Central Police Station Conservation and Revitalisation Project

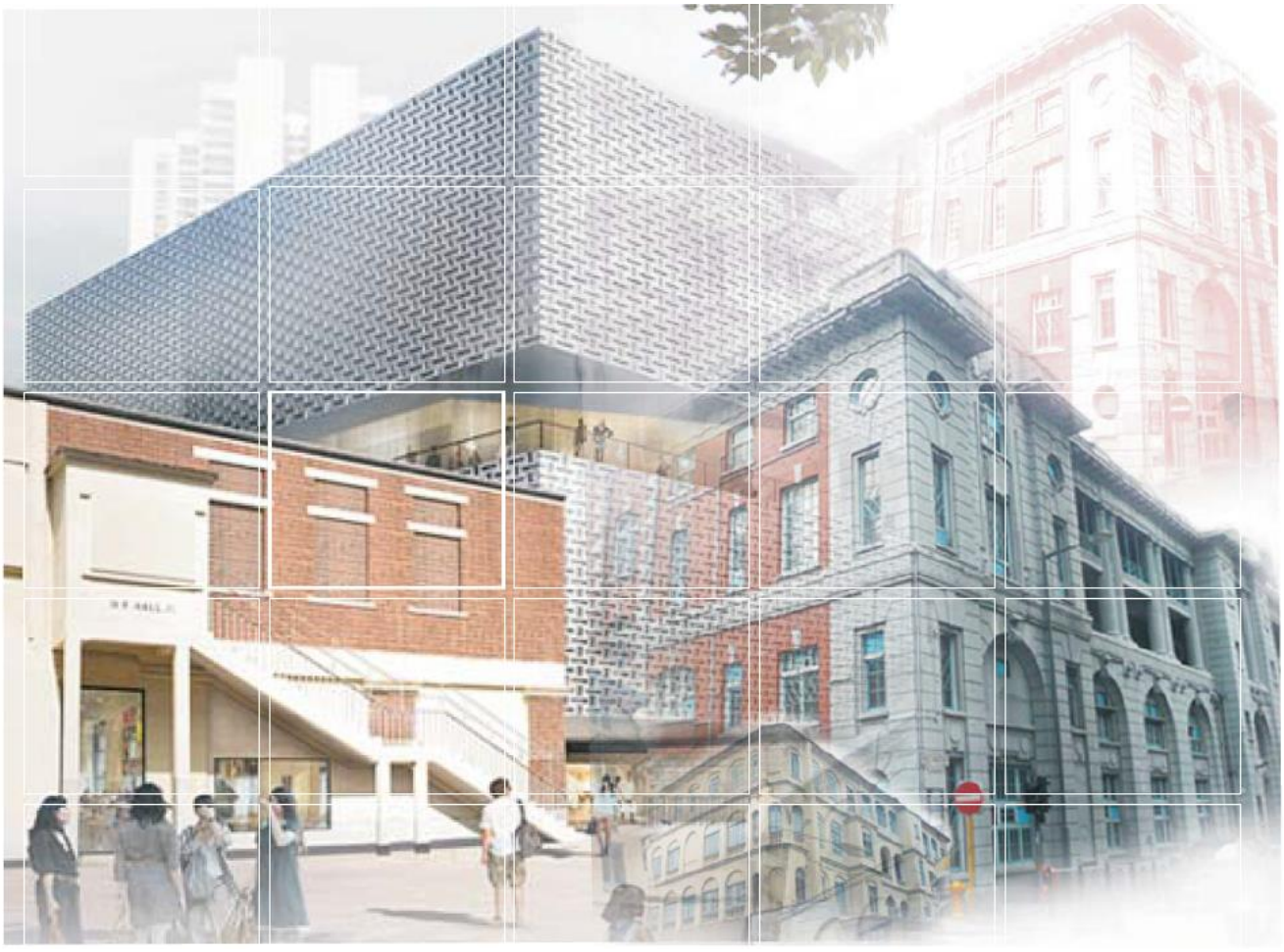
Monthly EM&A Report No. 100 (1 June to 30 June 2024)

PREPARED FOR

賽馬會文物保育有限公司
The Jockey Club CPS Limited

DATE
11 July 2024

REFERENCE
0529357



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Central Police Station Conservation and Revitalisation Project

Monthly EM&A Report No. 100
(1 June to 30 June 2024)

0529357

APPROVED BY

Jasmine Ng
Partner

CERTIFIED BY

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AtkinsRéalis

By Email (mandy.to@erm.com)

ERM-Hong Kong Limited
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18 Tak Fung Street, Hung Hom,
Kowloon, Hong Kong

Attn: Ms Mandy To

OUR REFERENCE:
5197395 /18.30/OC036/WK/AL

YOUR REFERENCE:
0529357_let_Atkins_20240711
Monthly EM&A Report No.100.docx

DATE:
12 July 2024

Dear Mandy,

Central Police Station Conservation and Revitalisation Project
(Environmental Permit No. EP-408/2011/C)
Verification of Monthly EM&A Report No. 100

We refer to your letter dated 11 July 2024 regarding the Monthly EM&A Report No. 100. Atkins China Limited verifies, in the capacity of Independent Environmental Checker, that the report confirms the requirements provided in Condition 3.4 of the Environmental Permit (EP-408/2011/C).

Yours faithfully,
For and on behalf of
Atkins China Limited

WK Chiu
Independent Environmental Checker

c.c. HKJC –Mr. Gary Chou (By Email)
Rocco Design Architect – Mr. Charles Kung (By Email)

CONTENTS

LIST OF TABLES

EXECUTIVE SUMMARY

The construction works of **Central Police Station Conservation and Revitalisation Project** commenced on 24 October 2011. Besides Block 4 Married Inspector Quarters and Deputy Superintendent House, all construction works of the Project were completed by 25 May 2018 and the Project commenced operation (i.e. Tai Kwun) since 25 May 2018. The construction Environmental Monitoring and Audit (EM&A) programme was also suspended since 25 May 2018, as justified by the ET leader, verified by the Independent Environmental Checker (IEC) and approved by the Environmental Protection Department (EPD) under Condition 3.1 of the EP-408/2011/C.

The construction works of Block 4 and the construction EM&A programme continued starting from 15 June 2020 and were temporarily suspended since 1 February 2021, as justified by the ET leader, verified by the IEC and approved by EPD under Condition 3.1 of the EP-408/2011/C.

Subsequently, the construction works of Block 4 and the construction EM&A programme resumed on 15 June 2023, as notified by JCCPS to EPD on 5 May 2023. Major construction activities conducted during the reporting period were Addition and Alteration (A&A) works (taking down of 1/F walls) at Block 4. Block 4 as mentioned throughout this Monthly EM&A report is the same as "Building 04" in the approved EIA Report.

This is the 100th monthly EM&A report presenting the EM&A works carried out during the period from 1 to 30 June 2024 in accordance with the EM&A Manual.

ENVIRONMENTAL MONITORING AND AUDIT PROGRESS

A summary of the monitoring activities in this reporting period is listed below:

- Construction noise monitoring during normal weekdays at each monitoring station — 4 time(s)
- Joint environmental site inspection — 1 time(s)
- Heritage site inspections — 4 time(s)
- Vibration monitoring for other construction works — 24 time(s)

NOISE

4 sets of 30-minute construction noise measurements were carried out at each of the monitoring stations (N2a and N5a) during normal weekdays on 4, 11, 20 and 27 June 2024. No exceedance of the Action or Limit Level of construction noise was recorded during the reporting period.

CULTURAL HERITAGE

Vibration monitoring carried out for other construction works during the reporting period are listed below:

- 24 vibration monitoring measurements for the A&A works at Block 4.

No exceedance of the Alert, Alarm and Action Levels was recorded during the reporting period.

Heritage site audits were conducted on 4, 11, 18 and 24 June 2024 by the Heritage Checker during the reporting period.

Follow-up on Observations during the Site Audits of Previous Month:

- Nil.

Major Observations and Recommendations during the Site Audits of this Reporting Month:

- Nil.

WASTE MANAGEMENT

A total of 180.7 tonnes of inert C&D material was generated during the reporting period. No non-inert C&D materials was generated during the reporting period. No metal, paper/cardboard packaging or plastic waste was recycled during the reporting period. No chemical waste was collected by licenced chemical waste collector during the reporting period.

ENVIRONMENTAL SITE INSPECTION

A joint environmental site inspection was carried out by the representatives of JCCPS, the Contractor, the IEC and the ET on 14 June 2024. Key observation(s) and recommendation(s) during the environmental site inspection were listed below:

- Nil.

ENVIRONMENTAL EXCEEDANCE/NON-CONFORMANCE/COMPLIANT/ENQUIRY/ SUMMONS AND PROSECUTION

No exceedance of the Action or Limit Level of construction noise was recorded at designated monitoring stations during the reporting period.

No exceedance of Alert, Alarm and Action Levels of vibration was recorded during the reporting period.

No enquiry was received during the reporting period.

No environmental non-compliance event was recorded during the reporting period. No non-compliance report related to the character defining elements, historic buildings and structures was issued during the reporting period.

No complaint was received during the reporting period.

No summons/prosecution was received during the reporting period.

FUTURE KEY ISSUES

The construction works of the Project will be confined to the Block 4 site only. Major construction activity for the coming reporting month will be A&A works (removal of 1/F masonry piers) at Block 4.

1. INTRODUCTION

ERM-Hong Kong, Limited (ERM) was appointed by the Jockey Club CPS Limited (JCCPS) as the Environmental Team (ET) to undertake the Environmental Monitoring and Audit (EM&A) programme for the Central Police Station Conservation and Revitalisation Project (the Project).

1.1 PURPOSE OF THE REPORT

This is the 100th monthly EM&A report which summarises the impact monitoring results and audit findings for the EM&A programme during the reporting period from 1 to 30 June 2024.

1.2 STRUCTURE OF THE REPORT

Following this introductory section, the remainder of this *Monthly EM&A Report* is organised as follows:

- *Section 2* summarises the background and scope of the project, site description, project organisation and contact details, construction programme, construction works undertaken and status of the Environmental Permits/Licenses during the reporting period;
- *Section 3* summarises the monitoring parameters, monitoring programmes, monitoring methodologies, monitoring frequency, monitoring locations, Action and Limit Levels, Event/Action Plans, environmental mitigation measures as recommended in the EIA report and relevant environmental requirements;
- *Section 4* summarises the implementation of environmental protection measures during the reporting period;
- *Section 5* summarises the monitoring results obtained in the reporting period;
- *Section 6* summarises the audit findings of the site inspections undertaken within the reporting period;
- *Section 7* summarises any monitoring exceedance, environmental complaints and environmental summons within the reporting period;
- *Section 8* mentions completion of construction and commencement of operation; and
- *Section 9* provides the conclusion of this Monthly EM&A Report.

2. PROJECT INFORMATION

2.1 BACKGROUND

Besides Block 4 Married Inspector Quarters and Deputy Superintendent House, all construction works of the Project were completed by 25 May 2018 and the Project commenced operation (i.e. Tai Kwun) since 25 May 2018. The construction EM&A programme was also suspended since 25 May 2018, as justified by the ET leader, verified by the Independent Environmental Checker (IEC) and approved by the Environmental Protection Department (EPD) under Condition 3.1 of the EP-408/2011/C.

The construction works of Block 4 and the construction EM&A programme continued starting from 1 June 2020 and were temporarily suspended since 1 February 2021, as justified by the ET leader, verified by the IEC and approved by EPD under Condition 3.1 of the EP-408/2011/C.

Subsequently, the construction works of Block 4 and the construction EM&A programme resumed on 15 June 2023, as notified by JCCPS to EPD on 5 May 2023.

2.2 SITE DESCRIPTION

The location of the Project Site is shown in ***Appendix A1***. The Site is bounded by Hollywood Road to the north, Arbuthnot Road to the east, Chancery Lane to the south and Old Bailey Street to the west.

The Site comprises three Declared Monuments designated under the *Antiquities and Monuments Ordinance* in 1995. They are:

- Central Police Station;
- Former Central Magistracy; and
- Victoria Prison Compound.

They are collectively named the Central Police Station (CPS). ***Appendix A2*** shows the location of the Declared Monuments within CPS and the buildings within the CPS.

2.3 CONSTRUCTION ACTIVITIES

The construction works of the Project are confined to the Block 4 site only. Major construction activities conducted during the reporting period were Addition and Alteration (A&A) works (taking down of 1/F walls) at Block 4.

2.4 PROJECT ORGANISATION

The Project organisation chart and contact details are shown in ***Appendix B***.

2.5 STATUS OF ENVIRONMENTAL APPROVAL DOCUMENTS

A summary of the valid permits, licences, and/or notifications on environmental protection for this Project in the reporting period is presented in Table 2.1.

TABLE 2.1 SUMMARY OF ENVIRONMENTAL LICENSING, NOTIFICATION AND PERMIT STATUS

Permit/Licences/Notification	**Reference**	**Validity Period**	**Remarks**
Environmental Permit (EP)	EP-408/2011/C	Throughout the Contract	Permit granted on 29 April 2016
Notification of Construction Works as required under *Air Pollution Control (Construction Dust) Regulation*	Ref. No. 457024	Throughout the Contract	-
Registration of Chemical Waste Producer under *Waste Disposal Ordinance*	Chemical Waste Producer No.: 5213-122-S4253-01	Throughout the Contract	-
Disposal of C&D material/waste	Billing Account Number: 7030507	Throughout the Contract	-
Effluent Discharge License under *Water Pollution Control Ordinance*	WT00036403-2020	2 September 2020 to 30 September 2025	-

3. ENVIRONMENTAL MONITORING REQUIREMENT

3.1 NOISE MONITORING

3.1.1 MONITORING PARAMETERS, FREQUENCY AND PROGRAMME

The construction noise monitoring locations are listed in Table 3.1 and are shown in ***Appendix C***.

