	0.6924	0.8823		
0.9989	0.9727	2.0075	0.9915	0.9655	1.2477		
0.9968	1.0858	2.2444	0.9894	1.0778	1.3950		
0.9956	1.1378	2.3539	0.9882	1.1294	1.4631		
0.9903	1.3697	2.8390	0.9829	1.3595	1.7645		
	m= 2.11196			m=	1.32248		
QSTD	b=	-0.05043	QA [	b=	-0.03134		
	r=	0.99998		r=	0.99998		

	Calculation	15		
Vstd=	ΔVol((Pa-ΔP)/Pstd)(Tstd/Ta)	Va=	ΔVol((Pa-ΔP)/Pa)	
Qstd=	Vstd/ΔTime	Qa= Va/ΔTime		
	For subsequent flow rat	e calculatio	ns:	
Qstd=	$1/m\left(\left(\sqrt{\Delta H\left(\frac{Pa}{Pstd}\right)\left(\frac{Tstd}{Ta}\right)}\right)-b\right)$	Qa=	$1/m\left(\left(\sqrt{\Delta H(Ta/Pa)}\right)-b\right)$	

	Standard Conditions
Tstd:	298.15 °K
Pstd:	760 mm Hg
	Key
ΔH: calibrator	manometer reading (in H2O)
ΔP: rootsmete	er manometer reading (mm Hg)
	olute temperature (°K)
Pa: actual bar	ometric pressure (mm Hg)
b: intercept	
m: slope	

#### RECALIBRATION

US EPA recommends annual recalibration per 1998 40 Code of Federal Regulations Part 50 to 51, Appendix B to Part 50, Reference Method for the Determination of Suspended Particulate Matter in the Atmosphere, 9.2.17, page 30

Tisch Environmental, Inc. 145 South Miami Avenue Village of Cleves, OH 45002

www.tisch-env.com

TOLL FREE: (877)263-7610 FAX: (513)467-9009

Rm 1904, Technology Park 18 On Lai Street, Shatin

NT, Hong Kong

Tel: +852 3841 4388 Website: https://www.hpct.com.hk



Report No. : 00655 | Issue Date : 22 Apr 2024

## Internal Report Certificate of Calibration

Description : Equipment stated to be High volume air sampler.

Manufacturer: : Tisch Environmental, Inc.

Other information : N

Model No. TE-5170
Serial No. 10379

Test Period : 19 Apr 2024 to 19 Apr 2024

Test Requested : Performance checking for High volume air sampler

Test Method : According to manufacturer instruction manual and internal method.

Test conditions : Environmental temperature: 20-35 degree Celsius

Relative Humidity: 35-85%

Test Result : Refer to the test result(s) on page 2.

Remark : The result(s) relate only to the items tested or calibrated.

For and on behalf of HIGH PRECISION CHEMICAL TESTING LIMITED

Lee Wai Kit

Laboratory Manager

Rm 1904, Technology Park 18 On Lai Street, Shatin

NT, Hong Kong

Tel: +852 3841 4388 Website: https://www.hpct.com.hk

:



Report No. : 00655 | Issue Date : 22 Apr 2024

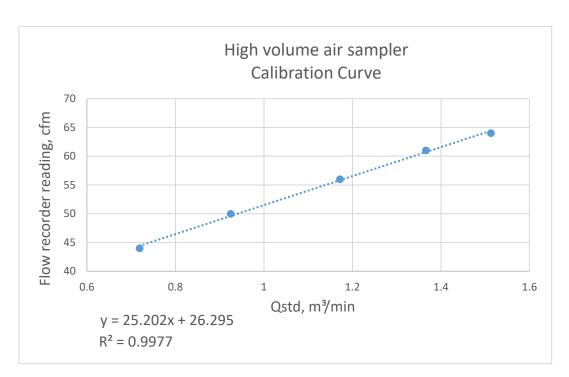
## Internal Report Certificate of Calibration

Measuring equipment

Description	Calibration Orifice
Manufacturer	Tisch Environmental, Inc.
Model No.	TE-5025A
Serial No.	3864

Test Result

Qstd, Actual flow rate, m³/min	1.513	1.366	1.172	0.925	0.719
Flow recorder reading, cfm	64	61	56	50	44
Pressure, mm Hg			757		
Temperature, K			303		



Note : The coefficient of determination (R<sup>2</sup>) of the calibration curve greater than 0.99 after a 5-point calibration, the high volume air sampler complies with the specified requirements and deemed acceptable for use.

- End of report -

Rm 1904, Technology Park 18 On Lai Street, Shatin

NT, Hong Kong

Tel: +852 3841 4388 Website: https://www.hpct.com.hk



Application No. : HP00517

**Certificate of Calibration** 

Applicant : Ka Shing Facility Management Limited

Flat C, 14/ F, Jing Ho Industrial Building,

78-84 Wang Lung Street, Tsuen Wan, N.T., Hong Kong

Sample Description : Submitted equipment stated to be Dust Meter.

Manufacturer: : Met One Instruments

Other information : Model No. Aerocet 831

Serial No. D12641

Date Received : 16 Apr 2024

Test Period : 19 Apr 2024 to 22 Apr 2024

Test Requested : Performance checking for Dust Meter

Test Method : According to manufacturer instruction manual and internal method.

Test conditions : Environmental temperature: 20-35 degree Celsius

Relative Humidity: 35-85%

Test Result : Refer to the test result(s) on page 2.

Remark : 1. Information of the sample description provided by the Applicant.

2. The result(s) relate only to the items tested or calibrated.

For and on behalf of HIGH PRECISION CHEMICAL TESTING LIMITED

Lee Wai Kit

Laboratory Manager

Rm 1904, Technology Park 18 On Lai Street, Shatin

NT, Hong Kong

Tel: +852 3841 4388 Website: https://www.hpct.com.hk



Report No. : 00656 | Issue Date : 23 Apr 2024

Application No. : HP00517

### **Certificate of Calibration**

Measuring equipment

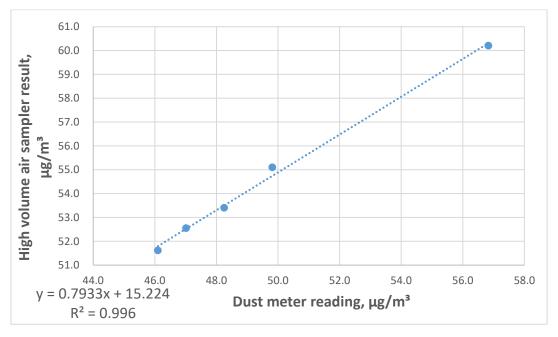
Description	High volume air sampler
Manufacturer	Tisch Environmental, Inc.
Model No.	TE-5170
Serial No.	10379

Date of Calibration : 19 Apr 2024 to 22 Apr 2024

Date of Recommended Re-Calibration : 22 Jun 2024

Test Result : 1 hour Total suspended particulate (TSP)

Calibration Point	Average Dust Meter reading, μg/m³	High volume air sampler results, μg/m³
1	56.8	60.2
2	48.3	53.4
3	46.1	51.6
4	49.8	55.1
5	47.0	52.6



#### Note

- : 1. "Instrument Readings" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.
  - 2. The coefficient of determination (R<sup>2</sup>) of the calibration curve greater than 0.99 after a 5-point calibration, the dust meter complies with the specified requirements and deemed acceptable for use.

- End of report -

Rm 1904, Technology Park 18 On Lai Street, Shatin

NT, Hong Kong

Tel: +852 3841 4388 Website: https://www.hpct.com.hk



Report No. : 00715 Issue Date : 21 Jun 2024

Application No. : HP00577

**Certificate of Calibration** 

Applicant : Ka Shing Facility Management Limited

Flat C, 14/ F, Jing Ho Industrial Building,

78-84 Wang Lung Street, Tsuen Wan, N.T., Hong Kong

Sample Description : Submitted equipment stated to be Dust Meter.

Manufacturer: : Met One Instruments

Other information : Model No. Aerocet 831

Serial No. E11304

Date Received : 12 Jun 2024

Test Period : 17 Jun 2024 to 21 Jun 2024

Test Requested : Performance checking for Dust Meter

Test Method : According to manufacturer instruction manual and internal method.

Test conditions : Environmental temperature: 20-35 degree Celsius

Relative Humidity: 35-85%

Test Result : Refer to the test result(s) on page 2.

Remark : 1. Information of the sample description provided by the Applicant.

2. The result(s) relate only to the items tested or calibrated.

For and on behalf of HIGH PRECISION CHEMICAL TESTING LIMITED

Lee Wai Kit

Laboratory Manager

Rm 1904, Technology Park 18 On Lai Street, Shatin

NT, Hong Kong

Tel: +852 3841 4388 Website: https://www.hpct.com.hk



Report No. : 00715 Issue Date : 21 Jun 2024

Application No. : HP00577

### **Certificate of Calibration**

Measuring equipment

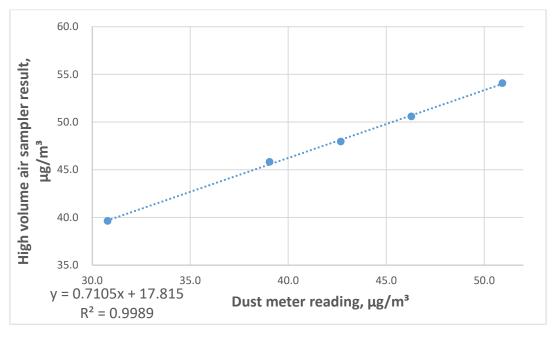
Description	High volume air sampler
Manufacturer	Tisch Environmental, Inc.
Model No.	TE-5170
Serial No.	10379

Date of Calibration : 17 Jun 2024 to 21 Jun 2024

Date of Recommended Re-Calibration : 21 Aug 2024

Test Result : 1 hour Total suspended particulate (TSP)

Calibration Point	Average Dust Meter reading, μg/m³	High volume air sampler results, μg/m³
1	30.8	39.6
2	39.1	45.8
3	46.3	50.6
4	50.9	54.1
5	42.7	48.0



#### Note

- : 1. "Instrument Readings" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.
  - 2. The coefficient of determination (R<sup>2</sup>) of the calibration curve greater than 0.99 after a 5-point calibration, the dust meter complies with the specified requirements and deemed acceptable for use.

- End of report -

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NT, Hong Kong

Tel: +852 3841 4388 Website: https://www.hpct.com.hk



Application No. : HP00516

**Certificate of Calibration** 

Applicant : Ka Shing Facility Management Limited

Flat C, 14/F, Jing Ho Industrial Building,

78-84 Wang Lung Street, Tsuen Wan, N.T., Hong Kong

Sample Description : Submitted equipment stated to be Integrating Sound Level Meter.

Manufacturer: : BSWA Technology

Other information : Mo

Model No.	BSWA 308
Serial No.	610062
Microphone No.	610373

Date Received : 16 Apr 2024

Test Period : 23 Apr 2024 to 23 Apr 2024

Test Requested : Performance checking for Sound Level Meter

Test Method : According to manufacturer instruction manual and internal method.

Test conditions : Room Temperature: 22-25 degree Celsius

Relative Humidity: 35-70%

Test Result : Refer to the test result(s) on page 2.

Remark : 1. Information of the sample description provided by the Applicant.

2. The result(s) relate only to the items tested or calibrated.

For and on behalf of HIGH PRECISION CHEMICAL TESTING LIMITED

Lee Wai Kit Laboratory Manager

Rm 1904, Technology Park 18 On Lai Street, Shatin

NT, Hong Kong

Tel: +852 3841 4388 Website: https://www.hpct.com.hk



Report No. : 00657 Issue Date : 24 Apr 2024

Application No. : HP00516

### **Certificate of Calibration**

Measuring equipment

Description	Sound Calibrator
Manufacturer	Brüel & Kjær
Model No.	TYPE 4231
Serial No.	2326353
Equipment No.	N-02-01

Date of Calibration : 23 Apr 2024

Date of Recommended Re-Calibration : 23 Apr 2025

Test Result

Reference value, dB	Indication value, dB	Deviation, dB	Allowed deviation, dB
94.0	94.0	± 0.0	± 1.5
114.0	114.1	+ 0.1	± 1.5

Note

- : 1. "Instrument Readings" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.
  - 2. The indication value was obtained from the average of ten replicated measurement.

- End of report -



# Calibration Certificate

0039042

Customer:

Ka Shing Facilities Management Ltd. Flat C, 14/F, Jing Ho Industrial Building,

78-84 Wang Lung Street, Tsuen Wan,

Date of the recommended re-calibration:

N. T.

Object 1:

ST120 Sound Calibrator

Serial No. /Ref. No.:

210102628

Object 2:

Serial No. /Ref. No. :

Customer Code:

86254KA301

04/10/2022

Manufacturer:

Soundtek

Date of calibration:

04/10/2023

Certificate No.: Handle by:

0039042 E0002

Measuring results

	Reference value	Indication value	Deviation	Allowed deviation	Object
ſ	94.0dB	94.0dB	0.0dB	+/- 1.5dB	1
I	114.0dB	114.0dB	0.0dB	+/- 1.5dB	

# Measuring equipment

index	Calibrator / Master	Traceability
	Master Sound Meter, BSWA308 EN:ACL011	IEC61672
2	Precise Sound Calibrator, ST120, EQT029A	IEC60942

# **Ambient conditions**

Temperature (20...26)°C

Humidity (20...60)%RH

# Measuring procedure

Calibrated by Type 1 Sound Calibrator with Master Sound Level Meter under 1kHz Frequency.

### Uncertainty

+/- 0.2 dB for probability not less than 95%.

### Conformity

- 1. The resulted values were those obtained at the time of test and applies only to the item calibrated.
- 2. The measurement uncertainty was calculated according to the regulations of GUM with the coverage factor k=2 and contains the uncertainty of the measuring procedure and the uncertainty of the measuring system.
- 3. The equipment being used in this calibration laboratory are regularly calibrated by laboratory according to ISO/IEC17025.
- 4. The test equipment used for calibration are traceable to the Nation Standards as specified in this certificate.
- 5. The calibrations certificate may not be reproduced.

Measured value(s) within

the allowable deviation.

Performed by

Calibration Technician Mr. H. Y. Siu

Approved by

**Quality Manager** 

Mr. K.L. Ng

Appleone Calibration Laboratory Ltd.

