

The Jockey Club CPS Limited

Central Police Station Conservation
and Revitalisation Project:
50th Monthly EM&A Report
(1 December to 31 December 2015)

Issue Date: January 2016

Environmental Resources Management



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and Revitalisation Project:
50th Monthly EM&A Report
(From 1 December to 31 December
2015)

Issue Date: January 2016

Reference 0095646

For and on behalf of	
ERM-Hong Kong, Limited	
Approved by:	<u>Frank Wan</u>
Signed:	<u></u>
Position:	<u>Partner</u>
Certified by:	<u></u>
	(Environmental Team Leader – Katie Yu)
Date:	<u>12 January 2016</u>

This report has been prepared by ERM-Hong Kong, Limited with all reasonable skill, care and diligence within the terms of the Contract with the client, incorporating our General Terms and Conditions of Business and taking account of the resources devoted to it by agreement with the client.

We disclaim any responsibility to the client and others in respect of any matters outside the scope of the above.

This report is confidential to the client and we accept no responsibility of whatsoever nature to third parties to whom this report, or any part thereof, is made known. Any such party relies on the report at their own risk.

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Date: 14 January 2016

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By Post and Email (katie.yu@erm.com)

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Attn: Ms Katie Yu

Dear Katie,

**Central Police Station Conservation and Revitalization Project
Verification of Monthly EM&A Report No. 50**

We refer to your letter dated 14 January 2016 regarding the Monthly EM&A Report No. 50. Atkins China Limited verifies, in the capacity of Independent Environmental Checker, that the report, in principle, conforms the requirements provided in Condition 3.4 of the Environmental Permit (EP-408/2011/B).

**Yours sincerely,
For Atkins China Limited**



**Sharifah Or
Independent Environmental Checker**

c.c. HKJC – Mr. Kenneth Lee (By Email)
Rocco Design Architect – Mr. Charles Kung (By Email)

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EXECUTIVE SUMMARY

The construction works of **Central Police Station Conservation and Revitalisation Project** commenced on 24 October 2011. This is the 50th monthly Environmental Monitoring and Audit (EM&A) report presenting the EM&A works carried out during the period from 1 to 31 December 2015 in accordance with the EM&A Manual.

Summary of Construction Works undertaken during Reporting Period

The major construction works undertaken during the reporting period include:

- Structural addition and alteration works at Blocks 4, 9 and 14;
- Roof repair works at Block 4;
- Balcony repair at Blocks 6 and 7;
- Plaster repair at Blocks 3, 9 and 14;
- Timber doors and windows repair works at Blocks 3 and 9;
- Structural timber floor repair at Blocks 4 and 10;
- Metal works repair at Blocks 3 and 14;
- Façade works at Blocks 14 and 17;
- Arbuthnot Wing & Old Bailey Wing builders works;
- Arbuthnot Wing & Old Bailey Wing external facade installation;
- E&M Opening at Blocks 3, 9 and 14;
- E&M installation at Blocks 3, 8, 9, 13, 14, 15, 17, AW, OBW and basement plant room;
- U/G Drainage at Blocks 14 and sitewide (L9, L10, M1, M3B, M4, M5B, M6A); and
- Footbridge construction.

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 | 6 times |
| • Joint environmental site inspection | 1 time |
| • Heritage site inspections | 18 times |
| • Landscape & visual monitoring | 1 time |
| • Tree inspection | 1 time |
| • Vibration monitoring for piling works | 25 times |
| • Vibration monitoring for other construction works | 25 times |

Noise

6 sets of 30-minute construction noise measurements were carried out at each of the monitoring stations (NM2 and NM6) during normal weekdays of the reporting period. No exceedance of the Action or Limit Level of construction noise was recorded during the reporting period.

Cultural Heritage

Vibration monitoring carried out for the trial piling and piling works during the reporting period are listed below:

- 25 vibration monitoring measurements at Block 8;

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

- 25 vibration monitoring measurements for the structural addition and alteration works at Block 11.

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

Heritage site audits were conducted on 1-4, 7-11, 16-17, 21-23, 28-31 December 2015 by the Heritage Checker during the reporting period. Major observations and recommendations during the site inspections were listed below:

4 December 2015

- It was observed that the installed vent pipe height at rooftop of Block 13 was not in accordance with the approved drawings. The Contractor was informed to follow up.