TABLE 3.1 CONSTRUCTION PHASE NOISE MONITORING STATION

Monitoring Location	**Proposed Construction Noise Monitoring Station**			
	ID in EM&A Manual	**ID**	**Type of Measurement**	**Remark**
2nd Floor of Block 3 at Tai Kwun	---	N2a	Façade	Access to the original proposed monitoring location in the EM&A Manual, Rooftop of Ho Fook Building (N2/NM2) could not be obtained; alternative location (N2a) was therefore proposed and approved by the Authorised Person (AP), IEC and EPD.
Outside of Boundary Wall of Tai Kwun at Chancery Lane	---	N5a	Free field	Access to the original proposed monitoring location in the EM&A Manual, Chancery House (N5), was denied; and the previous alternative location of Chancery Mansion (N6/NM6) was demolished; alternative location (N5a) was therefore proposed and approved by AP, IEC and EPD.

Notes:

Block 3 as mentioned in this Monthly EM&A report is the same as "Building 03" in the approved EIA Report.

The noise sensitive receivers are also shown in ***Appendix C***.

3.1.2 MONITORING PARAMETERS, FREQUENCY AND PROGRAMME

Weekly construction noise monitoring was conducted in accordance with the requirements stipulated in the EM&A Manual. The monitoring programme for this reporting period is shown in ***Appendix D***.

The construction noise levels were measured in terms of A-weighted equivalent continuous sound pressure level (L_{eq}) in decibels dB(A). $L_{eq\ (30min)}$ were used as the monitoring parameter for the time period in between 0700 – 1900 hours on normal weekdays. Supplementary information for data auditing, two statistical sound levels L_{10} and L_{90} - the levels exceeded for 10 and 90 percent of the time respectively, were also recorded during the monitoring for reference. The measured noise levels were logged in every 5 minutes throughout the impact monitoring period.

3.1.3 MONITORING EQUIPMENT AND METHODOLOGY

Construction noise measurements were conducted in accordance with the calibration and measurement procedures as stated in *Annex – General Calibration and Measurement Procedures* of *Technical Memorandum on Noise from Construction Work other than Percussive Piling* (*GW-TM*) issued under the *Noise Control Ordinance* (*NCO*) (Cap 400).

The sound level meters and calibrator used for the noise measurement, as listed in *Table 3.2*, complies with the IEC 651: 1979 and 804:1985 (Type 1) specifications. The calibration certificates of the sound level meters are appended in ***Appendix E***.

TABLE 3.2 NOISE MONITORING EQUIPMENT

Monitoring Stations	**Monitoring Equipment (Sound Level Meter and Calibrator)**
N2a, N5a	*Calibrator* LARSON DAVIS CAL200 (S/N 10227) *Sound Level Meter* Rion NL-52 (S/N 00331805)

Immediately prior to and following the noise measurements, the accuracy of the measurement equipment was checked using an acoustic calibrator generating a known sound pressure level at a known frequency.

Measurements were accepted as the calibration level from before and after the noise measurement agree to within 1.0 dB(A).

3.1.4 EVENT / ACTION PLAN

TABLE 3.3 ACTION AND LIMIT LEVELS FOR CONSTRUCTION NOISE MONITORING

Noise Monitoring Location	**Action Level**	**Limit Level, $L_{eq(30mins)}$, dB(A)**	**Remark**
N2a, N5a	When one documented complaint is received from any one of the sensitive receivers	75 (note)	Applicable during 0700 – 1900 hours on normal weekdays.

Notes:
(a) Acceptable Noise Levels for Area Sensitivity Rating of A/B/C. Limit Level is reduced to 70dB(A) for schools and 65dB(A) during school examination periods.
(b) If works are to be carried out during restricted hours, the conditions stipulated in the Construction Noise Permit (CNP) issued by the Noise Control Authority (NCA) have to be followed.

The Event / Action Plan (EAP) for noise monitoring is presented in ***Appendix F*.**

3.1.5 MITIGATION MEASURES

The mitigation measures in accordance with the EP, EIA and EM&A Manual and their implementation status are presented in ***Appendix G***.

3.2 CULTURAL HERITAGE

3.2.1 VIBRATION MONITORING

Vibration Monitoring for Other Construction Works

Vibration monitoring should be carried out for other construction works including A&A works. The monitoring locations are shown in ***Appendix L***. The number and location of monitoring will depend on the location of the specific construction works. The vibration monitoring should be conducted for duration of 5 minutes on a daily basis (working day) at each vibration monitoring location.

Alert, Alarm and Action Levels

The Alert, Alarm and Action (AAA) Levels are to be implemented during the vibration monitoring and shown in *Table 3.4*.

TABLE 3.4 ALERT, ALARM AND ACTION (AAA) LEVELS FOR VIBRATION MONITORING

Instrument Type	Item Monitored	Alert Level	Alarm Level	Action Level
Vibration Monitoring	Horizontal Movement	2.0 mm/s	2.5 mm/s	3.0 mm/s

The Event / Action Plan (EAP) for vibration monitoring is shown in *Table 3.5*.

TABLE 3.5 EVENT AND ACTION PLAN FOR VIBRATION MONITORING

Events	Action
Exceedance of Alert Level	Notify Management Contractor
Exceedance of Alarm Level	Notify Authorised Person/ Resident Engineer
Exceedance of Action Level	Cease Works and submit mitigation

3.2.2 MITIGATION MEASURES

Cultural heritage mitigation measures in accordance with the EP, EIA and EM&A Manual were implemented by the Contractor and the implementation status is given in ***Appendix G***.

3.3 LANDSCAPE AND VISUAL MONITORING

The construction works of the Project are currently confined to the Block 4 site only. No trees are located within the Block 4 site. Tree inspection is considered not necessary. Implementation of mitigation measures for landscape and visual resources recommended in the EIA Report was monitored during the site inspection.

3.3.1 MITIGATION MEASURES

Landscape and visual mitigation measures in accordance with the EP, EIA and EM&A Manual were implemented by the Contractor and the implementation status is given in ***Appendix G***.

3.4 ENVIRONMENTAL REQUIREMENTS IN CONTRACT DOCUMENTS

The environmental requirements as specified in the contract documents were reviewed and were covered in the EIA's requirements

4. IMPLEMENTATION STATUS ON ENVIRONMENTAL PROTECTION REQUIREMENTS

The Contractor has generally implemented the environmental mitigation measures and requirements as stated in the EIA Report, the EP and EM&A Manual and the contract documents. The implementation status during the reporting period is summarised in ***Appendix G***.

Status of required submissions under the EP and EM&A Manual during the reporting period is presented in *Table 4.1*.

TABLE 4.1 STATUS OF REQUIRED SUBMISSIONS

Submission		Submission Date
EP Condition		
Condition 3.4	99th Monthly EM&A Report	14 June 2024

5. MONITORING RESULTS

5.1 NOISE

A total of 4 sets of 30-minute construction noise measurements were carried out at the monitoring stations (N2a and N5a) during normal weekdays on 4, 11, 20 and 27 June 2024. The monitoring results together with graphical presentations are presented in ***Appendix H***. The local impacts observed near the monitoring stations of N2a and N5a were summarised below:

- N2a: construction noise from the construction site nearby.
- N5a: construction noise from the construction site nearby.

No exceedance of the Action or Limit Level of construction noise was recorded during the reporting period.

5.2 CULTURAL HERITAGE

5.2.1 VIBRATION MONITORING

Vibration Monitoring was conducted for duration of 5 minutes on a daily basis (working day) at each vibration monitoring location. The monitoring results are presented in ***Appendix L***.

Other Construction Works

- 24 vibration monitoring measurements for the A&A works at Block 4.

All monitoring results were below the Alert/Alarm/Action Levels.

5.2.2 HERITAGE SITE AUDIT

Heritage site audits were conducted on 4, 11, 18 and 24 June 2024 by the Heritage Checker during the reporting period. The monthly site audit checklist for cultural heritage is appended in ***Appendix M***.

Follow-up on Observations during the Site Audits of Previous Month:

- Nil.

Major Observations and Recommendations during the Site Audits of this Reporting Month:

- Nil.

5.3 WASTE MANAGEMENT

Wastes generated from this Project may include inert construction and demolition (C&D) materials and non-inert C&D materials. With reference to relevant handling records and trip tickets of this Project, the quantities of different types of waste generated in the reporting period are summarised in *Table 5.1*.

TABLE 5.1 QUANTITIES OF WASTE GENERATED FROM THE PROJECT

Month / Year	Quantity						
	C&D Materials (inert) [a]	C&D Materials (non-inert) [b]	Chemical Waste		Recycled Materials		
			Solid	Liquid	Paper/ cardboard	Plastics	Metals
	(in tonne)	(in tonne)	(in kg)	(in L)	(in kg)	(in kg)	(in kg)
June 2024	180.7	0	0	0	0	0	0

Notes:

(a) Inert C&D materials include bricks, concrete, building debris, rubble and excavated soil.

(b) Non-inert C&D materials include general refuse and mixed construction waste.

6. ENVIRONMENTAL SITE INSPECTION

Joint environmental site inspection was conducted by the representatives of JCCPS, the Contractor, IEC and the ET in the reporting period on 14 June 2024. There was no non-compliance recorded during the site inspection.

Follow-up Actions for the Last Site Audit

- Nil.

Observations and Recommendations of this Reporting Month

- Nil.

7. ENVIRONMENTAL NON-CONFORMANCE

7.1 SUMMARY OF MONITORING EXCEEDANCE

No exceedance of the Action or Limit Level of construction noise was recorded at designated monitoring stations during the reporting period.

No exceedance of Alert, Alarm and Action Levels of vibration was recorded during the reporting period.

7.2 SUMMARY OF ENQUIRY

No enquiry was received during the reporting period.

7.3 SUMMARY OF NON-COMPLIANCE

No environmental non-compliance event was recorded during the reporting period. No non-compliance report related to the character defining elements, historic buildings and structures was issued during the reporting period.

7.4 SUMMARY OF ENVIRONMENTAL COMPLAINT

No complaint was received during the reporting period. The cumulative number of complaints are presented in ***Appendix K***.

7.5 SUMMARY OF ENVIRONMENTAL SUMMONS AND SUCCESSFUL PROSECUTION

No summons/prosecution was received during the reporting period.

8. FUTURE KEY ISSUES

8.1 KEY ACTIVITIES FOR THE COMING MONTH

The construction works of the Project will be confined to the Block 4 site only. Major construction activity for the coming reporting month will be A&A works (removal of 1/F masonry piers) at Block 4.

8.2 MONITORING SCHEDULE FOR THE NEXT MONTH

The tentative schedule of noise monitoring for the next reporting period is presented in ***Appendix D***.

8.3 CONSTRUCTION PROGRAMME FOR THE NEXT MONTH

The most updated construction programme for the Project is presented in ***Appendix I***.

9. CONCLUSIONS

This *Monthly Environmental Monitoring and Audit (EM&A) Report* presents the EM&A works undertaken during the period from 1 to 30 June 2024 in accordance with EM&A Manual and the requirement under EP-408/2011/C.

No exceedance of the Action or Limit Level of construction noise was recorded at designated monitoring stations during the reporting period.

No exceedance of Alert, Alarm and Action Levels of vibration was recorded during the reporting period.

No enquiry was received during the reporting period.

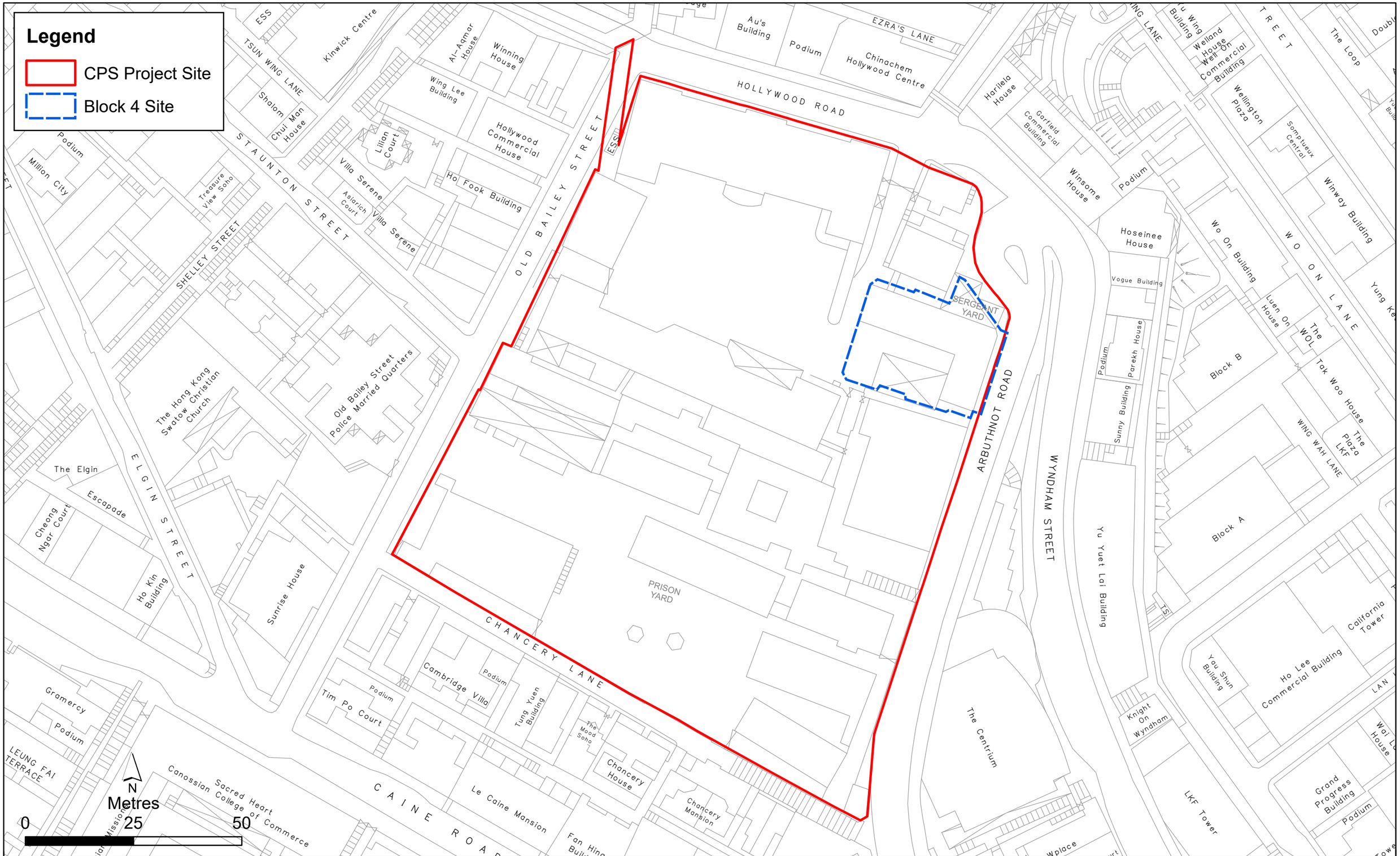
No environmental non-compliance event was recorded during the reporting period. No non-compliance report related to the character defining elements, historic buildings and structures was issued during the reporting period.