Rm1309, 13/F, No.77 Wing Hong St, Kln, HKSAR

Tel: +852 2370 4437 Fax: +852 2114 0393

APPENDIX D ENVIRONMENTAL MONITORING SCHEDULES

#### Environmental Team for Site Formation and Infrastructure Works for Police Facilities in Kong Nga Po Impact Air Quality and Noise Monitoring Schedule June-2024

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
26-May	27-May	28-May	29-May	30-May	31-May	1-Jun
				55)		
2-Jun	3-Jun	4-Jun	5-Jun	6-Jun	7-Jun	8-Jun
	1-hr TSPx3	NM		1-hr TSPx3		
	(AM1, AM2)	(NM9 to NM14		(AM1, AM2)		
	(,	,		(111111)		
9-Jun	10-Jun	11-Jun	12-Jun	13-Jun	14-Jun	15-Jun
		· · · · · · · · · · · · · · · · · · ·			•	
			1-hr TSPx3			
			(AM1, AM2)	(NM9 to NM14)	ŀ	
16-Jun	17-Jun	18-Jun	19-Jun	20-Jun	21-Jun	22-Jun
		1-hr TSPx3	NM			
			(NM9 to NM14			
		(AM1, AM2)	(1111) 00 111111			
23-Jun	24-Jun	25-Jun	26-Jun	27-Jun	28-Jun	29-Jun
zə-Jun		zo-Jun	20-Jun	27-Juli	28-Juli	29-Juli
	1-hr TSPx3					1 1- 500 2
	(AM1, AM2)					1-hr TSPx3
						(AM1, AM2)
						NM
						(NM9 to NM14
30-Jun	1-Jul	2-Jul	3-Jul	4-Jul	5-Jul	6-Jul
		i	i l		l	

#### Environmental Team for Police Facilities in Kong Nga Po Impact Air Quality and Noise Monitoring Schedule July-2024

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
30-Jun	1-Jul	2-Jul	3-Jul	4-Jul	5-Jul	6-Jul
			NM		1-hr TSPx3	
			(NM9 to NM14)		(AM1, AM2)	
7-Jul	8-Jul	9-Jul	10-Jul	11-Jul	12-Jul	13-Jul
		NM				
		(NM9 to NM14)		1-hr TSPx3		
				(AM1, AM2)		
14-Jul	15-Jul	16-Jul	17-Jul	18-Jul	19-Jul	20-Jul
	NM		1-hr TSPx3			
	(NM9 to NM14)		(AM1, AM2)			
21-Jul	22-Jul	23-Jul	24-Jul	25-Jul	26-Jul	27-Jul
		1-hr TSPx3		NM		
				(NM9 to NM14)		
		(AM1, AM2)				
28-Jul		30-Jul	31-Jul	1-Aug	2-Aug	3-Aug
	1-hr TSPx3		NM			
	(AM1, AM2)		(NM9 to NM14)			

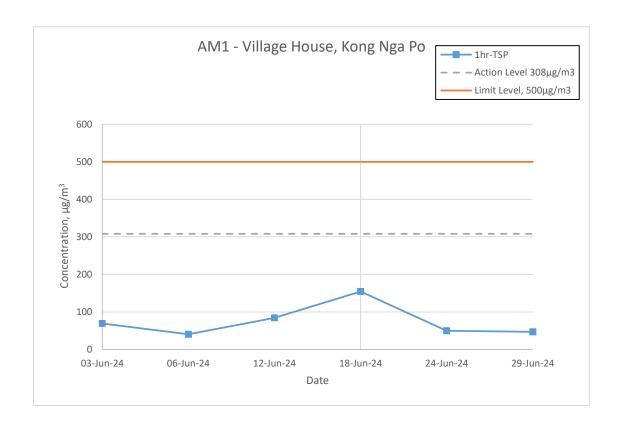
APPENDIX E AIR QUALITY MONITORING RESULTS AND GRAPHICAL PRESENTATION

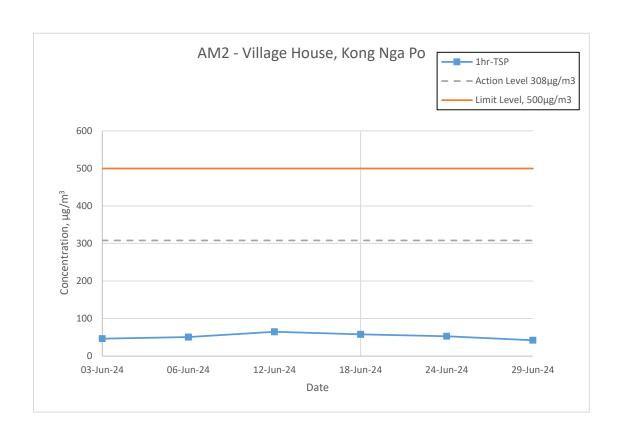
Appendix E - 1-hour TSP Monitoring Results

Location AM1 - Village House, Kong Nga Po				
Date	Time	Weather	Particulate Concentration (µg/m³)	
	9:03		69	
03-Jun-24	10:03	Rain	102	
	11:03		33	
	8:33		40	
06-Jun-24	9:33	Cloudy	22	
	10:33		40	
	9:02		84	
12-Jun-24	10:02	Cloudy	60	
	11:02		46	
	8:57		155	
18-Jun-24	9:57	Sunny	88	
	10:57		82	
	9:08		50	
24-Jun-24	10:08	Fine	59	
	11:08		80	
	9:16	_	47	
29-Jun-24	10:16	Sunny	50	
	11:16		59	
		Minimum	22	
		Maximum	155	
		Average	65	

Doto	Timo	Weather	D-4:1-4- G4:4:4 3\
Date	Time	Weather	Particulate Concentration (μg/m <sup>3</sup> )
	13:11	_	46
03-Jun-24	14:11	Rain	59
	15:11		58
	13:07		51
06-Jun-24	14:07	Cloudy	25
	15:07		49
-	13:01		65
12-Jun-24	14:01	Cloudy	37
	15:01		44
	13:26		58
18-Jun-24	14:26	Sunny	63
	15:26		43
_	13:25		53
24-Jun-24	14:25	Fine	56
	15:25		58
	13:13		42
29-Jun-24	14:13	Sunny	22
	15:13	]	34
	,	Minimum	22
		Maximum	65
		Average	48

#### 1-hr TSP Concentration Levels





APPENDIX F NOISE MONITORING RESULTS AND GRAPHICAL PRESENTATION

#### Appendix F -Noise Monitoring Results

Location NM9 - Village House, Kong Nga Po									
Date	Weather	Wind Speed	Time	Unit	:: dB(A) (5-1	nin)	Average	Limit Level	Baseline
		(m/s)		$L_{eq}$	$L_{10}$	L <sub>90</sub>	$L_{eq}$	$L_{\sf eq}$	$L_{eq}$
				59.1	58.0	50.5			
				54.6	57.0	51.1	<u> </u>		
04-Jun-24	Cloudy	1.6	14:15	54.9	57.3	51.3	55.3	75.0	55.9
04-Juii-24	Cloudy	1.0	14.13	53.8	56.3	50.9		73.0	33.9
				53.4	55.4	50.4	1		
				52.0	54.3	48.5			
				61.1	62.3	52.7	]		
		0.2		57.5	58.9	53.9	61.7		
13-Jun-24	Sunny		13:20	61.6	64.2	57.3		75.0	55.9
15 Jun 24	Sumiy		13.20	61.7	66.5	57.9		75.0	33.7
				59.8	61.1	56.8			
				64.9	67.8	57.1			
			13:00	60.1	57.5	46.0	<b>.</b>	75.0	
				51.2	53.1	47.1	57.5		55.9
19-Jun-24	Sunny	0.3		56.0	58.1	51.7			
17 Jun 24	Sumiy	0.5		61.0	68.5	51.0	]	75.0	
				52.9	55.6	50.3	<u> </u>		
				56.0	56.4	50.9			
				54.6	57.8	48.2	<b>.</b>		
				51.3	53.5	48.1	<b>↓</b>		
29-Jun-24	Sunny	0.0	9:03	53.9	57.6	50.1	53.3	75.0	55.9
2) Juli 27	Summy	0.0		53.6	54.9	49.9	33.3	73.0	
				52.5	54.3	48.4			
				53.4	56.4	48.4			

Location NM10 - Village House, Kong Nga Po										
Date	Weather	Wind Speed	Time	Unit	Unit: dB(A) (5-min)			Limit Level	Baseline	
		(m/s)		$L_{eq}$	$L_{10}$	L <sub>90</sub>	Leq	$L_{ ext{eq}}$	$L_{eq}$	
				58.1	59.2	48.5		75.0		
				49.3	51.1	46.3				
04-Jun-24	Cloudy	0.81	14:49	49.8	52.1	46.7	52.8		52.8	
04-Jun-24	Cloudy	0.01	14.49	49.7	51.8	47.0	32.0	73.0	32.0	
				50.1	52.2	47.4				
				50.4	52.2	47.5				
				52.8	52.5	47.9				
		0.16	13:54	53.2	56.2	48.0	56.9	75.0		
13-Jun-24	Sunny			62.5	70.2	49.1			52.8	
13-3411-24	Summy			50.5	52.2	48.5		75.0	32.0	
				49.5	51.3	47.6				
				57.3	54.2	48.3				
		0.14	13:37	53.2	54.8	49.2		75.0	52.8	
				52.4	53.4	49.2				
19-Jun-24	Sunny			50.9	52.6	49.0	52.4			
19 3411 21	Buility	0.11		51.2	53.4	49.0	] 32.1	75.0	32.0	
				53.1	56.8	49.3				
				53.2	54.2	49.0				
				53.8	56.5	48.3				
				50.8	52.8	48.4				
29-Jun-24	Sunny	0.00	9:38	54.7	60.2	48.8	53.2	75.0	52.8	
2) Juli 21	Dainiy	0.00		52.1	54.1	48.8		/3.0	32.0	
				54.4	57.4	49.1				
				52.4	54.7	48.7				

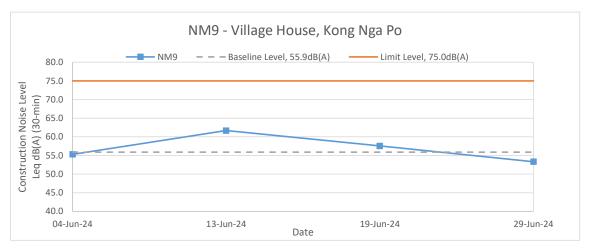
Location NM11 - Village House, Kong Nga Po									
Date	Weather	Wind Speed	Time	Unit	: dB(A) (5-r	nin)	Average	Limit Level	Baseline
		(m/s)		$L_{eq}$	L <sub>10</sub>	L <sub>90</sub>	$L_{eq}$	$\mathrm{L}_{\mathrm{eq}}$	$L_{eq}$
				57.6	57.2	43.9		75.0	
				59.4	61.7	45.2	<u> </u>		
04-Jun-24	Cloudy	0.02	15:32	51.1	55.3	44.9	54.7		46.4
04-3411-24	Cloudy	0.02	13.32	48.2	50.1	45.3	34.7		40.4
				47.2	48.6	44.6	_		
				49.4	49.0	43.2			
				64.5	60.0	44.7	<u> </u>		
		0.34		51.5	53.0	49.2	58.5		
13-Jun-24	Sunny		14:37	57.2	62.5	49.8		75.0	46.4
13 3411 21	Buility		1.10	51.7	52.5	50.7		75.0	10.1
				55.2	57.4	53.5			
				54.7	55.1	53.9			
		0.73	14:13	54.8	55.7	49.8	<u> </u>	75.0	
				55.4	59.2	50.3	_		
19-Jun-24	Sunny			56.7	57.8	55.6	54.8		46.4
19 3411 21	Damiy	0.75		55.5	56.9	51.1	] 51.0	75.0	10.1
				51.7	52.8	50.6	_		
				52.5	55.2	50.5			
				53.8	55.9	48.7	_		
				50.8	51.8	48.4	<u> </u>		
29-Jun-24	Sunny	0.02	10:16	53.7	55.0	48.1	58.0	75.0	46.4
25 3411 21		0.02		57.3	59.3	41.6			10.1
				60.2	55.7	41.2			
				62.1	54.7	41.8			

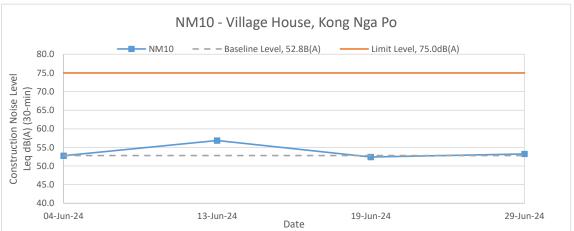
Location NM12 - Village House, Kong Nga Po Limit Average Wind Speed Unit: dB(A) (5-min) Baseline Level Date Weather Time (m/s)  $L_{\text{eq}}$  $L_{eq}$  $L_{10}$  $L_{90}$  $L_{\text{eq}}$  $L_{\text{eq}} \\$ 68.4 71.4 61.9 60.4 65.5 44.0 52.8 57.2 43.0 04-Jun-24 0.75 63.3 75.0 54.7 Cloudy 16:47 42.3 48.8 51.8 42.3 62.7 61.1 64.2 53.3 67.4 55.2 44.9 58.6 51.6 54.1 44.4 49.5 53.8 44.5 13-Jun-24 0.04 16:01 52.7 75.0 54.7 Sunny 50.1 52.3 44.8 44.9 54.5 56.7 52.5 58.2 44.5 70.4 72.2 64.7 68.1 70.6 69.1 70.2 70.1 70.7 19-Jun-24 Sunny 0.04 15:25 68.7 75.0 54.7 70.8 68.0 70.4 66.1 69.2 66.6 70.0 67.7 70.2 53.3 57.1 45.6 50.5 55.4 44.7 44.7 47.5 48.4 29-Jun-24 53.6 54.7 Sunny 0.12 13:01 75.0 53.9 54.2 45.3 52.2 57.0 45.6 57.7 59.6 42.0

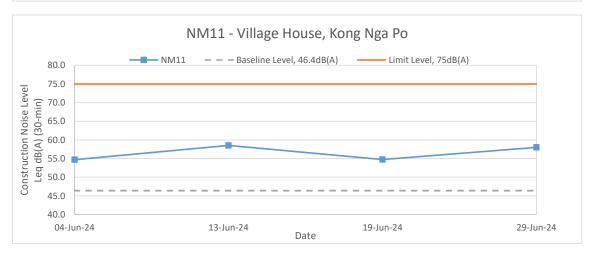
Location NM13 - Village House, Kong Nga Po										
Date	Weather	Wind Speed (m/s)	Time	Unit	Unit: dB(A) (5-min)			Limit Level	Baseline	
		(111/8)		$L_{eq}$	L <sub>10</sub>	$L_{90}$	$L_{eq}$	$\mathrm{L}_{\mathrm{eq}}$	$L_{eq}$	
				60.5	59.4	46.1				
				51.5	53.7	45.9		75.0		
04-Jun-24	Cloudy	0.40	16:08	54.2	57.0	46.9	58.0		61.3	
04-Jun-24	Cloudy	0.40	10.06	51.1	51.9	46.4	30.0		01.5	
				58.7	61.1	46.2				
				61.5	61.9	45.5				
				56.0	56.7	45.6	]			
		0.07	15:12	57.1	60.3	46.1	56.7			
13-Jun-24	Sunny			56.1	61.5	45.5		75.0	61.3	
13-3411-24	Summy			54.8	57.7	45.3		15.0	01.5	
				55.4	59.7	45.3				
				59.2	60.0	46.5				
		0.00	14:47	56.0	56.8	48.8	56.3	75.0		
				53.9	54.5	52.7				
19-Jun-24	Sunny			55.0	55.7	54.0			61.3	
17-3411-24	Summy	0.00		53.8	54.6	53.0	30.5	13.0	01.5	
				51.5	52.9	48.7	]			
				60.9	61.4	48.2				
				58.0	62.7	45.1	]			
29-Jun-24				56.8	61.1	39.7				
	Sunny	0.05	11:02	62.8	55.0	37.3	57.9	75.0	61.3	
	Junity	0.05		51.3	43.4	37.6		15.0	01.5	
				57.1	56.8	37.8	]			
				39.7	41.6	37.3				