8 December 2015

- It was observed that the roof slab at Block 13 was drilled through during E&M installation on the roof, causing water ingress. The Contractor was informed to follow up.
- It was observed that the timber door ironmongery was installed incorrectly at ground floor of Block 1. The Contractor was informed to follow up.

10 December 2015

- It was observed that trunking at the staircase of Block 11 was not installed in accordance with the approved drawings. The Contractor was informed to follow up.

28 December 2015

- It was observed that the new metal doors between Block 8 and Block 11 were not installed at the correct location in accordance with the approved drawings. The Contractor was informed to follow up.

31 December 2015

- It was observed that three hose reels have been installed at the incorrect level at ground and first floor of Block 8. The Contractor was informed to follow up.

The Contractor was urged to follow-up the necessary rectification based on the inspection findings.

The follow-up actions recommended in the heritage site audits from the last reporting period (November 2015) have generally been implemented.

Landscape & Visual

Landscape and visual monitoring has commenced since October 2011 on a monthly basis. Tree inspection was conducted on 4 December 2015 by the arborist during the reporting period. Signs of pest (mealy bugs) at Tree-5 have been reduced due to pest control. The Contractor was recommended to keep monitoring of the pest for Tree-5. The exposed tree roots of Tree-5 observed from the last inspection have been covered with top soil. Withered leaves were observed at Tree-11 and the Contractor was reminded to keep close monitoring on the growth of the trees. Also, many construction materials were observed near the planter of Tree-11. The Contractor was recommended to keep the planter area clear.

Waste Management

Wastes generated from this Project include inert construction and demolition (C&D) materials and non-inert C&D materials. A total of 596 tonnes of inert C&D materials were generated during the reporting period. 250.51 tonnes of non-inert C&D materials comprising general refuse were generated and disposed of at the SENT Landfill. 16,770 kg of metals and 103 kg of paper/cardboard packaging was generated during the reporting period. No plastic waste was generated during the reporting period. No chemical waste was produced during the reporting period.

Environmental Site Inspection

A joint environmental site inspection was carried out by the representatives of the Contractor, the IEC and the ET on 17 December 2015. Litter and construction materials were still observed at the planter of Tree-11. The Contractor was reminded to remove the litter and construction materials. The planter needs to be kept clear at all times.

Environmental Exceedance/Non-conformance/Compliant/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 the Alert, Alarm and Action Levels of vibration was recorded during the reporting period.

No enquiry was received during the reporting period.

No non-compliance event was recorded during the reporting period.

No complaint was received during the reporting period.

No summons/prosecution was received during the reporting period.

Future Key Issues

Works to be undertaken in the next month include:

- Structural addition and alteration works at Blocks 4 and 9;
- Roof repair works at Block 4;
- Balcony repair at Block 6;
- Plaster repair at Blocks 3, 9 and 14;
- Timber doors and windows repair works at Blocks 3 and 9;
- Structural timber floor repair at Blocks 4 and 10;
- Metal works repair at Block 14;
- Façade works at Blocks 14 and 17;
- Builders works at Arbuthnot Wing and Old Bailey Wing;
- External façade installation at Old Bailey Wing;
- E&M opening at Blocks 3, 9 and 14;
- E&M installation at Blocks 3, 9, 14, Arbuthnot Wing and Old Bailey Wing;
- Underground drainage at Blocks 14 and sitewide (M1, M3B, M4, M6A);
and
- Footbridge construction.

Potential environmental impacts arising from the above construction activities are mainly associated with dust, construction noise, site runoff and waste management.

1 INTRODUCTION

ERM-Hong Kong, Limited (ERM) was appointed by the Jockey Club CPS Limited (the CPS Ltd) 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 50th EM&A report which summarises the impact monitoring results and audit findings for the EM&A programme during the reporting period from **1 to 31 December 2015**.

1.2 STRUCTURE OF THE REPORT

The structure of the report is as follows:

Section 1 : **Introduction**

details the scope and structure of the report.

Section 2 : **Project Information**

summarises background and scope of the Project, site description, project organization and contact details, construction programme, the construction works undertaken and the status of Environmental Permit(s)/License(s) during the reporting period.