No complaint was received during the reporting period.

No summons/prosecution was received during the reporting period.

The ET will keep track on the EM&A programme to ensure compliance of environmental requirements and the proper implementation of all necessary mitigation measures.

APPENDIX A LOCATION OF WORKS AREAS AND THE SURROUNDINGS



Appendix A1

Project Location

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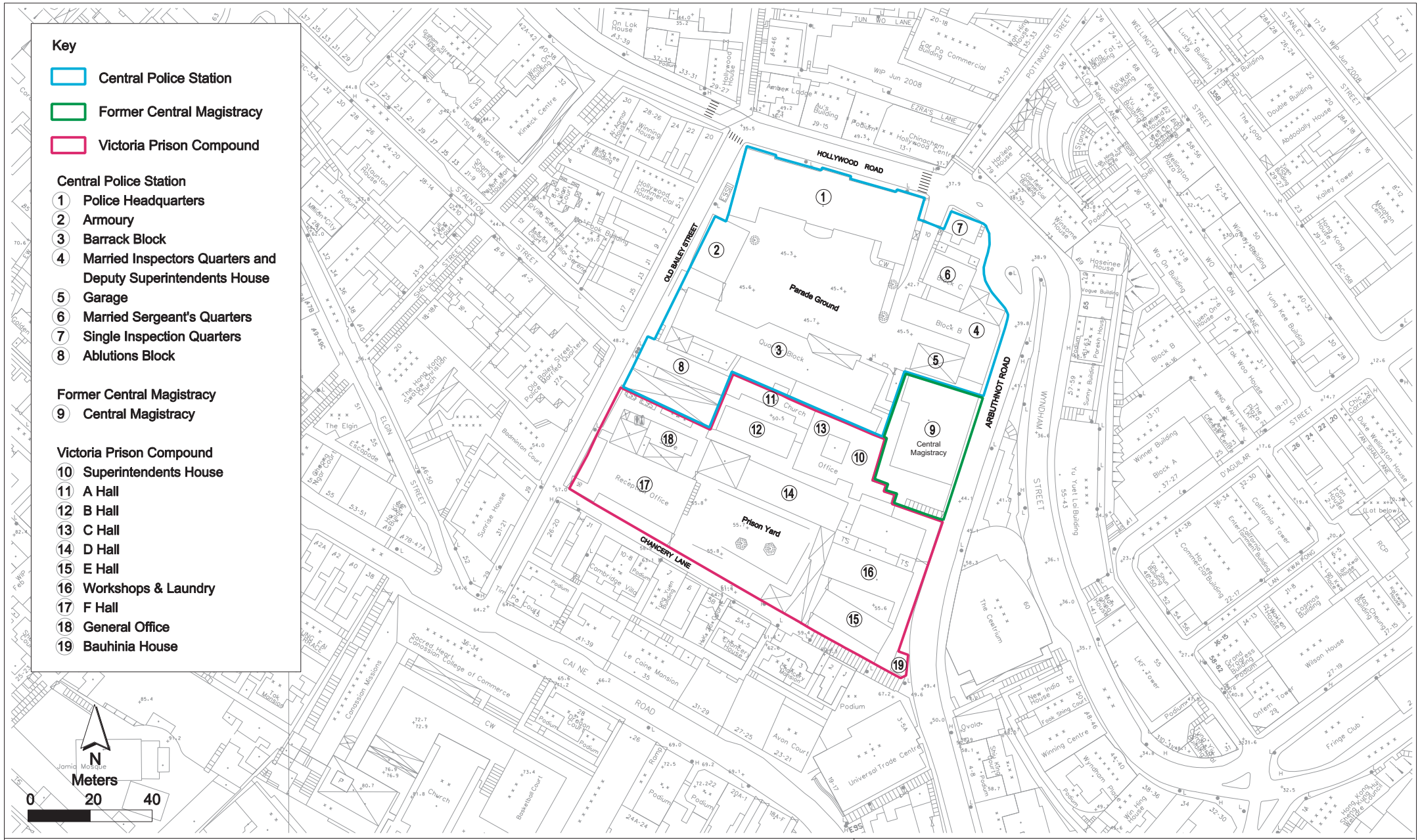
Date: 7/7/2020

ERM



Appendix A2

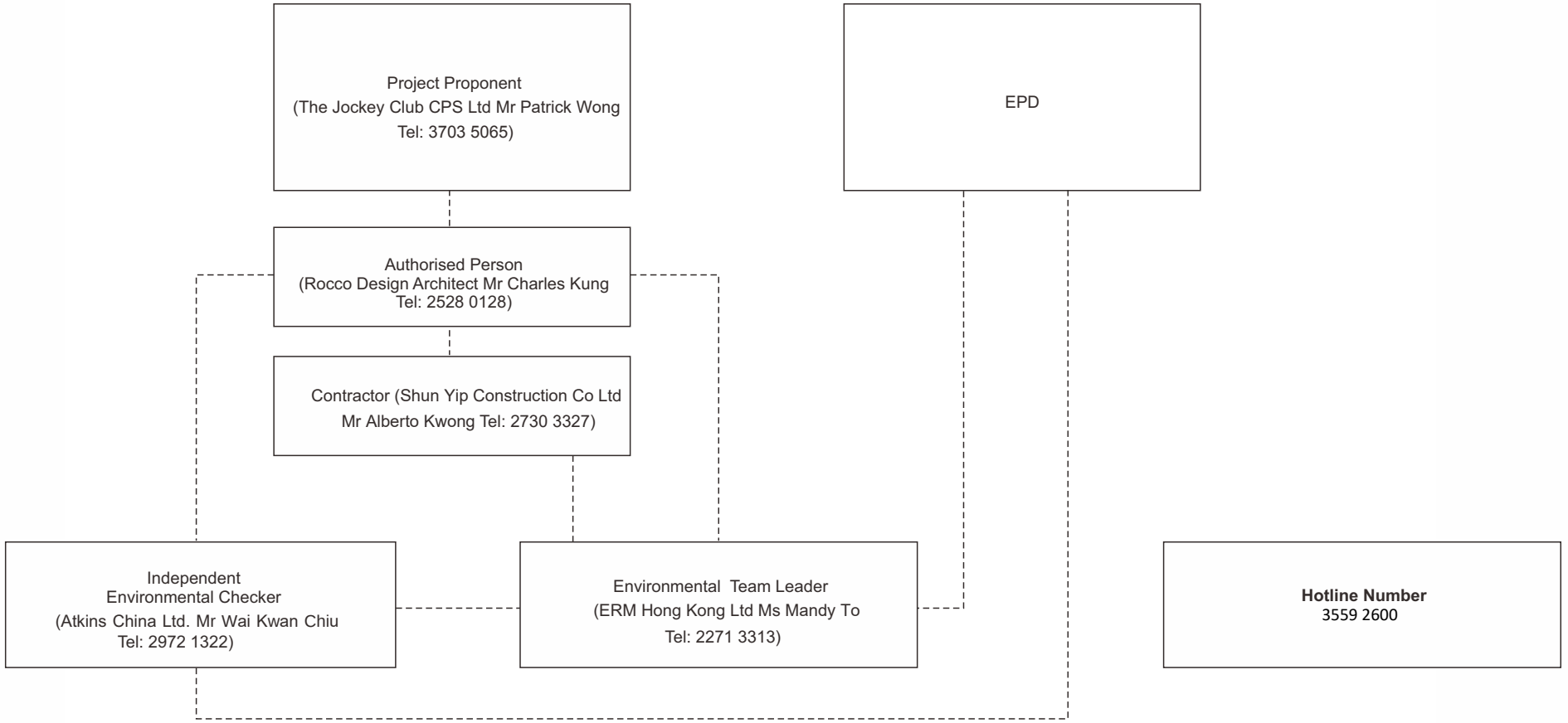
Declared Monuments within the Project Site

FILE: 0095646b1-A3.dgn
DATE: 07/12/2011

ERM

賽馬會文物保育有限公司
The Jockey Club CPS Limited

APPENDIX B PROJECT ORGANISATION CHART AND CONTACT DETAIL



Appendix B

Project Organisation

FILE: 0095646l
DATE: 07/07/2020

ERM

賽馬會文物保育有限公司
The Jockey Club CPS Limited

APPENDIX C LOCATIONS OF NOISE MONITORING STATIONS AND NOISE SENSITIVE RECEIVERS

Legend

- Representative Noise Sensitive Receivers
- Noise Monitoring Locations
- CPS Project Site
- Block 4 Site

NSR	Description
N1	Amber Lodge
N2	Ho Fook Building
N3	Old Bailey Street Police Married Quarters
N4	Cambridge Villa
N5	Chancery House
N6	Chancery Mansion (Under Construction)

Noise Monitoring Locations

N2a	2nd Floor of Block 3 at Tai Kwun
N5a	Outside of Boundary Wall of Tai Kwun at Chancery Lane

N1
N2
N2a
N3
N4
N5a
N5
N6
The Centrium
CAINE
N
Metres
0
20
40

Appendix C

Location of Representative Noise Sensitive Receivers and Noise Monitoring Locations

File: T:\GIS\CONTRACT\0529357\mxd\0529357_NSR_Background_Noise.mxd
Date: 7/7/2020

ERM

APPENDIX D MONITORING SCHEDULE OF THE REPORTING MONTH AND NEXT MONTH

Central Police Station Conservation and Revitalisation Project
(2nd Floor of Block 3 at Tai Kwun - N2a & Outside of Boundary Wall of Tai Kwun at Chancery Lane - N5a)
Monitoring Schedule for Reporting Month - June 2024

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						01-Jun
02-Jun	03-Jun	04-Jun	05-Jun	06-Jun	07-Jun	08-Jun
		Noise Monitoring at N2a & N5a				
09-Jun	10-Jun	11-Jun	12-Jun	13-Jun	14-Jun	15-Jun
		Noise Monitoring at N2a & N5a				
16-Jun	17-Jun	18-Jun	19-Jun	20-Jun	21-Jun	22-Jun
				Noise Monitoring at N2a & N5a		
23-Jun	24-Jun	25-Jun	26-Jun	27-Jun	28-Jun	29-Jun
				Noise Monitoring at N2a & N5a		
30-Jun						

Central Police Station Conservation and Revitalisation Project
(2nd Floor of Block 3 at Tai Kwun - N2a & Outside of Boundary Wall of Tai Kwun at Chancery Lane - N5a)
Monitoring Schedule for Next Reporting Month - July 2024

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	01-Jul	02-Jul	03-Jul	04-Jul	05-Jul	06-Jul
				Noise Monitoring at N2a & N5a		
07-Jul	08-Jul	09-Jul	10-Jul	11-Jul	12-Jul	13-Jul
			Noise Monitoring at N2a & N5a			
14-Jul	15-Jul	16-Jul	17-Jul	18-Jul	19-Jul	20-Jul
		Noise Monitoring at N2a & N5a				
21-Jul	22-Jul	23-Jul	24-Jul	25-Jul	26-Jul	27-Jul
			Noise Monitoring at N2a & N5a			
28-Jul	29-Jul	30-Jul	31-Jul			
			Noise Monitoring at N2a & N5a			

APPENDIX E CALIBRATION REPORTS FOR CALIBRATORS AND SOUND LEVEL METERS

輝創工程有限公司
Sun Creation Engineering Limited
Calibration & Testing Laboratory

Certificate of Calibration
校正證書

Certificate No. : C240965
證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號 : IC24-0190) Date of Receipt / 收件日期 : 1 February 2024

Description / 儀器名稱	:	Precision Acoustic Calibrator
Manufacturer / 製造商	:	LARSON DAVIS
Model No. / 型號	:	CAL200
Serial No. / 編號	:	10227
Supplied By / 委託者	:	Envirotech Services Co. Room 712, 7/F, My Loft, 9 Hoi Wing Road, Tuen Mun, New Territories, Hong Kong

TEST CONDITIONS / 測試條件

Temperature / 溫度 : (23 ± 2)°C Relative Humidity / 相對濕度 : (50 ± 25)%
Line Voltage / 電壓 : ---

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期 : 22 February 2024

TEST RESULTS / 測試結果

The results apply to the particular unit-under-test only.
The results are detailed in the subsequent page(s).

The test equipment used for calibration are traceable to National Standards via :
- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory
- Hottinger Brüel & Kjær Calibration Laboratory, Denmark
- Agilent Technologies / Keysight Technologies
- Fluke Everett Service Center, USA

Tested By 測試 : K C Lee, Engineer

Certified By 核證 : H C Chan, Engineer

Date of Issue 簽發日期 : 22 February 2024

Sun Creation Engineering Limited – Calibration & Testing Laboratory
c/o 4/F, 1 Hing On Lane, Tuen Mun, New Territories, Hong Kong
輝創工程有限公司 - 校正及檢測實驗所
c/o 香港新界屯門興安里 一號四樓
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輝創工程有限公司
Sun Creation Engineering Limited
Calibration & Testing Laboratory

Certificate of Calibration
校正證書

Certificate No. : C240965
證書編號

1. The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 12 hours before the commencement of the test.

2. The results presented are the mean of 3 measurements at each calibration point.

3. Test equipment :

Equipment ID	Description	Certificate No.
CL130	Universal Counter	C233799
CL281	Multifunction Acoustic Calibrator	CDK2302738
TST150A	Measuring Amplifier	C221750

4. Test procedure : MA100N.

5. Results :

5.1 Sound Level Accuracy

UUT Nominal Value	Measured Value (dB)	Uncertainty of Measured Value (dB)
94 dB, 1 kHz	93.90	± 0.20
114 dB, 1 kHz	113.90	

5.2 Frequency Accuracy

UUT Nominal Value (kHz)	Measured Value (kHz)	Uncertainty of Measured Value (Hz)
1	1.000	± 1

Remark : The uncertainties are for a confidence probability of not less than 95 %.