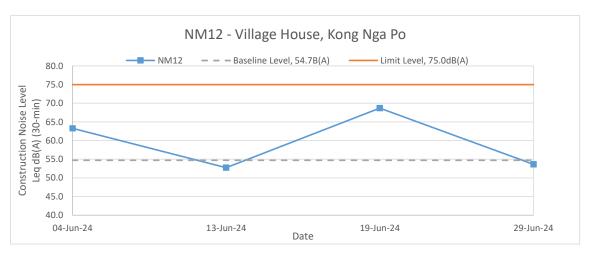
Location NM	Location NM14 - Village House, near Man Kam To Road											
Date	Weather	Wind Speed	Time	Unit	Unit: dB(A) (5-min)			Limit Level	Baseline			
		(m/s)		$L_{eq}$	$L_{10}$	L <sub>90</sub>	L <sub>eq</sub>	$\mathrm{L}_{\mathrm{eq}}$	$L_{eq}$			
				65.7	64.1	45.6						
				49.7	53.1	41.1						
04-Jun-24	Cloudy	0.30	17:28	45.5	48.0	41.5	65.0	75.0	59.6			
04-Juii-24	Cloudy	0.50	17.20	47.8	50.7	42.0	05.0		39.0			
				67.4	60.0	42.2						
				69.9	74.9	49.2						
				58.4	58.7	44.5						
		0.00	16:50	55.3	58.9	44.1	57.7					
13-Jun-24	Sunny			52.2	54.1	48.9		75.0	59.6			
15 3411 21	Dainiy			50.1	50.8	48.3		73.0	37.0			
				63.2	70.7	48.7						
				52.0	54.9	43.3						
		0.14	15:59	69.3	72.1	57.8	71.2	75.0				
				73.2	73.7	61.1						
19-Jun-24	Sunny			68.0	71.5	60.3			59.6			
19 3411 21	Buility	0.11	15.57	70.9	72.8	63.3	''.2	75.0	37.0			
				66.4	70.7	58.4						
				74.3	73.5	61.4						
				57.0	42.6	41.6						
29-Jun-24				59.3	50.5	42.0	57.0					
	Sunny	0.14	13:45	50.8	51.2	49.3		75.0	59.6			
	2 3-1111	0.14		59.8	56.6	47.1		75.0	23.0			
				55.8	58.8	47.7						
				53.4	55.0	44.1						

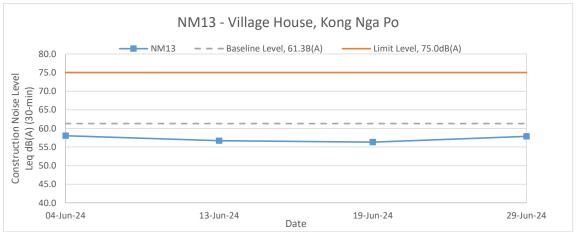
#### Noise Levels

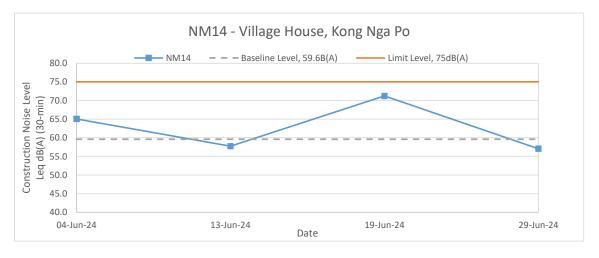












#### APPENDIX G WEATHER CONDITION

Appendix G – General Weather Conditions during the Monitoring Period June 2024

	Mean	Air Temperature			Mean	Mean	Mean	Total	
Date June	Pressure				Dew Point Temperature	Relative Humidity	Amount of Cloud	Rainfall	
	(hPa)	Maximum (deg. C)	Mean (deg. C)	Minimum (deg. C)	(deg. C)	(%)	(%)	(mm)	
1	1007.8	29.8	27.1	25.6	24.9	88	89	54.2	
2	1007.3	30.3	28	25.8	25	84	86	3.2	
3	1008.4	28.2	25.3	23.8	23.6	91	88	8.6	
4	1009.9	24.9	24.1	22.9	21.5	86	88	2.9	
5	1010.2	25.4	24.4	23.4	22.7	90	88	8.5	
6	1009.4	28.7	26.5	24.7	24.4	88	88	Trace	
7	1007.9	26.6	25.6	25.1	24.2	92	94	1.6	
8	1006.9	28.9	26.3	24.8	24.5	90	88	6.8	
9	1008.3	27.5	26.6	25.3	25.3	93	86	33.5	
10	1008.9	30.7	28.5	26.5	25.6	85	86	0.2	
11	1008.1	30.8	29.1	28.2	26.1	84	88	0.6	
12	1006.9	31.8	29.5	28.1	26.4	83	88	8.3	
13	1004.7	32	29.9	28.7	26.8	83	86	4.9	
14	1004.1	30.4	29.7	27.7	26.4	82	89	32	
15	1004.6	30	28.2	25	25.6	86	88	28.3	
16	1006.2	30.9	28.8	26.1	26.1	86	88	17.5	
17	1006.6	32.7	30.1	28.6	26.2	80	88	Trace	
18	1005.9	32.1	29.9	27.6	26.3	81	88	4.6	
19	1005.7	32.2	30	28	26.2	80	88	9.4	
20	1005.6	33	30	27.3	26.5	82	86	5	
21	1006	34	30.8	28.7	25.9	76	77	-	
22	1006.4	33.8	31.2	29.5	26.3	75	86	-	
23	1006.7	33.9	30.5	27.9	26.1	78	86	4.7	
24	1007.3	33.4	30.8	28.8	26.2	77	88	0.3	
25	1009.2	33.2	30.1	26.5	26	79	88	19	
26	1011.3	34	30.4	27.9	26.2	79	79	-	
27	1010.9	34.4	30.7	28.4	26.5	79	73	1.4	
28	1008.9	34.2	31	28.9	26	75	76	1.6	
29	1007.6	31.5	29.2	26.8	25.8	82	86	15.5	
30	1006.6	32	30.3	27.7	26.3	79	88	8.7	
Mean/Total	1007.5	31	28.8	26.8	25.5	83	86	281.3	
Normal*	1006.1	30.7	28.3	26.5	24.9	82	77	491.5	

st The above information was extracted from the daily weather summary by Hong Kong Observatory.

### APPENDIX H ECOLOGICAL MONITORING RESULTS

Post-transplantation monitoring records for transplanted flora species (June 2024)

# Contract No.: SS K509 Design and Construction of Kong Nga Po Police Training Facilities

### Monitoring and Maintenance Works Report

INSPECTION DATE: 29 JUNE 2024 REPORT DATE: 30 JUNE 2024

> PREPARED BY: Lau Siu Yeung, Andy (UKAA PR5206)

> > Version: 00

#### Template of Post-transplantation Monitoring Checklist Design and Construction of Kong Nga Po Police Training Facilities

						Audit R	tef. No		_
Contra	act	SS K509							
Inspect	ed By	Lau Siu Yeung (Andy)				06/2024 0 to 16:00			
Part A Conditi Tempe	ion	ther Sunny Fine Overcast Drizzle  29.2 °C	Rain	Sí	corm	Hazy			
Humid Wind	ity	High (RH>90%) Moderate (90%>RH>50%)  Calm Light Breeze Strong	Low (F	RH<50%)					
D . D			r not observed	Yes	No	Follow-up	N/C	Remarks	_
Part B	Cycadfer	n <i>Brainea insignis</i>							
1.1	Are the pl	ants' health conditions satisfactory?		$\triangleleft$					
1.2	Are transp	planted plants on site protected carefully?		$\triangleleft$					
1.3	Are the te	mporary protective fence properly erected and maintained?		$\Box$					
1.4	Are the pl	ant protection zone set 1m from the plants?		$\triangleleft$					
1.5	Are all gra	assed and planted area kept free from weeds/unwanted plants?							
1.6	Is compac	tion of the soil avoided for the plants?							
1.7	Are litter/	unwanted material removed within the planting area?		$\Box$					
1.8	Are equip	ment or stockpile placed outside the protection zone?							
1.9		lebris or construction materials deposited around and against the plant as this causes bark damage avoided?		$\square$					
1.10	Are fixing	s driven into plants avoided?							
1.11	Are the pl signs avoi	ants used for anchoring or winching purposes or for the display of ded?		$\triangle$					
1.12		re lit below the branches and petrol, oil or caustic substances stored lants avoided?		$\triangle$					
1.13	Are all pla	ants kept free from pest, disease or fungal infection?							
1.14	Are there	enough area for growth and development of plant roots?							
1.15a	Is exposur	re of plant roots avoided?		$\triangle$					
1.15b	If not, wer	re broken off or rotting of roots avoided?		$\square$					
2.	Ladies Ti	N/A o	r not observed	Yes	No	Follow-up	N/C	Remarks	
2.1		ants' health conditions satisfactory?							
2.2	Are transp	planted plants on site protected carefully?							
2.3	Are the te	mporary protective fence properly erected and maintained?							
2.4	Are the pl	ant protection zone set 1m from the plants?							
2.5	Are all gra	assed and planted area kept free from weeds/unwanted plants?		$\triangle$					
2.6	Is compac	tion of the soil avoided for the plants?							
27	Ara littar/	unwanted material removed within the planting area?							

#### Template of Post-transplantation Monitoring Checklist Design and Construction of Kong Nga Po Police Training Facilities

		N/A or not observed	Yes	No	Follow-up	N/C	Remarks
2.8	Are equipment or stockpile placed outside the protection zone?		$\square$				
2.9	Are soil, debris or construction materials deposited around and against thrunk of a plant as this causes bark damage avoided?	he	$\square$				
2.10	Are fixings driven into plants avoided?						
2.11	Are the plants used for anchoring or winching purposes or for the displaying signs avoided?	y of	$\triangle$				
2.12	Are the fire lit below the branches and petrol, oil or caustic substances so near the plants avoided?	tored	$\triangle$				
2.13	Are all plants kept free from pest, disease or fungal infection?		$\Box$				
2.14	Are there enough area for growth and development of plant roots?		$\triangle$				
2.15a	Is exposure of plant roots avoided?		$\square$				
2.15b	If not, were broken off or rotting of roots avoided?		$\triangle$				
$\overline{\ }$	Incense Trees Aquilaria sinesis	N/A or not observed	Yes	No	Follow-up	N/C	Remarks
3.1	Are the trees's health conditions satisfactory?						
3.2	Are transplanted trees on site protected carefully?						
3.3	Are the temporary protective fence properly erected and maintained?						
3.4	Are the tree protection zone set 1m from the trees?						
3.5	Are all grassed and planted area kept free from weeds/unwanted plants?						
3.6	Is compaction of the soil avoided for the trees						
3.7	Are litter/ unwanted material removed within the planting area?						
3.8	Are equipment or stockpile placed outside the protection zone?						
3.9	Are soil, debris or construction materials deposited around and against the trunk of a tree as this causes bark damage avoided?	he					
3.10	Are fixings driven into trees avoided?						
3.11	Are the trees used for anchoring or winching purposes or for the display signs avoided?	of					
3.12	Are the fire lit below the branches and petrol, oil or caustic substances so near the trees avoided?	tored					
3.13	Are all trees kept free from pest, disease or fungal infection?		A				
3.14	Are there enough area for growth and development of tree roots?			$\Box$			
3.15a	Is exposure of tree roots avoided?						
3.15b	If not, were broken off or rotting of roots avoided?						
3.16	Are wounds/mechanical injuries avoided on tree trunk?					A	
3.17	Are leaning of trees avoided?						
3.18	Are dead/detached branches avoided?						
3.19	Are decay/cavity avoided on tree trunks?						

## Template of Post-transplantation Monitoring Checklist Design and Construction of Kong Nga Po Police Training Facilities

art C	Follow-up for the Previou	s Site Audit on Date:	(Ref. No	)				
	York a standard in terms	:	N/A or not observed	Yes	No	Follow-up	N/C	Remarks
	Is the situation in item  Is the situation in item			H	Н	$\mathbb{H}$	$\mathbb{H}$	
				믬	H	H	$\vdash$	
	Is the situation in item  Is the situation in item	improved/rectified?		$\vdash$	$\vdash$	H	$\vdash$	
	Is the situation in item			H	H	H	$\vdash$	
	Is the situation in item		H		님	H	H	
	Is the situation in item	r	H	H	H	H	$\vdash$	
	Is the situation in item	-	H	H	H	H	$\vdash$	
	Is the situation in item		H	H	H	$\forall$	$\vdash$	
	Is the situation in item			H	H	H	$\vdash$	
				ш	Ш		ш	
emarl	ks/Observations							
mari	ks/Observations							
	Signatures:							

(Name: (Date:

Contract No.: SS K509

Design and Construction of Kong Nga Po Police Training Facilities

Monitoring and Maintenance Works for Flora Species of Conservation Interest

Inspection Date: 29/6/2024

Tree/Plant/	Number of		Form	Health			
Colony No.	Individuals	Species Name	(Good/Fair/Poor)	(Good/Fair/Poor)	Remark		
colony 110.	01	Brainea insignis	F	F	Young leaves observed		
	02	Brainea insignis	F	F	Young leaves observed		
	03	Brainea insignis	F	F	Young leaves observed		
	04	Brainea insignis	F	F	Young leaves observed		
C-0001	05	Brainea insignis	F	F	Young leaves observed		
	06	Brainea insignis	F	F	Young leaves observed		
	07	Brainea insignis	F	F	Young leaves observed		
	08	Brainea insignis	F	F	Young leaves observed		
	01	Brainea insignis	F	F	Young leaves observed		
	02	Brainea insignis	F	F	Young leaves observed		
	03	Brainea insignis	F	P	Young leaves observed		
	04	Brainea insignis	F	P	Young leaves observed		
C-0002	05	Brainea insignis	F	F	Young leaves observed		
	06	Brainea insignis	F	F	Young leaves observed		
	07	Brainea insignis	F	F	Young leaves observed		
	08	Brainea insignis	F	F	Young leaves observed		
C-0003	01		F	F	Young leaves observed		
C-0003	01	Brainea insignis Brainea insignis	P	P	•		
					Young leaves at base; Dry out		
	01				caused by bushfire initially		
					outside site boundary and high		
	02	Prainag insignis	F	F	temperature on 2 Feb 2021		
	03	Brainea insignis	F	F	Young leaves observed		
	04	Brainea insignis	F	F	Young leaves observed		
		Brainea insignis	F	F	Young leaves observed		
	05	Brainea insignis			Young leaves observed		
	06	Brainea insignis	F	F	Young leaves observed		
	07	Brainea insignis	F	F	Young leaves observed		
	08	Brainea insignis  Brainea insignis	F P	F P	Young leaves observed		
					Dry out caused by bushfire		
	09				initially outside site boundary		
					and high		
	10	B	-	ъ	temperature on 2 Feb 2021		
	10	Brainea insignis	F	P	Young leaves at base		
	11	Brainea insignis	F	F	Young leaves observed		
	12	Brainea insignis	F	P	Young leaves observed		
C-0004					Stem not found		
	13	Brainea insignis	-	-	Dry out caused by bushfire		
					initially outside site boundary		
					and high temperature on 2 Feb		
	14	Prainag insignis	F	F	2021 Young leaves observed		
	14	Brainea insignis	I'	Г	Young leaves at base; Dry out		
					_		
	15	Brainea insignis	P	P	caused by bushfire initially outside site boundary and high		
					temperature on 2 Feb 2021  Dry out caused by bushfire		
		Brainea insignis	P	P	initially		
	16				outside site boundary and high		
					temperature on 2 Feb 2021		
	17	Brainea insignis	P	P	Young leaves observed		
	1/	Brainea insignis  Brainea insignis			Burned by bushfire initially		
	18				outside the site boundary on 2		
	10				Feb 2021.		
	19	Brainea insignis	F	P	-		
	20	Brainea insignis	F	F	Young leaves observed		
			1 1	<u> </u>	1 04115 104105 00501 104		

Contract No.: SS K509

Design and Construction of Kong Nga Po Police Training Facilities

Monitoring and Maintenance Works for Flora Species of Conservation Interest

Inspection Date:

29/6/2024

Tree/Plant/ Health Number of Form Species Name Remark Colony No. Individuals (Good/Fair/Poor) (Good/Fair/Poor) 01 Brainea insignis F F Young leaves observed 02 F F Brainea insignis Young leaves observed 03 F F Brainea insignis Young leaves observed C-0005 04 F F Brainea insignis Young leaves observed 05 Brainea insignis F P Young leaves observed 06 Brainea insignis F F Young leaves observed 07 F F Young leaves observed Brainea insignis C-0006 F F 01 Brainea insignis Young leaves observed 01 F F Young leaves observed Brainea insignis C-0007 P 02 Brainea insignis F 01 F F Young leaves observed Brainea insignis 02 F F Young leaves observed Brainea insignis 03 P P Young leaves observed Brainea insignis C-0008 04 F F Brainea insignis Young leaves observed 05 F F Young leaves observed Brainea insignis P 06 Brainea insignis F 07 F P Brainea insignis Young leaves at base 01 F F C-0009 Brainea insignis Young leaves observed 01 Brainea insignis F F Young leaves observed C-0010 02 F F Brainea insignis Young leaves observed 03 F Brainea insignis F Young leaves observed Dry out caused by bushfire initially outside site boundary 01 P P Brainea insignis and high temperature on 2 Feb 2021 P 02 Brainea insignis F 03 Brainea insignis P P Young leaves at base 04 F F Young leaves at base Brainea insignis 05 Brainea insignis F P Young leaves at base C-0011 06 F F Brainea insignis Young leaves at base 07 Brainea insignis P P Young leaves at base F F 08 Brainea insignis Young leaves observed 09 P P Brainea insignis 10 F Brainea insignis F Young leaves observed 11 Brainea insignis F F Young leaves observed 12 P P Brainea insignis 13 F F Brainea insignis Young leaves observed



C0001(Patch)\_01





C0001(Patch)\_03





C0001(Patch)\_05





C0001(Patch)\_07





C0002(Patch)\_01





C0002(Patch)\_03





C0002(Patch)\_05





C0002(Patch)\_07





C-0003



C0004(Patch)\_01





C0004(Patch)\_03





C0004(Patch)\_05





C0004(Patch)\_07





C0004(Patch)\_09





C0004(Patch)\_11







Contract No.: SS K509



C0004(Patch)\_15





C0004(Patch)\_17





C0004(Patch)\_19



Contract No.: SS K509



C0005(Patch)\_01



Contract No.: SS K509



C0005(Patch)\_03





C0005(Patch)\_05





C0005(Patch)\_07









C0008(Patch)\_01





C0008(Patch)\_03





C0008(Patch)\_04





C0008(Patch)\_06



Contract No.: SS K509



C-0009



C0010(Patch)\_01





C0010(Patch)\_03



C0011(Patch)\_01





C0011(Patch)\_03





C0011(Patch)\_05





C0011(Patch)\_07





C0011(Patch)\_09





C0011(Patch)\_11





C0011(Patch)\_13

Design and Construction of Kong Nga Po Police Training Facilities

Monitoring and Maintenance Works for Flora Species of Conservation Interest

Inspection Date: 29/6/2024

Tree/Plant/ Colony No.	Species Name	Form (Good/Fair/Poor)	Health (Good/Fair/Poor)	Remark
L-0001	Spiranthes sinensis	-	-	Not observed
L-0002	Spiranthes sinensis	-	-	Not observed
L-0003	Spiranthes sinensis	-	-	Leaf observed
L-0004	Spiranthes sinensis	-	-	Leaf observed
L-0005	Spiranthes sinensis	-	-	Not observed
L-0006	Spiranthes sinensis	-	-	Not observed
L-0007	Spiranthes sinensis	-	-	Not observed
L-0008	Spiranthes sinensis	F	F	Leaf observed
L-0009	Spiranthes sinensis	-	-	Not observed
L-0010	Spiranthes sinensis	-	-	Not observed
L-0011	Spiranthes sinensis	-	-	Not observed
L-0012	Spiranthes sinensis	-	-	Not observed
L-0013	Spiranthes sinensis	-	-	Not observed
L-0014	Spiranthes sinensis	P	P	Leaf observed
L-0015	Spiranthes sinensis	-	-	Leaf observed
L-0016	Spiranthes sinensis	-	-	Not observed
L-0018	Spiranthes sinensis	F	F	Leaf observed
L-0019	Spiranthes sinensis	-	-	Not observed
L-0020	Spiranthes sinensis	-	-	Not observed
L-0021	Spiranthes sinensis	-	-	Not observed
L-0022	Spiranthes sinensis	F	F	Leaf observed
L-0023	Spiranthes sinensis	-	_	Not observed
L-0024	Spiranthes sinensis	P	P	Leaf observed
L-0025	Spiranthes sinensis	-	-	Not observed
L-0026	Spiranthes sinensis	-	-	Not observed
L-0027	Spiranthes sinensis	-	-	Not observed
L-0028	Spiranthes sinensis	-	-	Not observed
L-0029	Spiranthes sinensis	-	-	Not observed
L-0030	Spiranthes sinensis	-	-	Not observed
L-0031	Spiranthes sinensis	F	F	Leaf observed
L-0032	Spiranthes sinensis	-	-	Not observed
L-0033	Spiranthes sinensis	-	-	Not observed
L-0034	Spiranthes sinensis	-	-	Not observed
L-0035	Spiranthes sinensis		-	Not observed
L-0036	Spiranthes sinensis	_	-	Not observed
L-0037	Spiranthes sinensis	F	F	Leaf observed
L-0038	Spiranthes sinensis	P	P	Leaf observed
L-0039	Spiranthes sinensis	-	-	Not observed
L-0040	Spiranthes sinensis	-	-	Not observed
L-0041	Spiranthes sinensis	-	-	Not observed
L-0042	Spiranthes sinensis	-	-	Not observed



L-0001





L-0003





L-0005





L-0007



Contract No.: SS K509 Design and Construction of Kong Nga Po Police Training Facilities

Monitoring and Maintenance Works for Flora Species of Conservation Interest



L-0009





L-0011









L-0014













L-0020





L-0022





L-0024





L-0026



L-0027



L-0028









L-0032





L-0034











L-0038





L-0040





L-0042

Design and Construction of Kong Nga Po Police Training Facilities

Monitoring and Maintenance Works for Flora Species of Conservation Interest

### Hong Da Landscaping Limited

Vegetation Maintenance Record Sheet (June 2024)

Description of Work																Date														
Description of Work	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Watering						Y	Y			Y	Y						Y				Y	Y		Y		Y		Y		
Weeding																													Y	
Fertilization																														
Pest/Disease Control																														
Firming up of fence																													Y	
Installation of shaded net																													Y	
Mulching																														
Inspection																													Y	
Checking of Protection Zone																													Y	
Remarks	R, MH	R, MH	R, RH	R, MH	R, MH	МН	R, RH	R, MH	R, RH	R, MH	МН	R, MH	R, MH	R, MH	МН	МН	R, MH	МН	R, MH	МН	R, MH	R, MH	R, MH	R, MH						
	Publ	ic Ho	liday		Н-Нс	ot	D-Dr	izzle		R-Ra	iny		W-W	indy		RH-F	ligh H	Iumid	ity	MH-N	Mediu	m Hu	midity	ı	LH-L	ow H	umidi	ty		







Weeding (2)

## Post-transplantation Monitoring Checklist Police Facilities in Kong Nga Po

Contract	Provision of Environmental Team		
	Consultancy for Design and Construction		
	of Kong Nga Po Police Training Facilities		
	(Programme no. 279LP)		
Inspected By	ET	Inspection Date	24-6-2024
Part A	Weather		
Condition	Sunny Fine Overcast Drizzle		
	Rain Hazy		
Wind	Calm Light Breeze Strong		
Part B		N/A or Yes	NO Remarks
1 C <sub>\</sub>	vcadfern Brainea insignis	not observed	
-	•		
1.1 1.2	Is the general well-being of the plants deemed satisfactory?  Are appropriate measures being taken to ensure the careful protection of the		
	transplanted plants on site?		
1.3	Has the temporary protective fence been correctly installed and is it being properly maintained?		
1.4	Has the plant protection zone been established at a distance of 1m from the plants as required?		
1.5	Are all areas covered with grass and plants consistently maintained free from weeds and unwanted vegetation?		
1.6	Are measures taken to prevent soil compaction and protect the plants?		
1.7	Is prompt removal of litter and unwanted materials maintained in the planting area?		
1.8	Are fixings being prevented from being driven into the plants?		
1.9	Are the plants being intentionally avoided for the purpose of anchoring, winching, or displaying signs?		
1.10	Are all plants consistently maintained free from pests, diseases, or fungal infections?		
1.11	Is there sufficient space provided for the growth and development of plant roots?		
1.12a	Is the exposure of plant roots being prevented?		
1.12b	If not, are broken or rotting roots being avoided?		
2 La	dies Tresses Spiranthes sinensis		
2.1	Is the general well-being of the plants deemed satisfactory?		
2.2	Are appropriate measures being taken to ensure the careful protection of the transplanted plants on site?		
2.3	Has the temporary protective fence been correctly installed and is it being properly maintained?		
2.4	Has the plant protection zone been established at a distance of 1m from the plants as required?		
2.5	Are all areas covered with grass and plants consistently maintained free from weeds and unwanted vegetation?		
2.6	Are measures taken to prevent soil compaction and protect the plants?		
2.7	Is prompt removal of litter and unwanted materials maintained in the planting area?		
2.8	Are fixings being prevented from being driven into the plants?		
2.9	Are the plants being intentionally avoided for the purpose of anchoring, winching, or displaying signs?		
2.10	Are all plants consistently maintained free from pests, diseases, or fungal infections?		
2.11	Is there sufficient space provided for the growth and development of plant roots?		
2.12a	Is the exposure of plant roots being prevented?		
2.12h	If not, are broken as retting roots being avoided?		

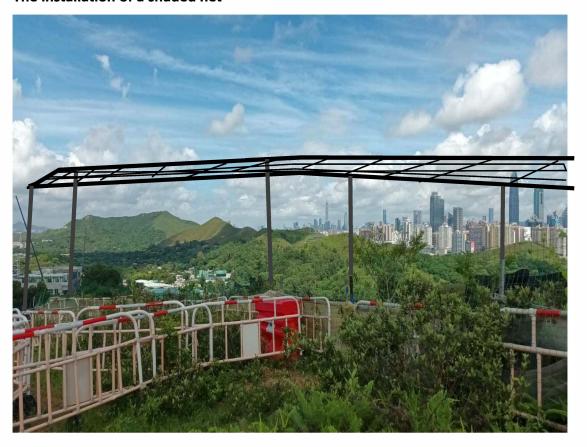
## **Advice/Observations**

- 1) Please refer to the guidelines on soil improvement issued by the Greening, Landscape and Tree Management Section (GLTMS) of the development bureau (2022) to apply to monitoring and maintenance of transplanted flora species.
- 2) Daily watering frequency is needed to keep the soil moist.
- 3) Installation of a shaded net is provided below.
- 4) The wild plants that are growing in undesirable areas should be removed.
- 5) The damaged Black Shade Net should be repaired or replaced with a new one.



IEC	ET	Contractor Representative					
Name: Mr. Law Date	Name: Mr. Chow Date 24-06-2024	Name: Marian Kong Date					

The installation of a shaded net





Remark: Non scale & Conceptual drawing

#### APPENDIX I EVENT ACTION PLANS

# Appendix I:

Table I-1: Event / Action Plan for Air Quality

	ACTION											
EVENT	ET	IEC	PERMIT HOLDER	CONTRACTOR								
ACTION LEVE	L											
1. Exceedance for one sample	1. Identify source, investigatethe causes of exceedance and propose remedial measures;  2. Inform IEC,ER and Contractor;  3. Repeat measurement to confirm finding; and  4. Increase monitoring frequency to daily.	Check monitoring data submitted by ET;      Check Contractor's working method.	1. Notify Contractor.	1. Rectify any unacceptable practice:  2. Amend working methods if appropriate.								
2. Exceedance for two or more consecutive samples	<ol> <li>Identify source;</li> <li>Inform IEC, ER         andContractor;</li> <li>Advise the WKCDA on         theeffectiveness of the         proposed remedial         measure;</li> <li>Repeat         measurements to         confirm findings;</li> <li>Increase         monitoring         frequency to         daily;</li> <li>Discuss with IEC         and Contractor on         remedialactions         required;</li> <li>If exceedance continues,         arrange meeting with         IECand ER; and</li> </ol>	<ol> <li>Check monitoring data submitted by ET;</li> <li>Check Contractor's working method;</li> <li>Discuss with ET and Contractor on possible remedial measures;</li> <li>Advise the ET on the effectiveness of the proposed remedial measures; and</li> <li>Monitor Implementation of remedial measures.</li> </ol>	1. Confirm receipt of notification of failure in writing;  2. Notify Contractor; and 3. Ensure remedial measures properly implemented.	<ol> <li>Submit proposals for remedial to         ER within 3         working days of notification;</li> <li>Implement the agreed proposals; and</li> <li>Amend proposal if appropriate.</li> </ol>								

		ACTION	ſ	
EVENT	ET	IEC	PERMIT HOLDER	CONTRACTOR
	8. If exceedance stops, cease additional monitoring.			
LIMIT LEVEL				
1.Exceedance for one sample	<ol> <li>Identify source,         investigate the causes         of exceedance and         propose remedial         measures;</li> <li>Inform ER, Contractor         and EPD;</li> <li>Repeat measurement to         confirm finding;</li> <li>Increase monitoring         frequency to daily; and</li> <li>Assess effectiveness of         Contractor's remedial         actions and keep IEC,         EPD and the ER         informed of the results.</li> </ol>	<ol> <li>Check monitoring data submitted byET;</li> <li>Check Contractor's working method;</li> <li>Discuss with         ET and Contractor on possible remedial measures;</li> <li>Advise the ER on the effectiveness ofthe proposed remedial measures; and</li> <li>Monitor the implementation of remedial measures.</li> </ol>	1. Confirm receipt ofnotification of failure in writing; 2. Notify Contractor;and 3. Ensure remedial measures properly implemented.	1. Take immediate actionto avoid further exceedance;  2. Submit proposals for remedial actions to IECwithin 3 working days of notification;  3. Implement the agreedproposals; and  4. Amend proposal if appropriate.
2.Exceedance for two or more consecutive samples	<ol> <li>Notify IEC, the ER,         Contractor and EPD;</li> <li>Identify source;</li> <li>Repeat measurement to         confirm findings;</li> <li>Increase monitoring         frequency to daily;</li> <li>Carry out analysis of         Contractor's working         procedures to determine</li> </ol>	1. Check monitoring data submitted byET; 2. Check Contractor's working method; 3. Discuss amongst ER, ET, and Contractor on the potential remedial actions;	1. Confirm receipt ofnotification of failure in writing; 2. Notify Contractor; 3. In consultation with IEC, agree with the Contractor on theremedial measures to be implemented;	1. Take immediate actionto avoid further exceedance;  2. Submit proposals for remedial actions to IECwithin 3 working days of notification;  3. Implement the agreedproposals;

EVENT		ACTION	[	
EVENI	ET	IEC	PERMIT HOLDER	CONTRACTOR
	possible mitigation to	4. Review Contractor's	4. Ensure remedial	4. Resubmit proposals
	be implemented;	remedial actions	measures	if problem still not
	6. Arrange meeting with	whenever necessary to	properly	undercontrol; and
	IEC, and ER to discuss	assuretheir	implemented;	5. Stop the relevant
	the remedial actions to	effectiveness and	and	portion of works as
	be taken;	advise the ER	5. If exceedance	determined by the
	7. Assess effectiveness of	accordingly; and	continues,	ER until the
	Contractor's remedial	5. Monitor	consider what	exceedance is
	actions and keep IEC,	implementation of	portion of the	abated.
	EPD and ER informed	remedial measures.	work is	
	of the results; and		responsible and	
	8. If exceedance stops,		instruct the	
	cease additional		Contractor to	
	monitoring.		stopthat portion	
			of work until	
			the exceedances is	
			abated.	