Note :
Only the original copy or the laboratory's certified true copy is valid.

The values given in this Certificate only relate to the values measured at the time of the test and any uncertainties quoted will not include allowance for the equipment long term drift, variations with environment changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Sun Creation Engineering Limited shall not be liable for any loss or damage resulting from the use of the equipment.

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Certificate of Calibration
校正證書

Certificate No. : C242217
證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號 : IC24-0586) Date of Receipt / 收件日期 : 5 April 2024

Description / 儀器名稱 : Sound Level Meter
Manufacturer / 製造商 : Rion
Model No. / 型號 : NL-52
Serial No. / 編號 : 00331805
Supplied By / 委託者 : Envirotech Services Co.
Room 712, 7/F, My Loft, 9 Hoi Wing Road, Tuen Mun,
New Territories, Hong Kong

TEST CONDITIONS / 測試條件

Temperature / 溫度 : (23 ± 2)°C
Relative Humidity / 相對濕度 : (50 ± 25)%
Line Voltage / 電壓 : ---

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期 : 19 April 2024

TEST RESULTS / 測試結果

The results apply to the particular unit-under-test only.
The results do not exceed specified limits.
These limits refer to manufacturer's published tolerances as requested by the customer.
The results are detailed in the subsequent page(s).

The test equipment used for calibration are traceable to National Standards via :
- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory
- Hottinger Brüel & Kjær Calibration Laboratory, Denmark
- Agilent Technologies / Keysight Technologies
- Fluke Everett Service Center, USA

Tested By 測試 : K C Lee, Engineer

Certified By 核證 : H C Chan, Engineer

Date of Issue 簽發日期 : 19 April 2024

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Certificate of Calibration
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Certificate No. : C242217
證書編號

1. The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 12 hours, and switched on to warm up for over 10 minutes before the commencement of the test.

2. Self-calibration was performed before the test.

3. The results presented are the mean of 3 measurements at each calibration point.

4. Test equipment :

Equipment ID	Description	Certificate No.
CL280	40 MHz Arbitrary Waveform Generator	C240212
CL281	Multifunction Acoustic Calibrator	CDK2302738

5. Test procedure : MA101N.

6. Results :

6.1 Sound Pressure Level

6.1.1 Reference Sound Pressure Level

UUT Setting				Applied Value		UUT Reading (dB)	IEC 61672 Class 1 Limit (dB)
Range (dB)	Function	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)		
30 - 130	L_A	A	Fast	94.00	1	93.5	± 1.1

6.1.2 Linearity

UUT Setting				Applied Value		UUT Reading (dB)
Range (dB)	Function	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)	
30 - 130	L_A	A	Fast	94.00	1	93.5 (Ref.)
				104.00		103.5
				114.00		113.5

IEC 61672 Class 1 Limit : ± 0.6 dB per 10 dB step and ± 1.1 dB for overall different.

6.2 Time Weighting

UUT Setting				Applied Value		UUT Reading (dB)	IEC 61672 Class 1 Limit (dB)
Range (dB)	Function	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)		
30 - 130	L_A	A	Fast	94.00	1	93.5	Ref.
			Slow			93.5	± 0.3

Certificate of Calibration
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6.3 Frequency Weighting

6.3.1 A-Weighting

UUT Setting				Applied Value		UUT Reading (dB)	IEC 61672 Class 1 Limit (dB)
Range (dB)	Function	Frequency Weighting	Time Weighting	Level (dB)	Freq.		
30 - 130	L_A	A	Fast	94.00	63 Hz	67.2	-26.2 ± 1.5
					125 Hz	77.2	-16.1 ± 1.5
					250 Hz	84.8	-8.6 ± 1.4
					500 Hz	90.2	-3.2 ± 1.4
					1 kHz	93.5	Ref.
					2 kHz	94.7	+1.2 ± 1.6
					4 kHz	94.5	+1.0 ± 1.6
					8 kHz	92.5	-1.1 (+2.1 ; -3.1)
					16 kHz	85.6	-6.6 (+3.5 ; -17.0)

6.3.2 C-Weighting

UUT Setting				Applied Value		UUT Reading (dB)	IEC 61672 Class 1 Limit (dB)
Range (dB)	Function	Frequency Weighting	Time Weighting	Level (dB)	Freq.		
30 - 130	L_C	C	Fast	94.00	63 Hz	92.5	-0.8 ± 1.5
					125 Hz	93.3	-0.2 ± 1.5
					250 Hz	93.5	0.0 ± 1.4
					500 Hz	93.5	0.0 ± 1.4
					1 kHz	93.5	Ref.
					2 kHz	93.3	-0.2 ± 1.6
					4 kHz	92.7	-0.8 ± 1.6
					8 kHz	90.6	-3.0 (+2.1 ; -3.1)
					16 kHz	83.6	-8.5 (+3.5 ; -17.0)

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Certificate No. : C242217
證書編號

Remarks : - UUT Microphone Model No. : UC-59 & S/N : 06829

- Mfr's Limit : IEC 61672 Class 1

- Uncertainties of Applied Value :

94 dB	: 63 Hz - 125 Hz	: ± 0.35 dB
	250 Hz - 500 Hz	: ± 0.30 dB
	1 kHz	: ± 0.20 dB
	2 kHz - 4 kHz	: ± 0.35 dB
	8 kHz	: ± 0.45 dB
	16 kHz	: ± 0.70 dB
104 dB	: 1 kHz	: ± 0.10 dB (Ref. 94 dB)
114 dB	: 1 kHz	: ± 0.10 dB (Ref. 94 dB)

- The uncertainties are for a confidence probability of not less than 95 %.

Note :
Only the original copy or the laboratory's certified true copy is valid.

The values given in this Certificate only relate to the values measured at the time of the test and any uncertainties quoted will not include allowance for the equipment long term drift, variations with environment changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Sun Creation Engineering Limited shall not be liable for any loss or damage resulting from the use of the equipment.

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APPENDIX F EVENT/ACTION PLANS FOR NOISE

Annex F Event and Action Plan for Noise

Event	Action			
	Environmental Team (ET)	**Independent Environmental Checker (IEC)**	**Authorised Person (AP)**	**Contractor**
Action Level	1. Notify IEC and Contractor; 2. Carry out investigation; 3. Report the results of investigation to the IEC, AP and Contractor; 4. Discuss with the Contractor and formulate remedial measures; 5. Increase monitoring frequency to check mitigation effectiveness.	1. Review the analysed results submitted by the ET; 2. Review the proposed remedial measures by the Contractor and advise the AP accordingly; 3. Supervise the implementation of remedial measures.	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Require Contractor to proposed remedial measures for the analysed noise problem; 4. Ensure remedial measures are properly implemented.	1. Submit noise mitigation proposals to IEC; 2. Implement noise mitigation proposals.
Limit Level	1. Identify source; 2. Inform IEC and AP; 3. Repeat measurements to confirm findings; 4. Increase monitoring frequency; 5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; 6. Inform IEC, AP and EPD the causes and actions taken for the exceedances; 7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and AP informed of the results; 8. If exceedance stops, cease additional monitoring.	1. Discuss amongst AP, ET, and Contractor on the potential remedial actions; 2. Review Contractors remedial actions whenever necessary to assure their effectiveness and advise the AP accordingly; 3. Supervise the implementation of remedial measures.	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Require Contractor to propose remedial measures for the analysed noise problem; 4. Ensure remedial measures properly implemented; 5. If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated.	1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC within 3 working days of notification; 3. Implement the agreed proposals; 4. Resubmit proposals if problem still not under control; 5. Stop the relevant portion of works as determined by the AP until the exceedance is abated.

APPENDIX G SUMMARY OF IMPLEMENTATION STATUS

Appendix G Implementation Schedule for Environmental Protection Measures

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
Cultural Heritage					
S3.9.1	S3.2.6	Subject to the outcome of the archaeological investigation, if archaeological deposits are identified to be impacted by the proposed development, appropriate mitigation measures will be recommended and agreed with AMO.	In accordance with the recommendations in the Archaeological Action Plan (AAP) issued on 21 Dec 11 and approved on 30 Dec 11 by AMO	During detailed design and construction	N/A – Irrelevant to the current scope of construction works in Block 4.
S3.9.2	S3.3.1	*Vibration Monitoring* A baseline condition survey and baseline vibration impact will be conducted by a specialist for the approval of AMO and Buildings Department prior to commencement of the construction works to define the vibration control limits and recommend a vibration monitoring proposal for the concerned historic buildings and structures in and outside CPS for AMO's prior approval before commencement of the construction works.	Historic buildings and structures in CPS, the granite walls at Old Bailey Street and the proposed Grade 3 historic building (No. 20 Hollywood Road)	During detailed design and construction	N/A – Irrelevant to the current scope of construction works in Block 4.
S3.9.2	S3.3.3	*Compliance of the Approved Measures and Auditing* Staff training by an experience building conservation expert or relevant competent person(s) in the environmental team of the project should be provided to the on-site staffs, contractors, sub-contractors and workers of the project before commencement of works to ensure their full understanding of the approved protection schedule, restoration proposal and work methodologies related to cultural heritage, and their respective responsibilities in the implementation of the environmental protection measures. Regular site audit for cultural heritage should be carried out in the construction phase by an experience building conservation expert in the environmental team ("the Heritage Checker") to investigate the site practice of the contractors and workers and their compliance of the approved work methodologies with respect of conservation works, mitigations for cultural heritage and any related works. A detailed	Whole site	Prior to and during construction	√

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
		proposal of the regular audit such as methodology (e.g. performance and monitoring indicators, control tools, frequency of the audit, etc.) and the conservation professionals to be engaged should be agreed with AMO prior to work commencement. The Heritage Checker shall also attend the regular site meetings with AMO and report the compliance and effectiveness of the mitigation measures for cultural heritage.			
S3.9.3	S3.3.4	*Archival Recording* An archival recording should be conducted to provide a detailed reference for the update of the Conservation Management Plan and inventory of historical features of the monuments, the preparation of as-built drawings showing the condition of the historic buildings and structures after the completion of the construction works. These archival records will be a reference source for future maintenance of the character defining elements, conservation of the monuments, interpretation and conservation education of the Site. The archival recording shall include but not limit to the video and photographic recording on the detailed process of the repair trials for different kinds of historical features, conservation works of character defining elements and historic fabrics of the monuments, and a written records of any new changes to the detailed design made in the construction phase illustrate with photos and drawings. A full set of the archives records (including both hard and soft copies) should be submitted to the AMO for approval after the work completion for record purpose. Any new findings related to the conservation of built heritage in the Site identified during the detailed design stage and construction phases shall be properly recorded in details for notification to the AMO and update of the Conservation Management Plan.	Whole Site	During detailed design, construction and prior to operation	√ – Archival recording has been conducted throughout the construction phase and will be submitted at later stage.
S3.7.3	-	*General Construction Methods* Prior to the commencement of the modification/refurbishment works at an existing building or structure (e.g. masonry walls near the Old Bailey Wing) , a site survey will be carried out by the design team, and all building dimensions and levels of the building/structure shown will be	Whole site	During construction	√

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
		checked and confirmed by the contractor. Non-percussive piling methods will be adopted for the construction of the foundation for the new buildings. Protective and precaution measures to the existing buildings and structure adjacent to the work area (including the proposed Grade 3 historic building (No. 20 Hollywood road) and the granite boundary walls between the Ablutions Block of the police station (building no. 08) and the General Office of the prison area (building no. 18) which is adjacent to the new construction of the Old Bailey Wing and for an old granite walls at Old Bailey Street within 15m from the new construction) shall be provided to avoid damage to the existing features and to safeguard the structural integrity during the course of construction. Small scale handheld pneumatic tools with minimal vibration impact to the existing buildings/ structures are selected so as to have a better logistic and handling at the existing buildings and structures, which usually have only narrow working areas. In cases of the local demolition of structural elements, demountable platforms will be erected to temporarily support the affected area and divert the loading from above to avoid instability and create excessive cracking and settlement of the building/structure.			
S3.7.1 & 3.7.2	-	Implementation and update of the Conservation Management Plan (CMP). Any new findings related to the conservation of the built heritage in the site identified during the detailed design and construction stage shall be properly recorded in details for the notification to the AMO and update in the CMP. After the construction, a cartographic and photographic recording on the restored historic buildings, historic features and the site shall be conducted and the following records shall be included into the CMP as appendices for updating and record purpose: • one set of measured drawings and photographic records showing the as-built condition of historic buildings and structures; and • an updated inventory list of the historic features together with the cross referenced location plans and photo records. One set of updated CMP shall be submitted to the AMO for approval before the operation stage of the project.	Whole site	During detailed design, construction, post-construction and operation	√ - CMP (last updated in May 2019), which was submitted to AMO, implemented during the reporting month.

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
Landscape & Visual					
S4.7.27	-	*In-situ Tree Protection - Cordon Zone (CZ)* Cordon off each tree along its drip line (below the crown) with a chain-link fencing of 2.5 m height with padlocked gate, allowing limited access to area only to authorized persons. The base of the perimeter fence will be sealed up to 30 cm height to ensure that no construction drainage water will enter. If grouting is to be conducted less than 5 m from the edge of the CZ, a waterproof membrane will be installed below the ground to a depth of 1.5 m on the outer edge of the CZ to prevent the subsurface lateral movement of contaminated construction wastewater from intruding the soil inside the CZ.	Whole site	During construction	N/A – Irrelevant to the current scope of construction works in Block 4.
S4.7.2	-	*In-situ Tree Protection - Advanced & Phased Root Pruning* All edges of the CZ that will be affected by excavation will undergo root pruning by a trained arborist or horticulturist, in advance of the earth work. The entire affected length of the CZ, plus 3 m additional length at both ends, shall be designated as the root pruning segment (RPS). The require trench will be opened manually in the RPS, be 1.5 m deep and 1 m wide, and closed on the same day after pruning with a good soil mix. All roots with a diameter >20 mm encountered in the course of trench opening shall be cut flushed with the inner wall of the trench. If the RPS exceeds one-quarter of the CZ circumference, the root pruning should be conducted in two stages. Each phase will tackle half of the RPS length. After the first phase, the tree will be allowed to recuperate for not less than four months before the second phase root pruning is conducted. The RPS shall be protected by sheet piles along the outer edge. The rig that installs the piles and the associated operations shall not intrude into the CZ or injure the protected tree.	Whole site	During construction	N/A – Irrelevant to the current scope of construction works in Block 4.
S4.7.2	-	*In-situ Tree Protection - Foliage cleansing system* A sprinkler cleansing system will be installed either in the crown of the tree or at a suitable location on an adjacent building to provide the	Whole site	During construction	N/A – Irrelevant to the current scope of construction works in Block 4.

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
		means to wash the foliage of the accumulated dust when necessary, particularly in the dry season.			
S4.7.2	S4	*In-situ Tree Protection - Monthly inspection* Monthly inspection of affected trees by an experienced and appropriately trained arborist or horticulturist using Form 1 – Tree Group Inspection Form and Form 2 – Tree Risk Assessment Form developed by Development Bureau (*http://www.trees.gov.hk/en/doc/TRAGuideline_July2010version_combine.pdf*) or a form designed by a tree expert and approved by Tree Management Office. All irregularities that deviate from the recommended tree protection measures, or could impose deleterious impacts on the protected trees, must be reported to the authorized person or the tree expert within two days.	Whole site	During construction	N/A – Irrelevant to the current scope of construction works in Block 4.
S4.7.2	-	*Light Control* Control of night-time lighting shall be implemented to minimise impact to adjacent VSRs.	Whole site	During construction and operation	√
S4.7.2	S4	*Compensatory Tree Planting* A new planting site has been identified for compensatory tree planting in the Parade Ground. The planting is to compensate for felling of T10 and T10a. The existing tree site will be enlarged to become a wide tree strip to accommodate the compensatory trees. The entire strip of land that accommodates T1 to T4 should be revamped to improve the soil condition for future tree growth. The new tree strip should be 4 m wide and covered by porous unit pavers to permit the entry of rain and irrigation water and air exchange between the soil and the atmosphere. The unit pavers should be supported by small columns to create a vault-like structure so as to avoid compaction of the underlying soil due to pedestrian trampling. The unit pavers will be movable to provide access to the soil underneath so that fertilizers and conditioners could be added on a	At identified compensatory tree planting location at the Parade Ground	During detailed design and construction	N/A – Irrelevant to the current scope of construction works in Block 4.

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
		regular basis. The air conditioner unit currently located near the proposed planting site should also be removed. This new tree planting site should also be provided with proper irrigation. Pursuant to the "Environment, Transport and Works Bureau Technical Circular (Works) No. 3/2006 Tree Preservation", the compensation ratio should preferably be 1:1 according to trunk girth. An aggregate DBH of the new trees would be 60cm, the rate of compensation is beyond the requirements The replacement trees should be planted in accordance with the requirement of the landscape proposal approved by the Planning Department.			
S4.7.2	S4	*Existing Granite Revetment Wall* The inner stone face along the southern wall of the Site shall be preserved to its original historical appearance.	Inner Southern Wall	During detailed design and construction	N/A – Irrelevant to the current scope of construction works in Block 4.
S4.7.2	-	*New Custom Paving* New, Patterned, High Quality, Concrete Custom Pavers should replace most of the existing paving in the open spaces.	Whole site	During detailed design and construction	N/A – Irrelevant to the current scope of construction works in Block 4.
S4.7.2	S4	*In-situ Tree Protection - Quarterly inspection* Quarterly Inspection of affected and newly planted trees by an experienced and appropriately trained arborist or horticulturist using Form 1 – Tree Group Inspection Form and Form 2 – Tree Risk Assessment Form developed by Development Bureau (*http://www.trees.gov.hk/en/doc/TRAGuideline_July2010version_combine.pdf*) or a form designed by a tree expert and approved by Tree Management Office for a period of 12 months after construction.	Whole site	During post construction and operation	N/A – Irrelevant to the current scope of construction works in Block 4.
Noise					
S5.9	-	The following site practices should be followed during the construction of the Project:	Whole Site	During	√

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
		• Only well-maintained plant will be operated on-site and plant will be serviced regularly during the construction phase; • Silencers or mufflers on construction equipment will be utilised and will be properly maintained during the construction phase; • Mobile plant, if any, will be sited as far away from NSRs as possible; • Machines and plant (such as trucks) that may be in intermittent use will be shut down between work periods or will be throttled down to a minimum; • Plant known to emit noise strongly in one direction will, wherever possible, be orientated so that the noise is directed away from the nearby NSRs; and • Material stockpiles and other structures will be effectively utilised, wherever practicable, in screening noise from on-site construction activities.		construction	
S5.9	-	Noise insulating sheet would be adopted for certain PME (eg drill rig, excavator for demolition of existing structures, etc). The noise insulating sheet should be deployed such that there would be no opening or gaps on the joints.	Whole Site	During construction	N/A – Not observed during the reporting period.
S5.9	-	Use temporary noise barriers to mitigate the noise impact arising from the construction works, particularly for low-rise NSRs. Movable noise barriers of 3 m in height with skid footing should be used and located within a few metres of stationary plant and mobile plant such that the line of sight to the NSR is blocked by the barriers. The length of the barrier should be at least five times greater than its height. The noise barrier material should have a superficial surface density of at least 7 kg m^{-2} and have no openings or gaps.	Whole Site	During construction	N/A – Not observed during the reporting period.
S5.9	-	Use quiet PME as far as practicable to mitigate the construction noise impact.	Whole Site	During construction	N/A – Not observed during the reporting period.
S5.9	-	Scheduling of construction activities with identified grouping of PMEs.	Whole Site	During construction	N/A – Not observed during the reporting period.
S5.11	S5	Weekly noise monitoring will be undertaken at the representative NSRs (i.e. 2nd Floor of Block 3 at Tai Kwun (N2a) and Outside of Boundary Wall of Tai Kwun at Chancery Lane (N5a)). Monthly site audits will	Whole Site	During construction	√

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
		be conducted to ensure that the recommended mitigation measures are properly implemented during the construction stage.			
Air Quality					
S6.8.1	-	Dust control measures stipulated in the *Air Pollution Control (Construction Dust) Regulation* will be implemented during the construction phase to control the potential fugitive dust emissions.	Whole Site	During construction	√
S6.8.1	-	In particular: Temporary stockpiles of dusty materials will be either covered entirely by impervious sheets; placed in an area sheltered on the top and three sides; or sprayed with water to maintain the entire surface wet at all the time.	Whole Site	During construction	N/A – Not observed during the reporting period.
S6.8.1	-	Impervious sheet will be provided for skip hoist for material transport.	Whole Site	During construction	N/A – Not observed during the reporting period.
S6.8.1	-	Vehicle washing facilities will be provided at the designated vehicle exit points.	Whole Site	During construction	N/A – Irrelevant to the current scope of construction works in Block 4.
S6.8.1	-	Every vehicle will be washed to remove any dusty materials from its chassis and wheels immediately before leaving the worksite.	Whole Site	During construction	N/A – Irrelevant to the current scope of construction works in Block 4.
S6.8.1	-	Road sections between vehicle-wash areas and vehicular entrances will be paved.	Whole Site	During construction	N/A – Irrelevant to the current scope of construction works in Block 4.
S6.8.1	-	The load carried by the trucks will be covered entirely to ensure no dust emission from the vehicles.	Whole Site	During construction	N/A – Not observed during the reporting period.
S6.8.1	-	Hoarding of not less than 2.4m high from ground level will be provided along the Project Site boundary adjoining a road where the new buildings (Old Bailey Wing and Arbuthnot Wing) will be constructed.	Whole Site	During construction	√
S6.8.1	-	Stockpiles of more than 20 bags of cement, dry pulverised fuel ash and dusty construction materials will be covered entirely by impervious sheeting sheltered on top and 3-sides.	Whole Site	During construction	√
S6.8.1	-	An effective dust screen will be provided to enclose scaffolding, if required, from the ground floor level of building for construction of superstructure of the new buildings.	Whole Site	During construction	√

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
S6.8.1	-	Impervious dust screen or sheeting will be implemented for demolition of structures and renovation of outer surfaces of structures that abuts or fronts open area accessible to the public to no less than 1m higher than the highest level of the structure being demolished.	Whole Site	During construction	√
S6.8.1	-	The area at which demolition work takes place will be sprayed with water or dust suppression chemical immediately prior to, during and immediately after the demolition activity.	Area for Demolition Work	During construction	N/A – Not observed during the reporting period.
S6.8.1	-	ULSD will be used for all construction plant on-site.	Whole Site	During construction	N/A – Not observed during the reporting period.
S6.8.1	-	The engine of the construction equipment or trucks during idling will be switched off.	Whole Site	During construction	√
S6.8.1	-	Site practices such as regular maintenance and checking of construction equipment deployed on-site will be conducted to avoid any black smoke emissions and to minimise gaseous emissions.	Whole Site	During construction	√
S6.10	S3.2	Monthly environmental site audits to ensure that appropriate dust control measures are properly implemented and good construction site practices are adopted throughout the construction period.	Whole Site	During construction	√
Water Quality					
S7.6	-	Channels, earth bunds or sand bag barriers will be provided on site to direct stormwater to silt removal facilities. The design of silt removal facilities will make reference to the guidelines in *Appendix A1* of *ProPECC PN 1/94*. All drainage facilities and erosion and sediment control structures will be inspected on a regular basis and maintained to confirm proper and efficient operation at all times and particularly during rainstorms. Deposited silt and grit will be removed regularly.	Whole Site	During construction	√
S7.6	-	All drainage facilities and erosion and sediment control structures will be regularly inspected and maintained to ensure proper and efficient operation at all times and particularly following rainstorms. Deposited silt and grit will be removed regularly and disposed of.	Whole Site	During construction	√

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
S7.6	-	Measures will be taken to reduce the ingress of stormwater into excavation areas. If the excavation of the concrete foundation is to be carried out in wet season, they will be dug and backfilled in short sections wherever practicable. Water pumped out from trenches or foundation excavations will be discharged into stormwater drains via silt removal facilities.	Whole Site	During construction	N/A – Irrelevant to the current scope of construction works in Block 4.
S7.6	-	Open stockpiles of excavated and demolition materials will be covered with tarpaulin or similar fabric during rainstorms. Measures will be taken to prevent the washing away of residues, chemicals or debris into any drainage system.	Whole Site	During construction	√
S7.6	-	Manholes (including newly constructed ones) will always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris being washed into the drainage system.	Whole Site	During construction	√
S7.6	-	Precautions will be taken when a rainstorm is imminent or forecasted, and actions to be taken during or after rainstorms are summarised in Appendix A2 of *ProPECC PN 1/94*. Particular attention will be paid to the control of silty surface runoff during storm events.	Whole Site	During construction	√
S7.6	-	All temporary and permanent drainage pipes and culverts provided to facilitate runoff discharge will be adequately designed for the controlled release of stormwater flows. All sediment traps will be regularly cleaned and maintained. The temporary diverted drainage will be reinstated to the original condition when the construction work has finished or the temporary diversion is no longer required.	Whole Site	During construction	√
S7.6	-	Vehicle and plant servicing areas, vehicle washing bays and lubrication bays will, as far as possible, be located within roofed areas. The drainage in these covered areas will be connected to foul sewers via a petrol interceptor.	Whole Site	During construction	N/A – Not observed during the reporting period.
S7.6	-	Oil leakage or spillage will be contained and cleaned up immediately. Waste oil will be collected and stored for recycling or disposal.	Whole Site	During construction	N/A – Not observed during the reporting period.
S7.6	-	Waste streams classifiable as chemical wastes will be properly stored, collected and treated.	Whole Site	During construction	N/A – Not observed during the reporting period.
S7.6	-	All fuel tanks and chemical storage areas will be provided with locks and be sited on paved areas.	Whole Site	During construction	N/A – Not observed during the reporting period.