 $Abbreviations: ET-Environmental\ Team,\ IEC-Independent\ Environmental\ Checker$ 

**Table I-2: Event / Action Plan for Construction Noise** 

EVENT		ACT	TION	
	ET	IEC	PERMIT HOLDER	CONTRACTOR
Action Level	<ol> <li>Notify ER, IEC and Contractor;</li> <li>Carry out investigation;</li> <li>Report the results of investigation to the IEC, ER and Contractor;</li> <li>Discuss with the IEC and Contractor on remedial measures required; and</li> <li>Increase monitoring frequency to check mitigation effectiveness.</li> </ol>	1. Review the monitoring data submitted by the ET;  2. Review the proposed remedial measures by the Contractor and advise ER; and  3. Advise the ER on the effectiveness of the proposed remedial measures.	1. Confirm receipt of notification of failure in writing;  2. Notify Contractor;  3. In consolidation with the IEC, agree with the Contractor on the remedial measure to be implemented: and  4. Supervise the implementation of remedial measure.	1. Submit noise mitigation proposals to IEC and ER; and 2. Implement noise mitigation proposals.
Limit Level	<ol> <li>Inform IEC, ER and Contractor and EPD;</li> <li>Repeat measurements to confirm findings;</li> <li>Increase the monitoring frequency;</li> <li>Identify source and investigate the cause of exceedance;</li> <li>Carry out analysis of Contractor's working procedures;</li> <li>Discuss with the IEC, Contractor and ER on</li> </ol>	1. Discuss amongst the ER, ET, and Contractor on the potential remedial actions; and 2. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly;	1. Confirm receipt of notification of failure in writing;  2. Notify the Contractor;  3. In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented;  4. Supervise the implementation of remedial measures; and  5. If exceedance continues, consider	1. Take immediate action to avoid further exceedance;  2. Submit proposals for remedial actions to the IEC and ER within 3 working days of notification;  3. Implement the agreed proposals;  4. Submit further proposal if problem still not under control; and  5. Stop the relevant portion of works as

EVENT		ACT	TION	
	ET	IEC	PERMIT HOLDER	CONTRACTOR
	remedial measure		stopping the	determined by the ER
	required;		Contractor to	until the exceedance
	7. Assess effectiveness		continue working in	is abated.
	of Contractor's		that portion of work	
	remedial actions and		which causes the	
	keep IEC, EPD and		exceedance until	
	ER informed of the		the exceedance is	
	results; and		abated.	
	8. If exceedance stops,			
	cease additional			
	monitoring.			

 $Abbreviations: ET-Environmental\ Team,\ IEC-Independent\ Environmental\ Checker$ 

Table I-3: Event / Action Plan for Landscape and Visual Mitigation Measures

EVENT		ACT	TION	
	ET	IEC	PERMIT HOLDER	CONTRACTOR
Non-	Identify source. Inform	Check report.	Notify Contractor.	Amend working
conformity on	IEC and ER.	Check Contractor's	Ensure remedial	methods to prevent
one occasion	Discuss remedial actions	working method.	measures are properly	recurrence of
	with IEC, ER and	Discuss with ET and	implemented	nonconformity.
	Contractor.	Contractor on possible		Rectify damage and
	Monitor remedial	remedial measures.		undertake additional
	actions until rectification	Advise ER on		action necessary.
	has been completed.	effectiveness of		
		proposed remedial		
		measures.		
		Check implementation		
		of remedial measures.		
Repeated	Identify source.	Check monitoring	Notify Contractor.	Amend working
Nonconformity	Inform IEC and ER.	report. Check	Ensure remedial	methods to prevent
	Increase monitoring	Contractor's working	measures are properly	recurrence of
	frequency. Discuss	method.	implemented.	nonconformity.
	remedial actions with	Discuss with ET and		Rectify damage and
	IEC, ER and Contractor.	Contractor on possible		undertake additional
	Monitor remedial	remedial measures.		action necessary.
	actions until rectification	Advise ER on		
	has been completed.	effectiveness of		
	If non-conformity stops,	proposed remedial		
	cease additional	measures.		
	monitoring.	Supervise		
		implementation of		
		remedial measures.		

 $Abbreviations: ET-Environmental\ Team,\ IEC-Independent\ Environmental\ Checker$ 

### APPENDIX J SUMMARY OF EXCEEDANCE

## Appendix J: Exceedance Report

### (A) Exceedance Report for Air Quality

Environmental Monitoring	Parameter	No. of non-proje Exceedance	ct related	No. of Exceeda the Construction this Contract	Exceedance	
		Action Level	Limit Level	Action Level		recorded
Air Quality	1-hr TSP	0	0	0	0	0

### (B) Exceedance Report for Construction Noise

Environmental Monitoring	Parameter	No. of non-proje Exceedance	ct related	No. of Exceeda the Construction this Contract	Exceedance	
		Action Level	Limit Level	Action Level	Limit Level	recorded
Noise	Leq(30 min.) dB(A)	0	0	0	0	0

APPENDIX K ENVIRONMENTAL MITIGATION IMPLEMENTATION SCHEDULE (EMIS)

EIA	EM&A	Recommended Mitigation Measures	Objectives of the Recommended	Implementation	Location / Duration of		lementa Stages		Relevant Legislation &	Implementation Status
Ref.	Ref.		Measure & Main Concerns to address	Agent	the measure	Des	С	0	Guidelines	
Air Qu	ality Impa	ct Construction Phase								
3.9.1	2.2	Dust Control Measures  To achieve compliance with the FSP, RSP and TSP criteria during the construction phase, good practices for dust control should be implemented to reduce dust impacts. The dust control measures are detailed as follows:	Construction Dust	Contractor	Project construction site / Duration of the construction phase / Prior to commencement of operation		<b>✓</b>		EIA Recommendation and Air Pollution Control (Construction Dust) Regulation	
		Covering 80% of stockpiling area by impervious sheets and spraying all dusty material with water immediately prior to any loading transfer operations to keep the dusty materials wet during material handling at the stockpile areas								Y
		Disturbed Parts of the Roads  ■ Main temporary access points should bepaved with concrete, bituminous hardcore materials or metal plates and be kept clear of dusty materials; or  ■ Unpaved parts of the road should be sprayed with water or a dust suppression chemical so as to keep the entire road surface wet.								Y
		Wheel washing  Vehicle wheel washing facilities should be provided at each construction site exit. Immediately before leaving the construction site, every vehicle should be washed to remove any dusty materials from its body and wheels.								Y
		Use of vehicles  ■ The speed of the trucks within the site should be controlled to about 10 km/hour in order to reduce adverse dust impacts and secure the safe movement around the site.  ■ Immediately before leaving the construction site, every vehicle should be washed to remove any dusty materials from its body and wheels.								Y
		Site hoarding  Where a site boundary adjoins a road, street, service lane or other area accessible to the public, hoarding of not less than 2.4m high from ground level should be provided along the entire length of that portion of the site boundary except for a site entrance or exit								Y

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measure & Main	Implementation Agent	Location / Duration of the measure		ementa Stages		Relevant Legislation & Guidelines	Implementation Status
			Concerns to address			Des	C	0	Guidennes	
Noise I	mpact Cor	nstruction Phase								
4.4.6	3.2	Good Site Practice  Good Site practice and noise management can significantly reduce the impact of construction site activities on nearby NSRs. The following package of measures should be followed during each phase of construction:	Maintain good site practice to minimise / avoid construction noise impact	Contractor	Within the Project site / During construction phase / Prior to commencement of operation.		<b>√</b>		EIAO and Noise Control Ordinance	
		only well-maintained plant to be operated on- site and plant should be serviced regularly during the construction works;								Y
		material stockpiles and other structures to be effectively utilised, where practicable, to screen noise from on-site construction activities.								Y
		Adoption of QPME  QPME should be adopted as far as applicable.								Y
		Use of Noise Enclosure/ Acoustic Shed Noise enclosure or acoustic shed should be used to cover stationary PME such as air compressor and generator.								Y
		Use of Noise Insulating Fabric Noise insulating fabric can also be adopted for certain PME (e.g. pilling machine etc.).								Y

EIA	EM&A		Objectives of the Recommended	Implementation	Location / Duration of	lmp	lementa Stages		Relevant	Implementation
Ref.	Ref.	Recommended Mitigation Measures	Measure & Main Concerns to address	Agent	the measure	Des	C	O	Legislation & Guidelines	Status
Water C	Quality Imp	oact Construction Phase								
5.6.1.1	4.2	General Construction Activities  The following measures should be implemented:  -	Maintain good site practices to avoid pollution of water courses	Contractor	Within the Project site / During construction phase		<b>√</b>		Water Pollution Control Ordinance (Cap. 358), ProPECC Note PN 1/94	
5.6.1.2	4.2	<ul> <li>Construction waste, debris and refuse generated on-site should be stored or contained appropriately to prevent them entering nearby watercourses or blocking stormwater drains.</li> <li>Regular off-site removal of these materials should be maintained to minimise the volume of waste present on the construction site at any one time.</li> </ul>								Y
		Construction Site Runoff								
		The site practices outlined in ProPECC Note PN 1/94 should be followed as far as practicable in order to minimise surface runoff and the chance of erosion. The following measures are recommended:								
		Temporary site drainage facilities are to be designed and implemented by the Contractor prior to commencement of construction to convey surface runoff to storm drains applying adequately designed silt/ sand removal traps and sediment basins.								
		Runoff into the excavation areas during rainstorm events shall be minimised as far as practicable. Any wastewater pumped out of the excavation areas shall be treated to remove suspended solids prior to discharge.								Y
		Open stockpiles of material should be covered on site with waterproof layers such as tarpaulin to reduce the potential for sediment laden runoff entering the drainage								
		<ul> <li>The wheels of all vehicles and plant should be cleaned before leaving the works areas to remove sediment, soil and debris from the tracks. The washwater should be treated to remove any suspended sediment.</li> <li>Manholes (including those constructed as part of the Project) should be adequately covered and temporarily sealed at all times to prevent silt, construction materials or</li> </ul>								

5.6.1.3	4.2	debris from entering the drainage system, and to prevent storm runoff from entering foul sewers. The discharge of surface runoff into foul sewers should be prevented so as not to overload the sewerage system.  Discharges should be collected by the temporary drainage system installed by the Contractor and treated on-site to remove sediment prior to discharge to the off-site drainage areas. The Contractor is required to obtain a discharge licence from EPD under the WPCO for all discharges from site with all discharges meeting the water quality requirements of the Technical Memorandum on Standards for Effluents Discharged into Drainage and Sewerage Systems, Inland and Coastal Waters (TM-DSS)  Accidental Spillage of Chemicals In accordance with the Waste Disposal (Chemical Waste) (General) Regulation (Cap 354C), the following measures should be implemented:  The labelling and storage of chemicals should be in accordance with the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes and maintained at all times by the Contractor.	Prevent accidental discharge of chemicals into the surrounding environment	Contractor	Within the Project site / During construction phase	✓	Code of Practice on the Packaging Labelling and Storage of Chemical Wastes; Waste Disposal (Chemical Waste) (General) Regulation (Cap 354C)	Y
		<ul> <li>Oils and fuels should only be stored in designated areas which have appropriate pollution prevention control facilities such as oil and grease traps.</li> </ul>					33.3,	
5.6.1.4	4.2	Sewage from Construction Workforce Portable toilets should be available throughout the construction phase and regularly maintained, collected and disposed by a licensed wastecollector to a public sewage treatment works for suitable treatment.	Prevent discharge of sewage into the surrounding environment	Contractor	Within the Project site / During construction phase	<b>√</b>	Water Pollution Control Ordinance (Cap. 358), ProPECC Note PN 1/94	Y

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measure & Main Concerns to address	Implementation Agent	Location / Duration of the measure	Imp Des	lementa Stages¹ C	Relevant Legislation & Guidelines	Implementation Status
Ecologi	cal Impact								
9.7.1	8.3	Temporary Protective Fence for Flora Species of Conservation Interest  During construction phase, erection and maintenance of a temporary protective fence enclosing the flora species of conservation interest identified under the detailed vegetation survey is recommended.  Monthly monitoring of any other flora species of conservation interest identified in the detailed vegetation survey should be conducted during the construction phase.	To avoid potential impact on flora species of conservation interest from construction activities such as materials storage;  To make sure that the flora species of conservation interest are not affected by the construction activities of the Project	Contractor	Project construction site / Throughout construction stage / Until completion of all construction activities		<b>✓</b>	EIAO-TM	Y
Landsc	ape and V	isual Impacts Construction Phase							
Table 10.11	Table 9.1	CM01: Trees / woodland within the Project Site which are unaffected by the works shall be protected and preserved during the detailed design stage and construction phase. The tree preservation proposals shall be coordinated with the layout and design of the engineering and architectural works at detailed design stage for further retention of individual trees. The preservation of existing tree shall provide instant greening and screening effect for proposed works. Tree protection works will be undertaken in accordance with DEVB TC(W) 7/2015 on "Tree Preservation" and tree risk assessment in accordance with "Guidelines for Tree Risk Assessment and Management Arrangement by DEVB.	Preserve and protect existing trees	Contractor	Project area / During design stage / construction phase / Establishment Period			EIAO-TM; Protection of Endangered Species of Animals and Plants Ordinance (Cap 586); DEVB TC(W) No. 6/2015 Maintenance of Vegetation and Hard Landscape Features; ETWB TCW No. 29/2004 Registration of Old and Valuable Trees, and Guidelines for their Preservation; DEVB TC(W) No. 07/2015 -Tree Preservation; ETWB (2/2007) - General Guidelines on Tree Pruning; GLTMS (12/2013)	Y

						-Guidelines for Tree Risk Assessment and Management Arrangement on an Area Basis and on a Tree Basis	
--	--	--	--	--	--	---	--

Note 1: Des = Design; C = Construction; O = Operation

#### APPENDIX L WASTE GENERATION IN THE REPORTING MONTH

Name of Department: ArchSD

## Monthly Summary Waste Flow Table for <u>2024</u> (year)

Project: Design and Construction of Kong Nga Po Police Training Facilities Contract No.: SS K509

Tioject.	5 N S		uantities of Inc		_	d Monthly		Actu	al Quantities	of C&D Wast	es Generated N	Monthly
Month	Total Quantity Generated	Hard Rock and Large Broken Concrete	Bituminous Material	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ cardboard packaging	Plastics (see Note 3)	Chemical Waste	Others, e.g. general refuse
	$(in '000m^3)$	$(in '000m^3)$	$(in '000m^3)$	$(in '000m^3)$	$(in '000m^3)$	(in '000m <sup>3</sup> )	$(in '000m^3)$	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	$(in '000 m^3)$
Cumulative in 2023	16.796	0.000	0.000	0.000	0.000	16.796	0.000	0.000	0.041	0.054	0.000	0.657
Jan	3.263	0.000	0.000	0.000	0.000	3.263	0.000	0.000	0.000	0.000	0.000	0.117
Feb	0.423	0.000	0.000	0.000	0.208	0.215	0.000	0.003	0.225	0.009	0.000	0.111
Mar	4.882	0.000	0.000	0.000	1.216	3.666	0.000	12.066	0.000	0.384	0.000	0.195
Apr	1.859	0.000	0.000	0.000	0.013	1.846	0.000	0.000	0.000	2.716	0.000	0.260
May	7.612	0.000	0.000	0.000	6.234	1.378	0.000	0.005	0.223	0.513	0.000	0.286
Jun	1.469	0.000	0.000	0.000	0.000	1.469	0.000	0.000	0.000	0.036	0.000	0.312
Sub-total	19.507	0.000	0.000	0.000	7.670	11.837	0.000	12.074	0.448	3.658	0.000	1.281
Jul												
Aug												
Sep												
Oct												
Nov												
Dec												
Total	36.303	0.000	0.000	0.000	7.670	28.633	0.000	12.074	0.489	3.712	0.000	1.938