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
S7.6	-	The storage areas will be surrounded by bunds with a capacity equal to 110% of the storage capacity of the largest tank to prevent spilled oil, fuel and chemicals from reaching the receiving waters.	Whole Site	During construction	N/A – Not observed during the reporting period.
S7.6	-	The Contractors will prepare guidelines and procedures for immediate clean-up actions following any spillages of oil, fuel or chemicals.	Whole Site	During construction	√
S7.6	-	Surface runoff from bunded areas will pass through oil/grease traps prior to discharge to the stormwater system	Whole Site	During construction	N/A – Not observed during the reporting period.
S7.6	-	The stormwater discharge from the site will be monitored as part of the routine monitoring under the WPCO licence, if applicable.	Whole Site	During construction	N/A – Not observed during the reporting period.
S7.6	-	The existing toilet facilities of the CPS will be available to the construction workforce. The sewage will be discharged to the public sewer.	Whole Site	During construction	√
S7.8	S5.2	Monthly site audits of the works areas will be carried out during the construction phase to monitor the environmental performance of the Project and to enable prompt actions to rectify any malpractice which may give rise to water pollution problem.	Whole Site	During construction	√
Waste Management					
S8.5	S6.3.1 & Table 6.1	*General* The Contractor shall apply for and obtain all the necessary waste disposal permits or licences are obtained prior to the commencement of the construction works.	Whole Site	During construction	√
S8.5	-	*Management of Waste Disposal* The construction contractor will open a billing account with the EPD. Every construction waste or public fill load to be transferred to the Government waste disposal facilities such as public fill reception facilities, sorting facilities, landfills will require a valid "chit" which contains the information of the account holder to facilitate waste transaction recording and billing to the waste producer.	Whole Site	During construction	√
S8.5	S6.2	A trip-ticket system will also be established to monitor the disposal of construction waste at landfill and to control fly-tipping. The trip-ticket	Whole Site	During construction	√

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
		system will be included as one of the contractual requirements and implemented by the contractor.			
S8.5	S6 & Table 6.1	A recording system for the amount of wastes generated/recycled and disposed of will be established during the construction phase.	Whole Site	During construction	√
S8.5	S6.3	*Reduction of Construction Waste Generation* C&D material will be segregated on-site into public fill and construction waste and stored in different containers or skips to facilitate reuse of the public fill and proper disposal of the construction waste. Specific areas of the work site will be designated for such segregation and storage if immediate use is not practicable.	Whole Site	During construction	√
S8.5	S6	*Chemical Waste* The contractor will register as a chemical waste producer with the EPD.	Whole Site	During construction and operation	√
S8.5	S6	Containers used for storage of chemical waste shall: • Be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition, and securely closed; • Have a capacity of less than 450 L unless the specifications have been approved by the EPD; and • Display a label in English and Chinese in accordance with instructions prescribed in *Schedule 2* of the *Regulations*.	Whole Site	During construction and operation	N/A – Not observed during the reporting period.
S8.5	S6	Storage areas for chemical waste shall: • Be clearly labelled and used solely for the storage of chemical waste; • Be enclosed on at least 3 sides; • Have an impermeable floor and bunding, of capacity to accommodate 110% of the volume of the largest container or 20% by volume of the chemical waste stored in that area, whichever is the greatest; • Have adequate ventilation; • Be covered to prevent rainfall entering (water collected within the bund must be tested and disposed of as chemical waste, if necessary); and	Whole Site	During construction and operation	N/A – Not observed during the reporting period.

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
		• Be arranged so that incompatible materials are appropriately separated.			
S8.5	S6	A licensed contractor shall be employed to collect chemical waste for delivery to a licensed treatment facility.	Chemical Waste Treatment Centre at Tsing Yi	During construction and operation	√
S8.5	S6 & Table 6.1	*General Refuse* General refuse will be stored in enclosed bins separately from construction and chemical wastes. The general refuse will be delivered to the transfer station, separately from construction and chemical wastes, on a daily basis to reduce odour, pest and litter impacts.	Whole site	During construction	√
S8.5	S6	Recycling bins will be provided at strategic locations to facilitate recovery of aluminium can and waste paper from the Site. Materials recovered will be sold for recycling.	Whole site	During construction and operation	N/A – Not observed during the reporting period.
S8.5	S6	*Staff Training* At the commencement of the construction works, training will be provided to workers on the concepts of site cleanliness and on appropriate waste management procedures, including waste reduction, reuse and recycling.	Whole site	Commencement of construction	√
S8.7	S6.1 & 6.3	Monthly audits of the waste management practices will be carried out during the construction phases to determine if wastes are being managed in accordance with the recommended good site practices. The audits will examine all aspects of waste management including waste generation, storage, recycling, transport and disposal.	Whole site	During construction	√

Remark:

√ Compliance of Mitigation Measures

<> Compliance of Mitigation but need improvement

x Non-compliance of Mitigation Measures

▲ Non-compliance of Mitigation Measures but rectified by the Contractor

Δ Deficiency of Mitigation Measures but rectified by the Contractor

N/A Not Applicable in Reporting Period

APPENDIX H NOISE MONITORING RESULTS

Appendix H Noise Monitoring Results

Daytime Noise Monitoring Results

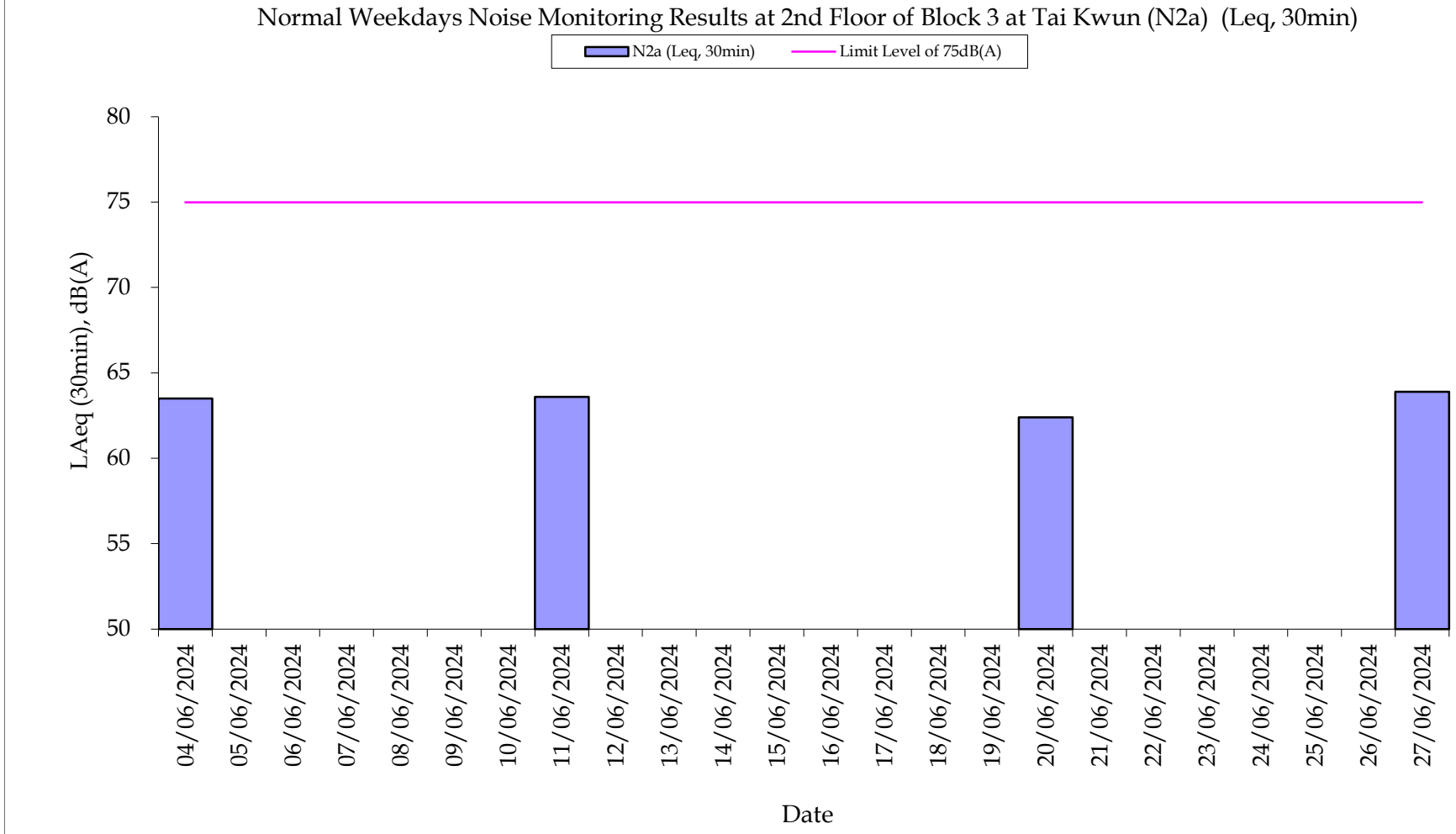
2nd Floor of Block 3 at Tai Kwun (N2a)

Date	Start Time	End Time	Weather	Noise level (dB(A)), 30 min			Major Construction Noise Source(s) Observed	Other Noise Source(s) Observed	Remarks	Wind Speed (m/s)	Noise Meter Model / ID	Calibrator Model / ID
				Leq	L10	L90						
04-Jun-24	9:49	10:19	Cloudy	63.5	65.2	61.1	Operation	-	-	0.2	Rion NL-52 (S/N 00331805)	LARSON DAVIS CAL200 (S/N 10227)
11-Jun-24	8:53	9:23	Fine	63.6	65.7	61.5	Operation	-	-	0.3	Rion NL-52 (S/N 00331805)	LARSON DAVIS CAL200 (S/N 10227)
20-Jun-24	14:17	14:47	Fine	62.4	63.8	61.0	Operation	-	-	0.1	Rion NL-52 (S/N 00331805)	LARSON DAVIS CAL200 (S/N 10227)
27-Jun-24	14:05	14:35	Sunny	63.9	65.6	61.5	Operation	-	-	0.1	Rion NL-52 (S/N 00331805)	LARSON DAVIS CAL200 (S/N 10227)
			Min.	**62.4**								
			Max.	**63.9**								

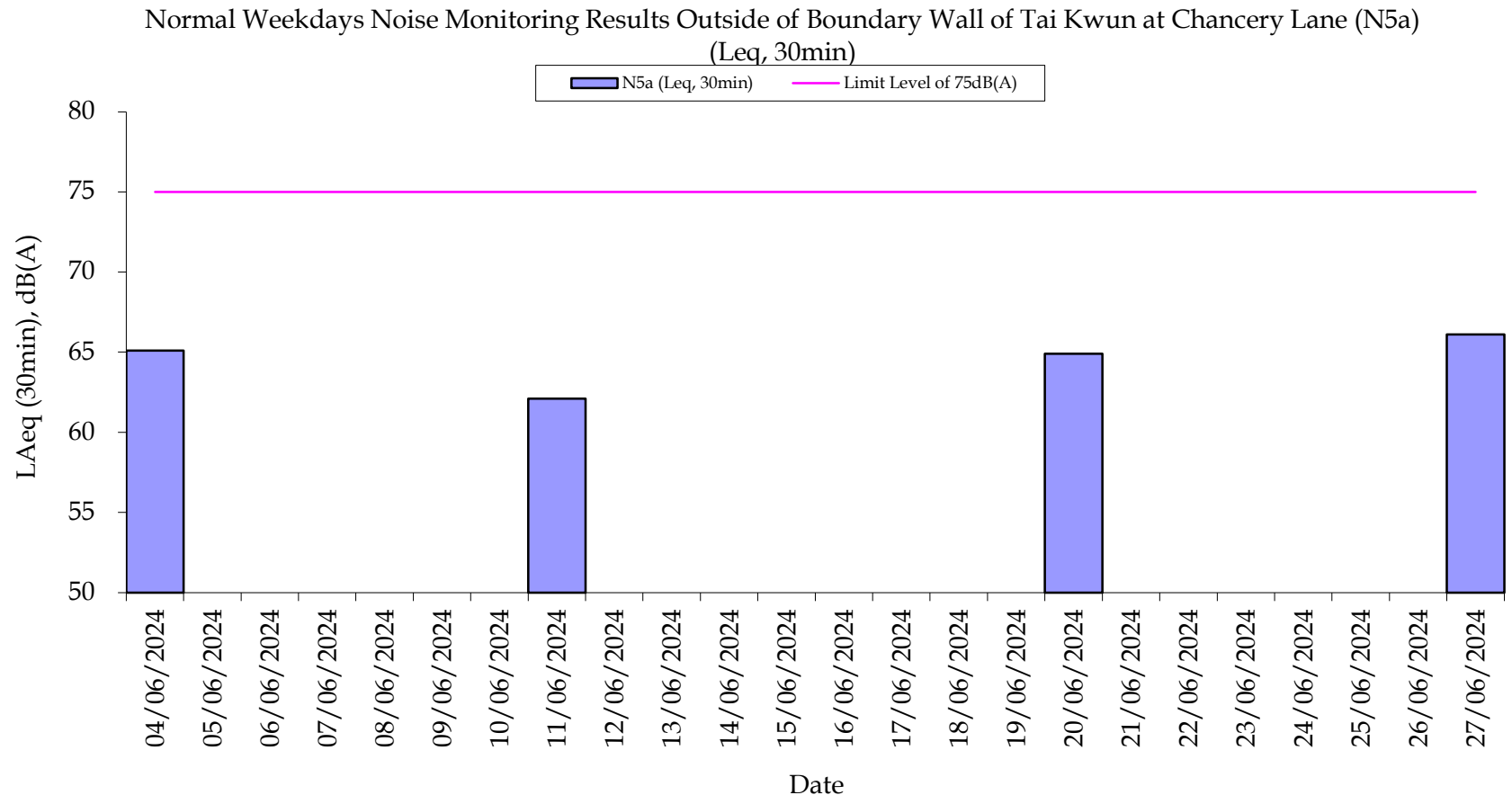
Outside of Boundary Wall of Tai Kwun at Chancery Lane (N5a) [(a)]

Date	Start Time	End Time	Weather	Noise level (dB(A)), 30 min			Major Construction Noise Source(s) Observed	Other Noise Source(s) Observed	Remarks	Wind Speed (m/s)	Noise Meter Model / ID	Calibrator Model / ID
				Leq	L10	L90						
04-Jun-24	9:10	9:40	Cloudy	65.1	66.9	62.1	Operation	Noise from construction site nearby	-	0.3	Rion NL-52 (S/N 00331805)	LARSON DAVIS CAL200 (S/N 10227)
11-Jun-24	8:15	8:45	Fine	62.1	63.7	60.3	Operation	Noise from construction site nearby	-	0.4	Rion NL-52 (S/N 00331805)	LARSON DAVIS CAL200 (S/N 10227)
20-Jun-24	14:55	15:25	Fine	64.9	66.9	60.9	Operation	Noise from construction site nearby	-	0.2	Rion NL-52 (S/N 00331805)	LARSON DAVIS CAL200 (S/N 10227)
27-Jun-24	14:44	15:14	Sunny	66.1	68.5	63.9	Operation	Noise from construction site nearby	-	0.2	Rion NL-52 (S/N 00331805)	LARSON DAVIS CAL200 (S/N 10227)
			Min.	**62.1**								
			Max.	**66.1**								

Note:
(a) Correction of +3dB(A) was added to the monitoring data for free-field measurement.



Remark:
- 75dB(A) was adopted as the Limit Level during normal weekdays in the reporting period



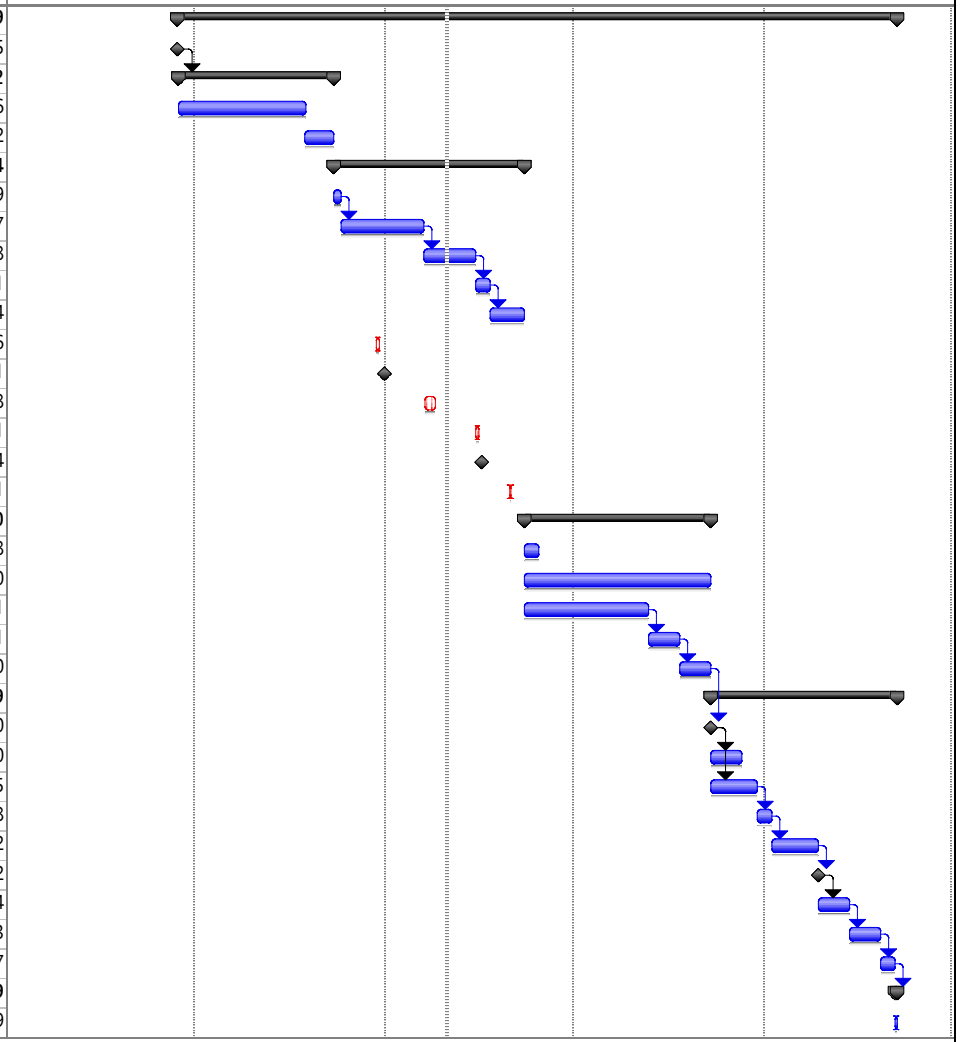
Remark:
- 75dB(A) was adopted as the Limit Level during normal weekdays in the reporting period.
- Correction of +3dB(A) was added to the monitroing data for free-field measurement.

APPENDIX I CONSTRUCTION PROGRAMME OF THE PROJECT

Master Programme for
A & A Works for Block 4
Central Police Station
Shun Yip Construction Co., Ltd.

Rev. C (29-2-2024)

識別碼	Task Name	工期	開始時間	完成時間
1	**Contract Duration**	**695 days**	**2023/6/15**	**2025/5/9**
2	Start	0 days	2023/6/15	2023/6/15
3	**Section 1, Preparatory Works**	**150 days**	**2023/6/16**	**2023/11/12**
4	Section 1 Works (Completed)	123 days	2023/6/16	2023/10/16
5	Consent Application	28 days	2023/10/16	2023/11/12
6	**Section 2, Stage 1 (Demolition Works to 300mm above 1/F Level)**	**184 days**	**2023/11/13**	**2024/5/14**
7	Submission of BA10	7 days	2023/11/13	2023/11/19
8	Removal of Timber Roof (Zone A to F)	80 days	2023/11/20	2024/2/7
9	Removal of W1 to W6 (2/F Wall)	50 days	2024/2/8	2024/3/28
10	Removal of F1 to F3 (1/F Floor)	14 days	2024/3/29	2024/4/11
11	Removal of W1 to W6 (300mm above 1/F Floor)	33 days	2024/4/12	2024/5/14
12	Chrismas 24/12/23 to 26/12/23	3 days	2023/12/24	2023/12/26
13	New Year 1/1/24	0 days	2024/1/1	2024/1/1
14	Chinese New Year 9/2/24 to 18/2/24	10 days	2024/2/9	2024/2/18
15	Easter 29/3/24 to 31/3/24	3 days	2024/3/29	2024/3/31
16	Ching Ming 4/4/24	0 days	2024/4/4	2024/4/4
17	Labour Day 1/5/24	1 day	2024/5/1	2024/5/1
18	**Section 3, Stage II & III (Engineer Assessment)**	**180 days**	**2024/5/15**	**2024/11/10**
19	Demobilization of Mobile Crane	14 days	2024/5/15	2024/5/28
20	Site Maintenance	180 days	2024/5/15	2024/11/10
21	Material testing and investigation	120 days	2024/5/15	2024/9/11
22	Demolitioin Amemnet	30 days	2024/9/12	2024/10/11
23	Demolition Consent Submission	30 days	2024/10/12	2024/11/10
24	**Section 3, Stage IV and V (Final Works)**	**180 days**	**2024/11/10**	**2025/5/9**
25	Start	0 days	2024/11/10	2024/11/10
26	Protect or divert existing utilities which obstruct upgrading	30 days	2024/11/11	2024/12/10
27	Remove 1/F to final wall/column level	45 days	2024/11/11	2024/12/25
28	Removal of steel catch fan	14 days	2024/12/26	2025/1/8
29	Provide temporary steel supports for final height wall/column	45 days	2025/1/9	2025/2/22
30	Submission of Form BA14	0 days	2025/2/22	2025/2/22
31	Remove mass concrete footing (excavation or channel planking)	30 days	2025/2/23	2025/3/24
32	Upgrading the existing R52 and R22 retaining wall	30 days	2025/3/25	2025/4/23
33	Provide protective steel balustrades	14 days	2025/4/24	2025/5/7
34	**Site clearance**	**2 days**	**2025/5/8**	**2025/5/9**
35	Handover	2 days	2025/5/8	2025/5/9



SHUN YIP CONSTRUCTION CO., LTD
Date: 2024/2/29

Task | Progress | Summary | External Tasks | Deadline
Split | Milestone | Project Summary | External Milestone

APPENDIX J NOT USED

APPENDIX K ENVIRONMENTAL COMPLAINT, ENQUIRY, ENVIRONMENTAL SUMMONS AND PROSECUTION LOG

Appendix K Cumulative Complaint and Summons/Prosecutions Log

Reporting Month	Number of Complaints in Reporting Month	Number of Summons/Prosecutions in Reporting Month
November 2011	0	0
December 2011	0	0
January 2012	0	0
February 2012	0	0
March 2012	4	0
April 2012	0	0
May 2012	0	0
June 2012	2	0
July 2012	1	0
August 2012	0	0
September 2012	0	0
October 2012	0	0
November 2012	2	0
December 2012	0	0
January 2013	0	0
February 2013	1	0
March 2013	1	0
April 2013	0	0

Reporting Month	Number of Complaints in Reporting Month	Number of Summons/Prosecutions in Reporting Month
May 2013	0	0
June 2013	0	0
July 2013	0	0
August 2013	0	0
September 2013	0	0
October 2013	0	0
November 2013	0	0
December 2013	0	0
January 2014	2	0
February 2014	1	0
March 2014	1	0
April 2014	1	0
May 2014	0	0
June 2014	0	0
July 2014	2	0
August 2014	3	0
September 2014	2	0
October 2014	1	0
November 2014	0	0

Reporting Month	Number of Complaints in Reporting Month	Number of Summons/Prosecutions in Reporting Month
December 2014	0	0
January 2015	0	0
February 2015	1	0
March 2015	1	0
April 2015	0	0
May 2015	1	0
June 2015	1	0
July 2015	1	0
August 2015	1	0
September 2015	0	0
October 2015	0	0
November 2015	0	0
December 2015	0	0
January 2016	0	0
February 2016	0	0
March 2016	1	0
April 2016	0	0
May 2016	0	0
June 2016	0	0

Reporting Month	Number of Complaints in Reporting Month	Number of Summons/Prosecutions in Reporting Month
July 2016	0	0
August 2016	0	0
September 2016	1	0
October 2016	0	0
November 2016	0	0
December 2016	0	0
January 2017	0	0
February 2017	0	0
March 2017	0	0
April 2017	0	0
May 2017	0	0
June 2017	0	0
July 2017	0	0
August 2017	0	0
September 2017	0	0
October 2017	0	0
November 2017	0	0
December 2017	1	0
January 2018	1	0

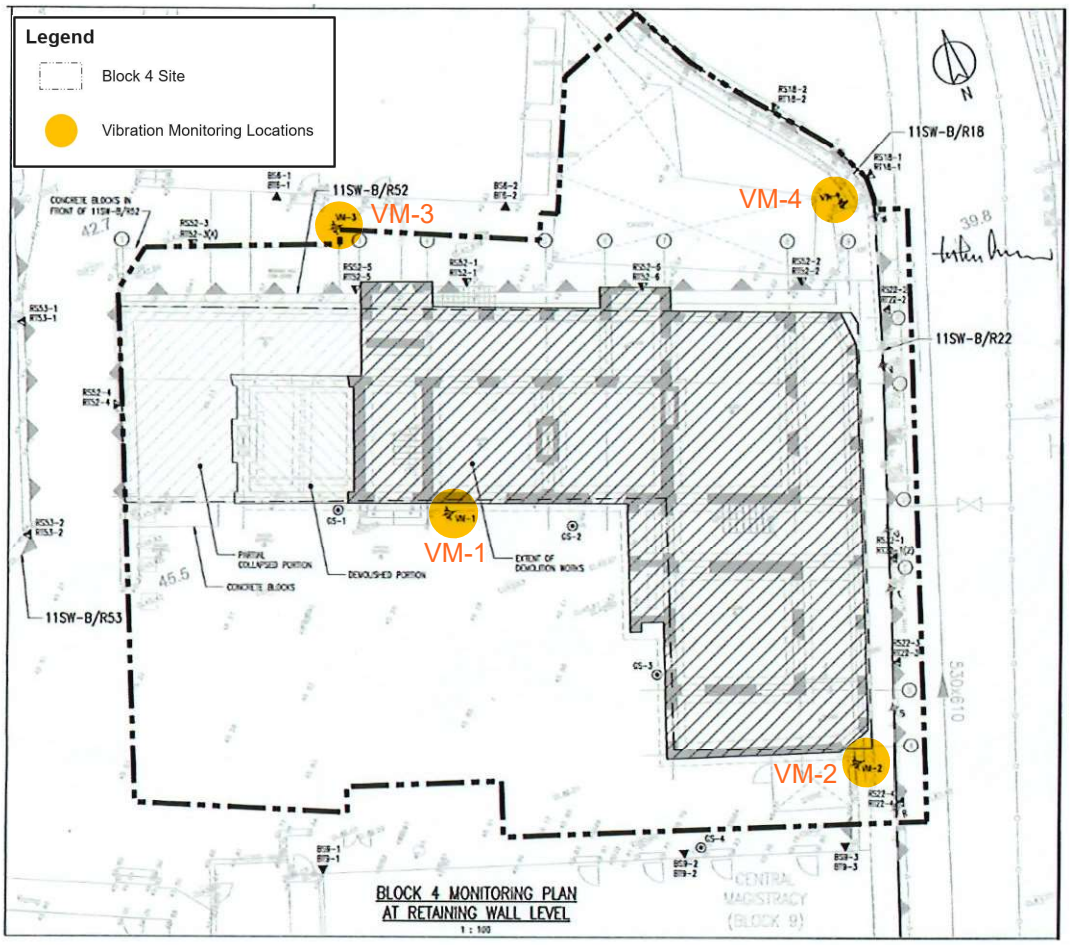
Reporting Month	Number of Complaints in Reporting Month	Number of Summons/Prosecutions in Reporting Month
February 2018	0	0
March 2018	1	0
April 2018	0	0
May 2018	0	0
June 2020	0	0
July 2020	0	0
August 2020	0	0
September 2020	0	0
October 2020	0	0
November 2020	0	0
December 2020	0	0
January 2021	0	0
June 2023	0	0
July 2023	0	0
August 2023	0	0
September 2023	0	0
October 2023	0	0
November 2023	0	0
December 2023	0	0

Reporting Month	Number of Complaints in Reporting Month	Number of Summons/Prosecutions in Reporting Month
January 2024	0	0
February 2024	0	0
March 2024	0	0
April 2024	0	0
May 2024	0	0
June 2024	0	0
Overall Total	**35**	**0**

Note:

Besides Block 4 Married Inspector Quarters and Deputy Superintendent House, all construction works of the Project were completed by 25 May 2018 and the construction EM&A programme was thus suspended since 25 May 2018. The construction works of Block 4 and the construction EM&A programme continued starting from 15 June 2020 and were temporarily suspended since 1 February 2021. Subsequently, the construction works of Block 4 and the construction EM&A programme resumed on 15 June 2023.