Notes:

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

<sup>\*</sup>Data of June 2024 released by EPD only up to 25/6/2024 as of 5/7/24

					I		Wests	Waialat	Waialet	I
	Doto of						Waste	Weight-	Weight-	Not
	Date of	<b>7</b> 7 - 1 - 1 -	A				depth	in	out	Net
	transactio	Vehicle	Account	Cl.'t N.	TT' '	T	(meter)	(tonne)	(tonne)	weight
E'1'2	n *====	No.	No.	Chit No.	Time-in	Time-out	廢物深	入閘重	出閘重	(tonne)
Facility	交易日	車牌號	帳戶編	入帳票	進入時	離開時	度	量	量	淨重量
設施	期	碼 740*45	號	編號	間 16:24	間 17:01	(米)	(公噸)	(公噸)	(公噸)
NENT	01/06/24		7046289	28370391		17:01	0.93	19.39	16.25	3.14
NENT	03/06/24		7046289	28370267 28370269		12:21	1.09	17.63	15.82	1.81
NENT NENT	03/06/24		7046289			13:14	1.16	19.7	16.09	3.61
	04/06/24		7046289	28370270 28370271		10:46 12:50	0.99	22.67 25.93	19.98 20.19	2.69 5.74
NENT NENT	04/06/24 05/06/24		7046289 7046289	28370271		09:54	0.95 0.89	23.1	19.66	3.44
NENT				28370272		13:10		24.33	19.65	4.68
	05/06/24		7046289	28370273		14:14	1.08	19.37	17.07	2.3
NENT NENT	06/06/24 07/06/24		7046289 7046289	28370274		11:45	0.95	16.77	14.86	1.91
NENT	08/06/24		7046289	28370392		08:39	1.31	17.74	14.87	2.87
NENT	08/06/24		7046289	28370390		12:55	1.11	16.93	14.83	2.1
NENT	11/06/24		7046289	28370275		08:28	0.81	18.96	16.16	2.1
NENT	11/06/24		7046289	28370405		13:30	1.07	17.85	15.64	2.8
	11/06/24			28370276		15:34	1.19	17.58	15.78	1.8
NENT NENT	12/06/24		7046289 7046289	28370277		08:41	0.75	19.73	14.84	4.89
NENT	12/06/24		7046289	28370278		10:30	1.23	19.73	14.82	4.52
NENT	12/06/24		7046289	28370279		11:38	0.94	16.97	15.68	1.29
NENT	13/06/24		7046289	28370280		09:46	0.9	18.32	16.18	2.14
NENT	13/06/24		7046289	28370070		10:24	1.16	19.03	16.04	2.99
NENT	13/06/24		7046289	28370282		14:13	1.02	19.79	16.16	3.63
NENT	14/06/24		7046289	28370283		09:25	1.07	18.89	16.83	2.06
NENT	14/06/24		7046289	28370203		11:28	1.17	21.72	16.76	4.96
NENT	14/06/24		7046289	28370678		14:44	1.12	19.17	16.75	2.42
NENT	14/06/24		7046289	28370284		16:28	0.9	18.36	16.73	1.63
NENT	15/06/24		7046289	28370285		08:45	0.71	16.54	14.87	1.67
NENT	15/06/24		7046289	28370683		10:37	0.66	18.77	14.86	3.91
NENT	15/06/24			28370286		15:29	0.66	16.18	14.85	1.33
NENT	17/06/24		7046289	28370688		10:12	0.9	18.71	16.67	2.04
NENT	17/06/24		7046289	28370690		11:58	1.18	19.18	16.66	2.52
NENT	17/06/24		7046289	28370692		13:40	1.32	19.47	16.65	2.82
NENT	18/06/24		7046289	26790046		08:37	0.76	21.72	20.07	1.65
NENT	18/06/24		7046289	28370808		12:30	0.8	22.49	20.04	2.45
NENT	18/06/24		7046289	28370809		17:57	1.01	20.65	16.1	4.55
NENT	19/06/24		7046289	28370810		08:30	1.15	23.39	20.15	3.24
NENT	19/06/24		7046289	28370811		10:31	0.96	22.5	20.14	2.36
NENT	19/06/24		7046289	28370717		18:03	1.32	19.11	16.76	2.35
NENT	20/06/24		7046289	28370287		11:34	1.4	17.08	14.85	2.23
NENT	20/06/24		7046289	28370724		13:18	1.33	18.2	14.83	3.37
NENT	21/06/24		7046289	28370812		08:47	1.06	17.43	15.69	1.74
NENT	21/06/24		7046289	28370813		11:13	1.13	22.28	20.04	2.24
NENT	21/06/24		7046289	28370830		13:17	1.38	17.35	14.81	2.54
NENT	21/06/24		7046289	28370814		17:52	1.15	19.26	16.69	2.57
NENT	22/06/24		7046289	28370815		14:53	1.02	22.47	20.04	2.43
NENT	22/06/24		7046289	28370816	16:05	16:32	0.87	23.03	20.21	2.82
NENT	24/06/24	SB7*8	7046289	28370817	10:57	11:28	1.2	21.11	18.22	2.89
NENT	24/06/24	SB7*8	7046289	28370818	14:22	14:47	0.81	20.35	18.2	2.15
NENT	25/06/24		7046289	28370819	14:43	15:11	0.99	20.66	18.27	2.39
NENT	25/06/24	SB7*8	7046289	28370820	16:23	16:51	0.86	20.17	18.26	1.91

TM20 FD 04/06/24	V40*25	7046200	12027055014	10.27	10.24	0	27.55	16.42	24.42
TM38FB 04/06/24	1	7046289	28370558 1		10:34	0	37.55	16.42	21.13
TM38FB 04/06/24	1	7046289	28370559 1		10:58	0	29.28	14.11	15.17
TM38FB 05/06/24	1	7046289	28370560 1		11:15	0	29.28	14.1	15.18
TM38FB 05/06/24		7046289	28370561 1		12:05	0	29.21	14.38	14.83
TM38FB 05/06/24	1	7046289	28370562 1		12:14	0	37.76	16.05	21.71
TM38FB 05/06/24	1	7046289	28370565 1		12:58	0	29.71	13.93	15.78
TM38FB 05/06/24	1	7046289	28370563 1		13:00	0	37.48	16.39	21.09
TM38FB 05/06/24	1	7046289	28370564 1		13:02	0	29.97	13.94	16.03
TM38FB 05/06/24	1	7046289	28370566 1		16:07	0	28.87	14.12	14.75
TM38FB 05/06/24	1	7046289	28370568 1		16:23	0	29.24	14.33	14.91
TM38FB 05/06/24		7046289	28370567 1		16:25	0	29.09	13.88	15.21
TM38FB 05/06/24		7046289	28370569 1		16:51	0	37.06	16.06	21
TM38FB 06/06/24	1	7046289	28370570 1		10:18	0	37.03	16.62	20.41
TM38FB 06/06/24	1	7046289	28370571 1		10:13	0	29.27	14.45	14.82
TM38FB 06/06/24		7046289	28370572 1		10:41	0	37.51	16.14	21.37
TM38FB 06/06/24	1	7046289	28370573 1		12:18	0	28.75	14.14	14.61
TM38FB 06/06/24		7046289	28370574 1		14:14	0	36.61	16.64	19.97
TM38FB 06/06/24	1	7046289	28370575 1		14:20	0	37.69	16.22	21.47
TM38FB 06/06/24	1	7046289	28370576 1		14:23	0	29	14.39	14.61
TM38FB 06/06/24	1	7046289	28370577 1		15:55	0	28.95	14.13	14.82
TM38FB 06/06/24		7046289	28370578 1		16:21	0	29.39	13.86	15.53
TM38FB 06/06/24		7046289	28370579 1		17:09	0	36.71	16.02	20.69
TM38FB 06/06/24		7046289	28370580 1		17:17	0	36.87	15.68	21.19
TM38FB 06/06/24	VX4*45	7046289	28370581 1	17:20	17:28	0	29.26	14.33	14.93
TM38FB 07/06/24	YA8*35	7046289	28370393 1		12:07	0	37.76	15.99	21.77
TM38FB 07/06/24	JA8*30	7046289	28370394 1	L5:53	16:09	0	29	14.01	14.99
TM38FB 07/06/24	YA8*35	7046289	28370395 1		17:16	0	37.65	15.94	21.71
TM38FB 08/06/24	VX4*45	7046289	28370397 1	10:32	10:39	0	28.61	14.44	14.17
TM38FB 08/06/24	SS8*08	7046289	28370398 1	10:38	10:43	0	29.48	13.95	15.53
TM38FB 08/06/24	JA8*30	7046289	28370399 1	l1:14	11:19	0	28.46	14.14	14.32
TM38FB 08/06/24	XP9*07	7046289	28370401 1	l3:55	14:00	0	29.27	14.58	14.69
TM38FB 08/06/24		7046289	28370400 1		14:03	0	28.44	13.8	14.64
TM38FB 08/06/24	YA8*35	7046289	28370582 1	l4:11	14:19	0	37.86	15.95	21.91
TM38FB 08/06/24	VX4*45	7046289	28370583 1	l4:14	14:20	0	29.12	14.51	14.61
TM38FB 08/06/24	SS8*08	7046289	28370402 1	15:52	16:00	0	28.82	13.85	14.97
TM38FB 08/06/24	YA8*35	7046289	28370403 1	L6:07	16:17	0	37.37	15.91	21.46
TM38FB 08/06/24	XP9*07	7046289	28370404 1	L7:37	17:41	0	29.37	14.65	14.72
TM38FB 11/06/24	VX4*45	7046289	28370406 1	10:21	10:29	0	29.53	14.1	15.43
TM38FB 11/06/24	YA8*35	7046289	28370407 1	11:21	11:29	0	37.68	16.26	21.42
TM38FB 11/06/24	JA8*30	7046289	28370648 1	11:46	11:54	0	28.12	14.07	14.05
TM38FB 11/06/24	SM1*9	7046289	28370649 1	L6:1 <del>4</del>	16:28	0	36.24	15.68	20.56
TM38FB 11/06/24	XD6*39	7046289	28370650 1	16:46	16:58	0	37.29	16.03	21.26
TM38FB 11/06/24	SL4*82	7046289	28370651 1	17:06	17:18	0	35.16	15.64	19.52
TM38FB 11/06/24	YA8*35	7046289	28370652 1	17:13	17:19	0	37.19	16.14	21.05
TM38FB 11/06/24	GJ7*6	7046289	28370653 1	17:32	17:41	0	36.77	15.64	21.13
TM38FB 12/06/24	JA8*30	7046289	28370584	9:53	09:59	0	29.33	14.13	15.2
TM38FB 12/06/24	1	7046289	28370585	9:58	10:05	0	28.58	14.05	14.53
TM38FB 12/06/24	1	7046289	28370654 1	10:33	10:39	0	37.8	16.24	21.56
TM38FB 12/06/24	VX4*45	7046289	28370669 1	L4:09	14:15	0	29.5	14	15.5
TM38FB 12/06/24	JA8*30	7046289	28370668 1	l4:11	14:18	0	28.35	14.1	14.25
TM38FB 12/06/24	SL4*82	7046289	28370655 1	L4:39	14:52	0	36.6	15.65	20.95
TM38FB 12/06/24	1	7046289	28370656 1		15:22	0	37.28	16.01	21.27
TM38FB 12/06/24	1	7046289	28370657 1		16:22	0	36.87	15.68	21.19
TM38FB 12/06/24	1	7046289	28370658 1		17:07	0	36.35	16.05	20.3
									-

		l	l	l		I	I_		1	I 1
	12/06/24		7046289	28370587		17:34	0	36.21	16.25	19.96
	12/06/24		7046289	28370586		17:32	0	36.58	16.7	19.88
	12/06/24		7046289	28370589		17:37	0	28.96	13.94	15.02
-	12/06/24		7046289	28370588		18:05	0	35.35	15.84	19.51
-	12/06/24		7046289	28370590		18:00	0	37.05	15.6	21.45
	12/06/24		7046289	28370592		17:54	0	37.23	16.48	20.75
			7046289	28370593		17:49	0	37.88	15.96	21.92
	12/06/24		7046289	28370594		17:55	0	37.78	16.58	21.2
	12/06/24		7046289	28370591		18:17	0	37.16	15.98	21.18
	13/06/24		7046289 7046289	28370659 28370660		09:29 10:29	0	37.32	16.35 13.91	20.97 14.92
	13/06/24 13/06/24		7046289	28370661		10:29	0	28.83 28.25	14.05	14.92
		i e		28370662			0			21.25
	13/06/24 13/06/24		7046289 7046289	28370663		10:47 10:57	0	37.32 29.14	16.07 14.06	15.08
	13/06/24		7046289	28370664		10:56	0	36.86	15.78	21.08
	13/06/24		7046289	28370665		11:45	0	36.78	15.73	21.05
	13/06/24		7046289	28370603		11:31	0	28.97	14.18	14.79
-	13/06/24		7046289	28370671		11:45	0	36.61	15.68	20.93
	13/06/24		7046289	28370667		11:49	0	36.09	16.67	19.42
	13/06/24		7046289	28370595		12:55	0	37.26	16.32	20.94
	13/06/24		7046289	28370673		14:32	0	37.21	15.72	21.49
-	13/06/24		7046289	28370672		15:03	0	37.61	16.2	21.41
	13/06/24		7046289	28370674		16:15	0	28.51	13.96	14.55
	13/06/24		7046289	28370596		17:10	0	29.17	13.99	15.18
	13/06/24		7046289	28370597		17:26	0	36.95	16.23	20.72
	13/06/24		7046289	28370598		17:31	0	37.14	15.69	21.45
	13/06/24	i e	7046289	28370599		17:33	0	37.56	16.11	21.45
	13/06/24		7046289	28370601		18:09	0	36.21	16.43	19.78
	13/06/24		7046289	28370600		18:32	0	37.57	15.6	21.97
	13/06/24		7046289	28370603	17:49	18:05	0	37.25	16.05	21.2
TM38FB	13/06/24	XT2*38	7046289	28370602	17:55	18:02	0	36.61	15.76	20.85
TM38FB	13/06/24	GJ7*6	7046289	28370604	18:02	18:11	0	36.62	15.64	20.98
TM38FB	14/06/24	XD8*04	7046289	28370675	09:55	10:06	0	36.5	16.59	19.91
TM38FB	14/06/24	UD2*7	7046289	28370676	10:19	10:24	0	31.2	16.31	14.89
TM38FB	14/06/24	VX4*45	7046289	28370679	16:02	16:08	0	28.62	13.99	14.63
TM38FB	14/06/24	JA8*30	7046289	28370680	16:49	16:55	0	28.64	14.04	14.6
TM38FB	14/06/24	VX4*45	7046289	28370681	17:48	17:55	0	28.8	13.96	14.84
	15/06/24		7046289	28370682	10:22	10:27	0	28.99	14.12	14.87
	15/06/24		7046289	28370684		10:45	0	37.48	16.3	21.18
	15/06/24		7046289	28370685		16:14	0	36.99	16.23	20.76
	17/06/24		7046289	28370605		09:16	0	37.91	16.23	21.68
	17/06/24		7046289	28370606		09:19	0	37.21	16.13	21.08
	17/06/24		7046289	28370686		09:21	0	37.25	16.67	20.58
	17/06/24		7046289	28370607		09:23	0	37.18	15.92	21.26
	17/06/24		7046289	28370608		09:22	0	36.95	15.9	21.05
	17/06/24		7046289	28370609		09:46	0	37.25	15.97	21.28
	17/06/24		7046289	28370687		09:49	0	37.59	15.75	21.84
	17/06/24		7046289	28370611		10:11	0	29.32	13.82	15.5
	17/06/24		7046289	28370610		10:15	0	36.27	16.55	19.72
	17/06/24		7046289	28370612		10:22	0	37.28	16.71	20.57
	17/06/24		7046289	28370613 28370614		10:23	0	29.69	14.05	15.64
	17/06/24 17/06/24		7046289 7046289	28370614		10:31 11:01	0	37.45 37.39	16.71 15.94	20.74 21.45
	17/06/24	i e	7046289	28370615		11:01	0	37.5	16.13	21.45
מזסכויוו	1//00/24	VD0.33	/U <del>1</del> 0209	702/0010	10.33	11.02	Įυ	۵/.۵	10.13	21.3/

TM20 FD	17/06/24	VC1*40	7046200	20270600	11.40	11.52	١٥	27.47	16 10	21.20
	17/06/24		7046289	28370689		11:53	0	37.47	16.19	21.28
	17/06/24		7046289	28370617		12:07	0	37.68	16.05	21.63
	17/06/24 17/06/24		7046289	28370619 28370621		12:13	0	37.4	16.28	21.12
			7046289			12:24 12:35	0	37.55	15.91	21.64
	17/06/24		7046289	28370691				37.05	16.33	
	17/06/24		7046289	28370622		12:34	0	36.28	15.93	20.35
	17/06/24		7046289	28370618		12:40	0	37.27	16.09	21.18
	17/06/24		7046289	28370620		12:48	0	37.2	16.58	20.62
	17/06/24		7046289	28370623		13:21	0	36.26	16.51	19.75
	17/06/24		7046289	28370624 28370627		13:55 14:00	0	37.13	15.95 16.2	21.18 20.97
	17/06/24 17/06/24		7046289 7046289	28370627		14:11	0	37.17 37.82	16.62	20.97
	17/06/24		7046289	28370625		14:28	0	35.73	18.14	17.59
	17/06/24		7046289	28370693		14:41		36.92	16.65	20.27
	17/06/24		7046289	28370626 28370694		14:29	0	37.37 37.45	16.23	21.14
	17/06/24		7046289			14:35	0		16.27	21.18
	17/06/24		7046289	28370629		14:58	0	36.87	15.84	21.03
	17/06/24		7046289	28370695		15:15		36.82	15.69	21.13
	17/06/24		7046289	28370630		15:21	0	36.65	15.64	21.01
	17/06/24		7046289	28370631		15:21	0	37.67	16.03	21.64
	17/06/24		7046289	28370632		15:30	0	37.06	16.54	20.52
	17/06/24		7046289	28370633		16:25	0	29.29	14.16	15.13
	17/06/24		7046289	28370634		16:41	0	36.11	16.42	19.69
	17/06/24		7046289	28370635		16:41	0	37.45	16.23	21.22
	17/06/24		7046289	28370636		16:44	0	28.78	13.91	14.87
	17/06/24		7046289	28370637		16:52	0	37.28	16.01	21.27
	17/06/24		7046289	28370638		17:03	0	36.96	16.2	20.76
	17/06/24		7046289	28370639		17:07	0	37.25	16.5	20.75
	17/06/24		7046289	28370642		17:17	0	37.41	16.14	21.27
	17/06/24		7046289	28370640		17:27	0	36.73	15.98	20.75
	17/06/24		7046289	28370641		17:21	0	36.46	15.82	20.64
	17/06/24			28370643		17:50	0	37.23	15.8 16.83	21.43
	17/06/24			28370644		17:48				19.35
	18/06/24			28370696		09:46	0	28.83	14.2	14.63
	18/06/24		7046289	28370645		10:13	0	37.06	15.71	21.35
	18/06/24			28370697		10:47	0	37.37	16.29	21.08
	18/06/24		7046289	28370698		11:05	0	36.41	16.54	19.87
	18/06/24 18/06/24		7046289 7046289	28370699 28370700		12:19	0	37.34	16.31 16.5	21.03
			7046289	28370700		14:11 14:21	0	36.66 37.32	16.06	20.16 21.26
	18/06/24			28370701			0			
	18/06/24 18/06/24		7046289	28370702		14:38 16:20	0	29.02 28.93	14.14 13.96	14.88
			7046289 7046289	28370703			0	28.93 36.8		14.97
	18/06/24 18/06/24		7046289	28370704		17:21 17:24	0	36.8	16.41 16.04	20.39 21.19
	18/06/24		7046289	28370705		17:44	0	37.23	15.73	21.19
				28370706			0		15.73	
	19/06/24		7046289 7046289	28370707		10:05 10:00	0	37.01 37.1	15.71	21.1 21.39
	19/06/24						0	36.99	15.71	
	19/06/24 19/06/24		7046289	28370708 28370710		10:04	0	36.99		21.26
			7046289	28370710		10:05 10:14	0	37.02	16.35	20.67 20.92
	19/06/24		7046289 7046289			10:14	0	37.03	16.11 16.52	20.92
	19/06/24			28370646			0			
	19/06/24		7046289	28370711		10:26		28.49	14.13	14.36
	19/06/24		7046289	28370728		10:54	0	37.15	16.19	20.96
114120LR	19/06/24	1A0~35	7046289	28370712	17:71	12:27	0	36.95	16.15	20.8

TM20 FD 10/06/24	DD1*12	7046200	20270720	12.44	12.50	0	27.27	1 - 01	21.46
TM38FB 19/06/24		7046289	28370730 1		12:50	0	37.27	15.81	21.46
TM38FB 19/06/24		7046289	28370729 1		13:38	0	37.59	16.55	21.04
TM38FB 19/06/24		7046289	28370731 1		13:36	0	37.21	15.65	21.56
TM38FB 19/06/24		7046289	28370732 1		13:38	0		15.65	21.59
TM38FB 19/06/24		7046289	28370734 1		14:00		37.13	16.56	20.57
TM38FB 19/06/24		7046289	28370733 1		14:09	0		14.2	15.83
TM38FB 19/06/24		7046289	28370735 1		14:21	0		15.75	21.12
TM38FB 19/06/24		7046289	28370736 1		14:21	0	37.3	16.05	21.25
TM38FB 19/06/24		7046289	28370309 1		14:55	0	37	16.12	20.88
TM38FB 19/06/24		7046289	28370308 1		15:00	0		16.34	21.4
TM38FB 19/06/24		7046289	28370310 1		15:24	0	37.07	16.14	20.93
TM38FB 19/06/24		7046289	28370713 1		15:41	0		15.78	21.39
TM38FB 19/06/24		7046289	28370714 1		15:51	0	29.11	14.17	14.94
TM38FB 19/06/24		7046289	28370715 1		17:08	0		15.7	22.09
TM38FB 19/06/24		7046289	28370716 1		17:13	0	37.27	15.99	21.28
TM38FB 19/06/24		7046289	28370737 1		17:43	0	37.52	16.28	21.24
TM38FB 19/06/24		7046289	28370738 1		17:58	0	37.18	16.46	20.72
TM38FB 19/06/24		7046289	28370739 1		17:58	0	36.8	15.58	21.22
TM38FB 19/06/24		7046289	28370741 1		18:12	0	37.65	16.45	21.2
TM38FB 19/06/24		7046289	28370740 1		18:17	0	28.4	14.14	14.26
TM38FB 19/06/24		7046289	28370742 1		18:28	0	37.37	15.58	21.79
TM38FB 20/06/24		7046289	28370718 (		09:30	0	28.74	14.11	14.63
TM38FB 20/06/24		7046289	28370719 1		10:26	0	36.81	16.41	20.4
TM38FB 20/06/24		7046289	28370720 1		10:28	0	28.98	13.89	15.09
TM38FB 20/06/24		7046289	28370721 1		10:49	0	37.11	16.24	20.87
TM38FB 20/06/24		7046289	28370722 1		11:16	0	37.04	16.06	20.98
TM38FB 20/06/24		7046289	28370723 1		12:39	0	37.24	16.19	21.05
TM38FB 20/06/24		7046289	28370725 1		14:50	0	28.72	14.04	14.68
TM38FB 20/06/24		7046289	28370743 1		17:08	0	37.4	16.26	21.14
TM38FB 20/06/24		7046289	28370744 1		17:25	0	37.21	16.14	21.07
TM38FB 21/06/24		7046289	28370745 (		09:21	0		15.74	21.08
TM38FB 21/06/24		7046289	28370726 (		09:56	0		16.24	20.86
TM38FB 21/06/24			28370727 1		12:03				20.83
TM38FB 21/06/24	SM1*9	7046289	28370828 1	12:07	12:13	0	36.96	15.73	21.23
TM38FB 21/06/24		7046289	28370829 1		12:21	0	37.06	15.81	21.25
TM38FB 21/06/24		7046289	28370831		15:02	0	37.11	15.76	21.35
TM38FB 21/06/24		7046289	28370832 1		15:30	0	36.65	15.62	21.03
TM38FB 21/06/24		7046289	28370833 1		16:39	0	36.84	16.18	20.66
TM38FB 21/06/24		7046289	28370834 1		16:45	0	37.16	15.99	21.17
TM38FB 21/06/24		7046289	28370835 1		17:05	0	36.97	15.71	21.26
TM38FB 22/06/24		7046289	28370746		10:40	0	29.11	14.04	15.07
TM38FB 22/06/24		7046289	28370747 1		11:23	0	36.89	15.83	21.06
TM38FB 22/06/24		7046289	28370836 1		11:48	0	28.97	14.09	14.88
TM38FB 22/06/24		7046289	28370748 1		14:41	0	28.81	13.95	14.86
TM38FB 22/06/24		7046289	28370749 1		15:17	0	37.07	16.46	20.61
TM38FB 22/06/24		7046289	28370750 1		15:27	0	37	15.75	21.25
TM38FB 22/06/24		7046289	28370751		15:46	0	36.94	15.66	21.28
TM38FB 22/06/24		7046289	28370752		16:15	0	37.73	15.71	22.02
TM38FB 22/06/24		7046289	28370753 1		16:50	0	28.7	14.03	14.67
TM38FB 22/06/24		7046289	28370754		17:19	0	28.99	13.9	15.09
TM38FB 24/06/24	YA8*35	7046289	28370837 1	12:22	12:29	0	37.39	15.81	21.58
TM38FB 24/06/24	SM1*9	7046289	28370838 1	15:20	15:29	0	36.87	16.21	20.66
TM38FB 24/06/24	JA8*30	7046289	28370839		16:28	0	29.06	14.14	14.92
TM38FB 25/06/24	JA8*30	7046289	28370840 (	09:40	09:47	0	29.54	14.17	15.37

TM38FB	25/06/24	VX4*45	7046289	28370841	11:11	11:19	0	28.4	13.93	14.47
TM38FB	25/06/24	YA8*35	7046289	28370755	11:43	11:51	0	37.34	15.8	21.54
TM38FB	25/06/24	JA8*30	7046289	28370842	12:15	12:21	0	29	14.06	14.94
TM38FB	25/06/24	XD6*39	7046289	28370844	14:35	14:45	0	37.31	16.03	21.28
TM38FB	25/06/24	YA8*35	7046289	28370843	14:42	14:47	0	36.98	15.68	21.3
TM38FB	25/06/24	VX4*45	7046289	28370845	16:30	16:36	0	28.7	13.91	14.79
TM38FB	25/06/24	JA8*30	7046289	28370846	16:41	16:49	0	28.69	14.02	14.67
TM38FB	25/06/24	YA8*35	7046289	28370756	17:07	17:14	0	37.14	15.92	21.22
TM38FB	25/06/24	XD8*04	7046289	28370847	17:12	17:31	0	36.51	16.42	20.09
TM38FB	25/06/24	UD2*7	7046289	28370757	17:27	17:58	0	37.56	16.38	21.18

#### **REMARKS**

堆填區 Landfill	NENT	新界東北堆填區 North East New Territories
公眾填料接收設施 Public fill reception facilities	TM38FB	屯門第38區填料庫 Fill Bank at Tuen Mun Area 38

#### APPENDIX M COMPLAINT LOG

## Appendix M - Complaint Log

Reporting month: June 2024

Complaint Log Ref.	EPD Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action Status	Status
C001	N07/RN/00020836- 23	Kong Nga Po Road (Lamp post GD0470)		The complainant alleged that the general construction noise except renovation (within Restricted Hours) from at Kong Nga Po Road (Lamp post GD0470), and commented that "晚上八九點地盤有噪音有人工作". The work sites under complaint are adjacent to the captioned Designated Project area.	Record of Site Investigation Refer to the public complaint which was no mention the certain time, based on daily record provided, CSJV was confirmed that the working period on 26, 27 & 28 Aug 2023 and the working hours were within the approved restricted hour. The equipment applied on the mentioned periods were listed in the Group D of the CNP No. GW- RN0882-23 (Effective date from 24/08/2023 to 23/11/2023)  According to the written reply, the Contractor has implemented both the notification of the neighborhood on the schedule of night works and erect noise barriers to screen noisy works for neighborhood. Please be advised that the Contractor is strictly adhering to the conditions of the construction noise permit.	Closed
C002	N07/RN/00029993- 23	The river(s) near the San Uk Ling Holding Centre		The complainant alleged that the river(s) near the San Uk Ling Holding Centre has recently had a large amount of soil/muddy water. (新屋嶺扣留中心附近的河流,近日有大量黃泥水)	Record of Site Investigation In reference to the public complaint, it has been noted that the complainant did not provide a precise description of the river(s) location adjacent to the San Uk Ling Holding Centre, where there has been a recent influx of soil-laden water.  EPD officers carried out site inspection on 15/12/2023 at 11:20 –12:00. EPD officers checked the U-channels, catchpits and wastewater treatment facility at WTF. No water including muddy water was discharged from Construction sites to the drainage. The Contractor has checked the drainage and wastewater treatment facilities at WTF and SOTF, which is near the complaint area. No water was discharged from the above locations.  Advice: For the Contractor:	Closed

			1)The Contractor strictly complies with the requirements of relevant environmental ordinances and EM&A Manual. 2)The promotional flyer contains a Community Liaison Hotline: 9790 2879 that can be placed in residents' mailboxes, so they can directly contact you to resolve environmental issues.  For EPD officer: 1)Please consider that the Community Liaison Hotline: 9790 2879 will be provided for the complainant to directly contact the Contractor to resolve environmental issues. 2) Please consider encouraging the complainant to provide more accurate and detailed information to	
			facilitate our follow-up efforts.	
C003	Soil/muddy water from San Uk Leng at Man Kam To Road near Designated Project of the	The complainant alleged in Chinese, as shown below: 1)4月6日下午約一點下了一場雨,但到7號已過一天,河水還是泥黃色 2)投訴人表示為上水新屋嶺附近居民,在新屋嶺練靶場附近有一政府地盤,由中國建築進行有關政府機動步隊的工程。投訴人表示建築公司沒有一個妥善的排污系統,把地盤所產生的黃	Record of Site Investigation Based on a complaint investigation conducted by the Contractor, no muddy water was found discharged from the site. Mitigation measures have been strengthened by plugging off the last manholes of the site.  According to the document provided, the improvement measures implemented by the	Closed
	Fonce Facilities in Kong Nga Po, near San Uk Leng at Man Kam To Road	沒有一個安善的排污系統,把地盤所產生的寅 泥水直接排在新屋嶺或經新屋嶺排走,導致黃 泥水經引水道流入新屋嶺及新屋嶺漁塘,嚴重 影響附近居民,現要求有關部門盡快跟進及處 理。	Contractor include the following: 1) Manhole SMH-0503 was plugged off, 2) Water pump was placed in the manhole to pump wastewater, if any, to the wastewater treatment facilities, 3) Manhole SMH-1305 was plugged off, and 4) Water pump was placed in the manhole to pump wastewater, if any, to the wastewater treatment facilities.	