APPENDIX L RECORDS OF VIBRATION MONITORING FOR OTHER CONSTRUCTION WORKS



Appendix L Locations of Vibration Monitoring

Monitoring Check Pts.	Trigger Levels		
	Alert Level	Alarm Level	Action Level
Vibration	2 mm/s	2.5 mm/s	3 mm/s

Monitoring Reading for Block 4, Central Police Station, Hong Kong

	Check Point Mark						
	VM-1	VM-2	VM-3	VM-4			
Initial Date	7/8/2023	7/8/2023	7/8/2023	7/8/2023			
Initial Reading	0.000	0.000	0.000	0.000			
01/06/2024	0.000	0.000	0.000	0.000			
02/06/2024	Sunday						
03/06/2024	0.000	0.000	0.000	0.000			
04/06/2024	0.000	0.000	0.000	0.000			
05/06/2024	0.000	0.000	0.000	0.000			
06/06/2024	0.000	0.000	0.000	0.000			
07/06/2024	0.000	0.000	0.000	0.000			
08/06/2024	0.000	0.000	0.000	0.000			
09/06/2024	Sunday						

Monitoring Check Pts.	Trigger Levels		
	Alert Level	Alarm Level	Action Level
Vibration	2 mm/s	2.5 mm/s	3 mm/s

Monitoring Reading for Block 4, Central Police Station, Hong Kong

	Check Point Mark						
	VM-1	VM-2	VM-3	VM-4			
Initial Date	7/8/2023	7/8/2023	7/8/2023	7/8/2023			
Initial Reading	0.000	0.000	0.000	0.000			
10/06/2024	Holiday						
11/06/2024	0.000	0.000	0.000	0.000			
12/06/2024	0.000	0.000	0.000	0.000			
13/06/2024	0.000	0.000	0.000	0.000			
14/06/2024	0.000	0.000	0.000	0.000			
15/06/2024	0.000	0.000	0.000	0.000			
16/06/2024	Sunday						
17/06/2024	0.000	0.000	0.000	0.000			
18/06/2024	0.000	0.000	0.000	0.000			
19/06/2024	0.000	0.000	0.000	0.000			
20/06/2024	0.000	0.000	0.000	0.000			
21/06/2024	0.000	0.000	0.000	0.000			
22/06/2024	0.000	0.000	0.000	0.000			
23/06/2024	Sunday						

Monitoring Check Pts.	Trigger Levels		
	Alert Level	Alarm Level	Action Level
Vibration	2 mm/s	2.5 mm/s	3 mm/s

Monitoring Reading for Block 4, Central Police Station, Hong Kong

	Check Point Mark						
	VM-1	VM-2	VM-3	VM-4			
Initial Date	7/8/2023	7/8/2023	7/8/2023	7/8/2023			
Initial Reading	0.000	0.000	0.000	0.000			
24/06/2024	0.000	0.000	0.000	0.000			
25/06/2024	0.000	0.000	0.000	0.000			
26/06/2024	0.000	0.000	0.000	0.000			
27/06/2024	0.000	0.000	0.000	0.000			
28/06/2024	0.000	0.000	0.000	0.000			
29/06/2024	0.000	0.000	0.000	0.000			
30/06/2024	Sunday						
01/07/2024	Holiday						
02/07/2024							
03/07/2024							
04/07/2024							
05/07/2024							
06/07/2024							
07/07/2024	Sunday						

APPENDIX M MONTHLY SITE AUDIT CHECKLIST FOR CULTURAL HERITAGE

Block 4 Investigation, Removal and the Associated Alteration Works – Heritage Checker Monthly Site Audit Checklist for Cultural Heritage

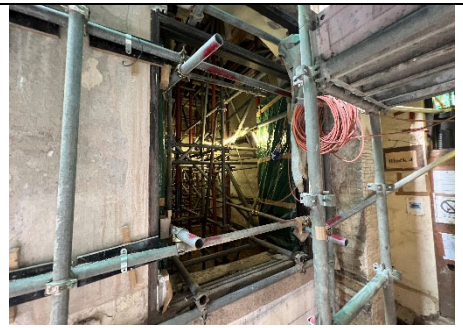
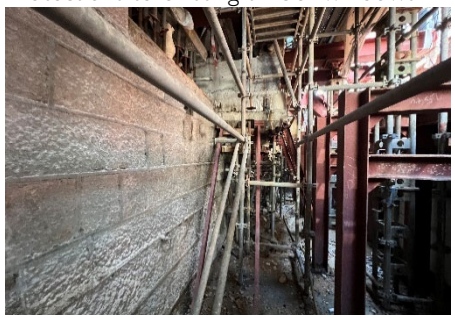
PURCELL

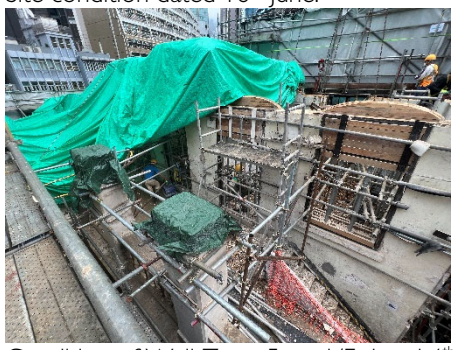
This checklist has been prepared for the purposes of measuring the Contractors' performance as required by the conditions of the Environmental Permit. The criteria to be used for the purposes of measurement are those comprising the contract documents.

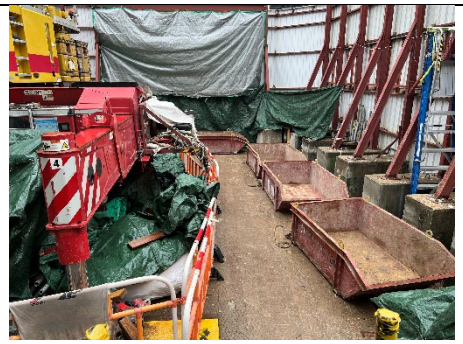
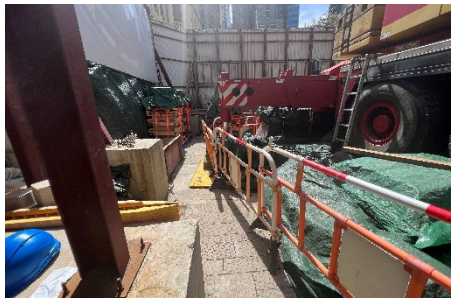
Report number: 21	**Date:** 28.06.2024

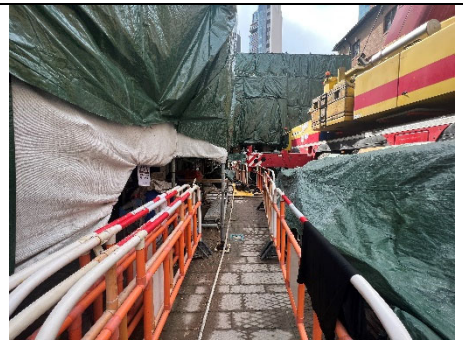
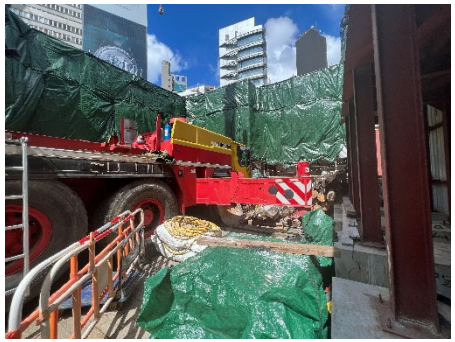
	Items	**Score**	**Reference Photo**	**Comments /**
1	**BUILDING SERVICES CO-ORDINATION**			
1.1	Are services works contractor co-ordinated effectively?	9/10		No adverse comments.
1.2	Is there a single point of contact?	9/10		Mr Alberto Kwong is the single point of contact.
1.3	Are queries intelligible?	9/10		Yes, queries were clear.
1.4	Has there been an attempt to deal with conflicts before being raised with the architect?	9/10		No conflicts reported during the reporting period.
1.5	Are co-ordination issued raised in a timely manner?	9/10		No adverse comments.
	Sub-Total	**45/50**		
2	**INFORMATION MANAGEMENT**			
2.1	Has the contractor entered into a positive dialogue with the design team about information management?	9/10		No adverse comments.
2.2	Has a formal system for the preparation, distribution and exchange of information been set up and maintained?	9/10		No adverse comments. The online system, managed by Executive Architect, RDA, is used across the project team.
2.3	Are requests for information/ instruction issued in a timely manner?	9/10		No adverse comments.
2.4	Are progress reports accurate and concise?	7/10		The progress meeting scheduled in June is postponed to mid July and the June progress report has not yet been submitted when this checker report was prepared.
2.5	Are notices accurate and presented properly and issued in a timely manner?	8/10		During the reporting period, the notices of changes/ adjustments to the upcoming planned works were issued in a reasonably timely manner.

2.6	Are written responses to correspondence prompt and well considered?	9/10		No adverse comments.
2.7	Is there good co-ordination between the members of the management team?	8/10		No adverse comments.
	Sub-Total	**59/70**		
3	**QUALITY MANAGEMENT**			
3.1	Does the contractor understand the design intent of the contract documents?	9/10		No adverse comments.
3.2	Are the works adequately supervised?	9/10	Site supervisions were present at all inspections.	[Inspections dated 4th, 11th, 18th and 24th June 2024] During the reporting period, site supervisory staff were observed onsite during each of the inspections.
3.3	Do site supervisory staff know the appropriate trade stills required?	9/10		From observations to date, site supervisory staff appear to be knowledgeable on the works being carried out.
3.4	Do the works comply with the contract documents?	16/20		No non-compliance notice was issued during the reporting period. The contractor was reminded to strictly follow the approved method statements when carrying out wall demolition works, including provision of all necessary temporary works for site safety concerns. The contractor was also reminded again to properly label all the selected CDEs to be salvaged both internally and externally (if applicable) so that they are clear and obvious to the demolition labours.

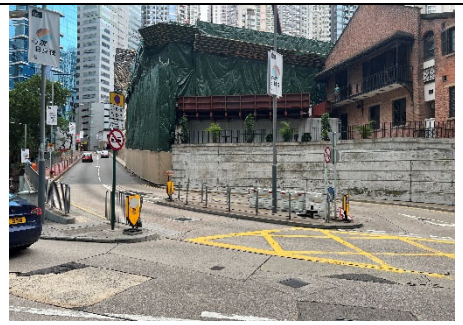
3.5	Is protection of the existing building adequate and effective?	8/10	 Protections to existing timber windows.  Temporary supports to West Corbel in Sergeants Yard on 27th June.  Condition of the scaffolding on 11th June.	[Inspections dated 4th, 11th, 18th and 24th June 2024] Protection to existing timber window on G/F was found sufficient. Contractor was reminded to maintain sufficient protection over the extent of fabric to be retained. [Inspections dated 4th, 11th, 18th and 24th June 2024] The hoarding construction in Sergeants Yard, which was originally completed in early October 2023, was found to be generally clean and tidy during all site visits. [Inspections dated 4th, 11th, 18th and 24th June 2024] The scaffolding was found well maintained during all site visits. Modifications were made to suit the ongoing demolition works. The contractor was reminded to provide warning measures and protection to any exposed sharp edges after the modification.

			 Site condition dated 18th June.  Condition of Wall Zone 5 on 1/F dated 4th June.  Removal in Wall Zone 6 dated 11th June.	[Inspections dated 4th, 11th, 18th and 24th June 2024] The Stage 2 and 3 removal works have continued on site since late February. During this reporting period, 1/F walls in zone 5 and 6 have been demolished as per the approved demolition plan and methodology. Based on the observation on site, the work sequence and methodology have followed the approved method statement(s). Selected CDEs have been salvaged during the period. These have subsequently been protected and placed in the temporary storage space at ground level. These items are awaiting transfer by the contractor to the offsite storage.

3.6	Are errors rectified promptly and effectively?	8/10		Generally, recommendations to improve or rectify protection to heritage fabric have been met with a positive response by the contractor and were carried out in a timely manner.
	Sub-Total	**59/70**		
4	**SITE SUPERVISION**			
4.1	Are site operations controlled adequately?	8/10		[Inspections dated 4th, 11th, 18th and 24th June 2024] Sufficient site staff from the Contractor were present during the operation of the mobile crane during all inspections.
4.2	Is the site kept reasonably tidy?	8/10	  The site is generally being kept tidy.	[Inspections dated 4th, 11th, 18th and 24th June 2024] The site is kept in tidy condition during this reporting period. The contractor was reminded to maintain site tidiness as well as ensuring sufficient protection is provided to the full extent of the fabric to be retained.

4.3	Is sequencing of operations managed efficiently?	8/10	 Mobile crane on site with working area fenced off.  Demolition works follow the approved sequence.	[Inspections dated 4th, 11th, 18th and 24th June 2024] The mobile crane was observed during all site inspections with the area fenced off.
4.4	Are site rules applied effectively?	9/10		[Inspections dated 4th, 11th, 18th and 24th June 2024] There was no evidence of smoking happening onsite during all site inspections. The site-based staff were all observed to be wearing the required Personal Protective Equipment (PPE), including being clipped on to the fall arrest line.

4.5	Are the temporary site facilities properly maintained?	8/10	 The site hut was kept tidy and clean.	[Inspections dated 4th, 11th, 18th and 24th June 2024] The contractors site hut is being kept reasonably clean, tidy, and organised.
4.6	Is the site managed in a safe manner?	8/10	 Working area has been fenced off.  Hoarding condition near Blk 6&7	No adverse comments.

			 Scaffolding and hoarding arrangement are maintained along Arbuthnot Road	
	Sub-Total	**49/60**		

TOTAL SCORE	**212/250**

ASSESSMENT SCORES

>200	Satisfactory
182-199	Request for improvement
<182	Unacceptable and non-compliant with the contract documents. Contract Administrator to issue instruction to carry out corrective measures.

Report compiled by: Ryan Sun of PURCELL

The scores in the attached report are derived from preceding site inspections by the Heritage Checker on 4th, 11th, 18th and 24th June 2024.

Signed:……**Date:** 28th June 2024

On behalf of Purcell©