#### Cumulative Complaint Log

Complaint Log Reporting Period	Total no. of Complaint Received
This reporting month	0
From 1st April 2023 to end of the reporting month	3

APPENDIX N SUMMARY OF SUCCESSFUL PROSECUTION

## Appendix N - Summary of Successful Prosecution

Date of Successful Prosecution	Details of the Successful Prosecution	Status	Follow Up	Total no. Received in this Reporting Month	Total no. Received since Project Commencement

### APPENDIX O

The potential seriousness of the forthcoming environmental impacts and the use of machineries

A list of potential environmental impacts	The advice includes, but is not limited to, the following	Consideration of possible alternative methods		
Visual Impact: The presence of machinery, equipment, and temporary structures associated with ground investigation and plate load testing may have visual impacts on the surrounding landscape, altering the aesthetic qualities of the area.  Noise and Vibration: The operation of heavy machinery can contribute to noise and vibration pollution, which can disturb local wildlife or sensitive wildlife habitats.	Screening and Camouflage: Use screening techniques, such as temporary fencing, barriers, or landscaping, to visually conceal the machinery, equipment, and temporary structures from view. This can help minimize the visual impact on the surrounding landscape.  Use of Low Noise and Vibration Equipment: Whenever possible, equipment produces lower levels of noise and vibration should be used. The use of noise barriers around the site can also help to mitigate the impact on local communities and wildlife.	+		
Disturbance of Local Ecosystems: The drilling operations, particularly those involving excavation, can potentially disturb the local ecosystems and impacting biodiversity.  Air Pollution: Machinery used in construction sites can emit pollutants into the air.  These pollutants may include Particulate Matter (PM), Nitrogen Oxides (NOx), Sulfur Oxides (SOx), and Volatile Organic Compounds (VOCs), contributing to air pollution and potentially impacting air quality in the surrounding area.	Training and Awareness: trainings are provided for site personal about the importance of minimizing disturbance to local ecosystems, such as minimized noise and light pollution, how to handle waste properly, and what to do if they encounter local wildlife.  Dust Control Measures: Implement dust control measures such as water sprays, dust screens, or using dust suppression chemicals to reduce particulate matter emissions, and training for all staff on the importance of air quality and measures to reduce air pollution.	<ul> <li>Employing construction methods of a low-impact nature, such as the utilization of machinery that is lightweight and drilling techniques which are minimally invasive</li> <li>1. Improved Fuel Efficiency and Maintenance:     Promoting fuel-efficient practices and regular maintenance of machinery can help reduce emissions.</li> <li>2. Properly maintained equipment operates more efficiently, resulting in lower fuel consumption and reduced emissions. Implementing fuel-saving measures, such as reducing idling time and optimizing equipment usage, can further minimize air pollution during construction.</li> </ul>		
Water Pollution: Drilling operations have the	Proper containment and lining of mud pools is crucial to	Horizontal Directional Drilling (HDD): HDD is a		

potential to contaminate local water sources, particularly if improper waste management practices are used. **Soil Disturbance:** The use of heavy machinery can cause soil compaction and disturbance, particularly during drilling operations or movement of equipment. This soil disturbance can disrupt the natural structure and composition of the soil, affecting its

prevent contamination. Mud pools should have an impermeable liner, such as HDPE or bentonite clay, to prevent seepage into the ground. Berms can be constructed around the perimeter to contain any overflow. Regular inspection and maintenance of the liner integrity is important.

- trenchless method that causes less disturbance to the surrounding environment and mitigates the risk of water contamination. It could be a viable alternative depending on the geology of the site and the purpose of the drilling operation.
- 2. Dry Drilling Techniques: Depending on the geology of the site, dry drilling techniques could be considered. These methods do not use drilling fluids and therefore reduce the risk of water contamination from these sources.

ability to support vegetation growth and nutrient cycling.

- 1. Proper Planning and Design: Incorporate soil protection measures into the initial planning and design phase of construction projects. This includes identifying sensitive areas and implementing appropriate construction techniques to minimize soil disturbance.
- 2. Ground Improvement Techniques: Techniques like soil stabilization, grouting, and compaction can help improve the soil's strength and stability, reducing the likelihood of soil disturbance during construction.

A helical pile is a type of deep foundation system used in construction. It consists of a steel shaft with helical plates or blades that are twisted into the ground to provide support for structures. Helical piles are commonly used in situations where traditional foundation methods are impractical or costly, such as in areas with poor soil conditions or limited access for heavy machinery.

**Energy Consumption:** The operation of machinery requires energy, typically derived from fossil fuels. The extraction, processing, and combustion of these fuels contribute to greenhouse gas emissions and contribute to climate change.

- 1. Training: workers are trained in the importance of energy conservation and efficiency. This could involve instruction on when to turn off equipment, how to use machinery efficiently, and the benefits of energy conservation.
- 2. Efficient Equipment and Machinery: Use energy-efficient machinery and equipment that consume less energy during operation. Regular maintenance and proper calibration of machinery can also improve energy efficiency and reduce energy waste.
- 1. Prefabrication and Modular Construction: Prefabrication and modular construction methods involve manufacturing building components off-site and assembling them onsite. This approach reduces energy consumption by streamlining the construction process, minimizing material waste, and optimizing energy usage during manufacturing.
- 2. Lean Construction: This methodology helps energy optimization in construction processes.

Waste Generation: Ground investigation and plate load testing may generate various types of waste, including drilling cuttings, excess soil, and construction debris. Improper disposal or management of these wastes can result in soil and water contamination or contribute to landfill usage.

Education and Training: education and training are provided to construction workers and staff on proper waste management practices. Raise awareness about the importance of waste reduction, recycling, and responsible disposal methods. Encourage worker participation and engagement in waste management initiatives.

Cone Penetration Testing (CPT): CPT is a method of ground investigation that produces minimal waste compared to traditional drilling methods. It involves pushing a cone-shaped probe into the ground and measuring the resistance, which can provide valuable information about the soil conditions with less soil disturbance.

### APPENDIX P A LIST OF MACHINERIES USED IN CONSTRUCTIN SITE

# |SSK509 Design and Construction of Kong Nga Po Police Training Facilities NRMM & QPME List

	<u>Type</u>	<u>Brand</u>	Model	S/N No.	Engine Make	Engine Model	NRMM No.	Approval, Exemption or Modification	QPME no.	QPME Expiry Date	Sound Power Level
	Generator	Airman	SDG100S-3B1	1533B10240	ISUZU	BI-4HK1XYGD-02	EPD-A-003542-2017	Approval	EPD-06206R	Dec-29	92
	Forklift	Mitsubishi	fd25nt	CF18C-81179	Mitsubishi	S4S	EPD-A-007117-2016	Approval			
	Loader	Bobcat	S450	B1ED14478	Kubota	V2403	EPD-A-000347-2022	Approval			
	Generator	Airman	SDG60S-3B1	14A3B10240	ISUZU	BJ-4JJ1XYGD-04	EPD-A-003657-2017	Approval	EPD-06274R	Dec-29	90
	Generator	Denyo	DCA-220ESEI	3936288	ISUZU	6UZ1	EPD-A-001848-2019	Approval	EPD-08614	Aug-25	96
	Forklift	Doosan	D30NXP	FDA41-1670-02844	YANMAR	4TNE98-BODF1CC	EPD-A-000153-2023	Approval			
	Generator	Airman	SDG60S-3B1	14A3B10369	ISUZU	BJ-4JJ1XYGD-04	EPD-A-001314-2020	Approval	EPD-09851	Aug-26	90
	Generator	Nippon Sharyo	NES150TI	DG041900	ISUZU	BH-6HK1X	EPD-A-001707-2018	Approval	EPD-07118	Jul-24	92
	Forklift	Mitsubishi	FD30NT	CF14E-16891	Mitsubishi	S4S	EPD-A-000779-2017	Approval			
)	Generator	Nippon Sharyo	NES220EM	FJ083800	Guangxi Yuchai	YC6A275-D30	EPD-M-002058-2020	Approval	EPD-01840R	Jul-25	95
	Generator	Airman	SDG300L-5B1	P9BB1-0057	KOMATSU	SAA6D125E-5-BV	EPD-A-001535-2017	Approval	EPD-05174R	Apr-29	98
2	Excavator	Komatsu	PC138US-8NM	29202	KOMATSU	SAA4D95LE-5	EPD-A-000710-2021	Approval	2. 5 0017 110	7.p. 23	30
3	Excavator	Hitachi	ZX200-5A	HCMDCX90E00300835		4HK1-XDHAG-02-C3	EPD-A-001008-2019	Approval	EPD-08152	Apr-25	103
1	Excavator	Hitachi	ZX75US-3	HCM1P300A00062042	ISUZU	AU-4LE2X	EPD-A-003158-2019	Approval	LI D 00132	7 (pr 23	103
5	Generator	Airman	SDG220L-5B1	P8BB1-0339	ISUZU	BH-6UZ1XYGD-04	EPD-A-001469-2022	Approval	EPD-12431	Jun-28	94
5	Generator	Nissha	NES150TI	DG028600	Isuzu	BH-6HK1X	EPD-A-001409-2022		EPD-03628R	Apr-28	92
7								Approval			87
	Generator	Airman	SDG45S-3B1	1333B10475	Kubota	V3800-T	EPD-A-000053-2018	Approval	EPD-06536R	Feb-30	
3	Generator	Airman	SDG220L-5B1	P8BB1-0383	ISUZU	BH-6UZ1XYGD-04	EPD-A-000565-2023	Approval	EPD-13321	Mar-29	94
)	Excavator	Komatsu	SK350LC-8	YC11-06650	Hino	J08E-TM	EPD-A-002154-2018	Approval	EDD 07060		00
)	Generator	Nippon Sharyo	NES150TI	DG042300	ISUZU	BH-6HK1X	EPD-A-002077-2018	Approval	EPD-07262	Aug-24	92
	Excavator	Yanmar	ViO40-5	51036B	Yanmar	4TNV88-PBV	EPD-A-000128-2019	Approval			
2	Excavator	Hitachi	ZX350K-3	HCM1V900T00056936	ISUZU	6HK1-XDHAA-01-C2	EPD-A-000772-2020	Approval			
3	Excavator	Kobelco	SK135SR-2	YY06-15612	Mitsubishi	D04FR	EPD-A-000581-2022	Approval			
1	Excavator	Liugong	CLG922E	CLG922EZHPE718565	Cummins	QSB7	EPD-A-003163-2023	Approval			
5	Generator	Nippon Sharyo	NES60TK2	KS013300	Kubota	V3800-DI-TI-K3A	EPD-A-007338-2016	Approval	EPD-04522R	Dec-28	90
5	Road works machine	BITELLI	DTV325	000816	HATZ	2M41	EPD-EE-018554-2015	Exemption			
7	Excavator	Kobelco	SK200-8	YN12-65540	Hino	J05E-TA	EPD-A-003548-2017	Approval			
3	Loader	Bobcat	S450	B1ED11528	Kubota Corporation	V2403-M-DI-EU32	EPD-A-005651-2016	Approval			
)	Excavator	Kobelco	SK225SR	YB05-03058	Hino	AA-J05E-TA	EPD-A-001400-2022	Approval			
)	Excavator	Kato	HD820V	KWJ01E01PC0006237	Mitsubishi	4M50-TLE3A	EPD-A-003461-2021	Approval			
	Excavator	Hitachi	ZX225USR-5B	HCMDCQA0E00303589		4HK1	EPD-A-000509-2024	Approval			
2	Excavator	Liugong	CLG922E	CLG922EZEPE718566	Cummins	OSB7	EPD-A-003164-2023	Approval			
3	Excavator	Kobelco	SK135SR-2	YY06-22265	Mitsubishi	D04FR	EPD-A-005755-2016	Approval			
<u>,                                     </u>	Excavator	Kobelco	SK225SR-3	YB07-05170	Hino	J05E	EPD-A-000565-2024	Approval			
5	Excavator	Kobelco	SK135SR-2	YY05-12343	Mitsubishi	D04FR-KDP2TAAC	EPD-A-000483-2017	Approval			
5			NES60TK2	KS013000	Kubota	V3800-DI-TI-K3A	EPD-A007294-2016		EPD-04519R	Dec-28	90
7	Generator	Nippon Sharyo						Approval	EPD-04519K	Dec-28	90
3	Excavator	Komatsu	PC228US-3E0	KMTPC161P02042049	KOMATSU	SAA6D107E-1	EPD-A-005462-2016	Approval			
	Excavator	Kato	HD820V	KWJ01E01VA0005768	Mitsubishi	4M50-TLE3A	EPD-A-000979-2022	Approval			
)	Road works machine	Dynapac	CC1300	10000334E0A010764	Kubota	V22030	EPD-EE-019550-2015	Exemption			
)	Air compressor	Denyo	DIS-180SS2	3929214	ISUZU	AA-4LE2	EPD-A-001224-2018	Approval		-	
	Excavator	Caterpillar	320D	CAT0320DEBWZ02549	Caterpillar	JRD-C6.4	EPD-A-000252-2019	Approval			
2	Road works machine	BOMAG	BW131AD-2	751750101550	KUBOTA	V1505	EPD-A-001349-2022	Approval			
		CHINA Geo-									
		equipment									
3	Drilling rig	Chongqing	XY-2B	3-4756	BEINEI	F4L912E11-1	EPD-A-001602-2020	Approval			
		Exploration Machinery	<b>/</b>								
		Co. Ltd.									
ļ	Generator	Nippon Sharyo	NES25TK	XZ027600	Kubota	V2403-K3A	EPD-A-007336-2016	Approval	EPD-04514R	Dec-28	90
5		Liugong	CLG365B		Perkins	404D-22	EPD-A-000432-2024	Approval			
5	Generator	Airman	SDG60S-3B1	14A3B10618	ISUZU	BJ-4JJ1XYGD-04	EPD-A-002916-2022	Approval	EPD-12884	Dec-28	90
7	Generator	Airman	SDG125S-3B1	1263B10611	ISUZU	BI-4HK1XYGD-02	EPD-A-000878-2024	Approval	EPD-14678	Apr-30	92
3	Generator	Airman	SDG150S-3B1	1723B10569	ISUZU	BH-6HK1XYGD-11	EPD-A-002208-2023	Approval	EPD-13957	Sep-29	95
)	Generator	Nippon Sharyo	NES220EM	FJ091800	Guangxi Yuchai	YC6A275-D30	EPD-M-003034-2023	Approval	EPD-02303R	Jun-26	95
			SK135SR-2	YY06-18660	Mitsubishi	D04FR	EPD-A-003077-2019	Approval		1	
	IExcavator	LKODEICO									
)	Excavator Generator	Kobelco Airman	SDG220L-5B1	P8BB1-0529	ISUZU	BH-6UZ1XYGD-04	EPD-A-001084-2024	Approval	EPD-14827	May-30	94

### APPENDIX Q Wastewater Discharge Layout Plan