Section 3 : **Environmental Monitoring Requirements**

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 : **Implementation Status on Environmental Protection Requirements**

summarises the implementation of environmental protection measures during the reporting period.

Section 5 : **Monitoring Results**

summarises the monitoring results obtained in the reporting period.

Section 6 : **Environmental Site Inspection**

summarises the audit findings of the site inspections undertaken within the reporting period.

Section 7: **Environmental Non-conformance**

summarises any monitoring exceedance, environmental complaints and environmental summons within the reporting period.

Section 8: **Future Key Issues**

summarises the impact forecast and monitoring schedule for the next reporting month.

Section 9: **Conclusions**

2 PROJECT INFORMATION

2.1 BACKGROUND

The Chief Executive (CE)'s 2007-2008 Policy Address highlighted revitalisation as the guiding principle of heritage conservation and the Project was one of the specific proposals put forward by the CE in the same Policy Address. At the meeting of the Executive Council (ExCo) on 15 July 2008, the ExCo advised and the CE ordered that Government should enter into a partnership with the Hong Kong Jockey Club (HKJC) in the form of an agreement (or agreements) to take forward the conservation and revitalisation of the CPS project based on various guiding parameters. The Project is now being undertaken in partnership with the Development Bureau of the HKSAR Government. The HKJC has taken on board the decision at the ExCo meeting and further investigated the design and implementation of the Project. The Project is now implemented by the Jockey Club CPS Limited.

2.2 SITE DESCRIPTION

The location of the Project Site is shown in *Annex 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). *Annex A2* shows the location of the Declared Monuments within CPS and the buildings within the CPS.

2.3 CONSTRUCTION ACTIVITIES

A summary of the major construction activities undertaken in this reporting period is shown in *Table 2.1* and illustrated in *Annex A3*.

Table 2.1 **Summary of Construction Activities Undertaken from 1 to 30 November 2015**

Construction Activities Undertaken
<ul style="list-style-type: none">• Structural addition and alteration works at Blocks 4, 9 and 14;• Roof repair works at Block 4;• Balcony repair at Blocks 6 and 7;• Plaster repair at Blocks 3, 9 and 14;• Timber doors and windows repair works at Blocks 3 and 9;• Structural timber floor repair at Blocks 4 and 10;• Metal works repair at Blocks 3 and 14;• Façade works at Blocks 14 and 17;• Arbuthnot Wing & Old Bailey Wing builders works;• Arbuthnot Wing & Old Bailey Wing external facade installation;• E&M Opening at Blocks 3, 9 and 14;• E&M installation at Blocks 3, 8, 9, 13, 14, 15, 17, AW, OBW and basement plant room;• U/G Drainage at Blocks 14 and sitewide (L9, L10, M1, M3B, M4, M5B, M6A); and• Footbridge construction.

2.4 **PROJECT ORGANISATION**

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

2.5 **STATUS OF ENVIRONMENTAL APPROVAL DOCUMENTS**

A summary of the relevant permits, licences, and/or notifications on environmental protection for this Project since the granting of the EP in April 2011 is presented in *Table 2.2*.

Table 2.2 Summary of Environmental Licensing, Notification and Permit Status

Permit/ Licences/ Notification	Reference	Validity Period	Remarks
Environmental Permit (EP)	EP-408/2011	-	Superseded on 10 January 2012
	EP-408/2011/A	-	Superseded on 22 March 2012
	EP-408/2011/B	Throughout the Contract	Permit granted on 22 March 2012
Notification of Construction Works as required under <i>Air Pollution Control (Construction Dust) Regulation</i>	Ref. No. 332920	Throughout the Contract	-
Registration of Waste Producer under <i>Waste Disposal Ordinance</i>	Waste Producer No.: 5213-122-G2347-25	Throughout the Contract	-
Effluent Discharge License under <i>Water Pollution Control Ordinance</i>	License No. WT00010633-2011	21 Oct 2011 – 31 Oct 2016	-
Notification of Commencement of Asbestos Abatement Work under <i>Air Pollution Control Ordinance</i>	-	Throughout the Contract	EPD's letter (EPD's ref.: (5) in EPAC/A/4/000/23 3 II) dated 2 December 2011 satisfied that the content of the asbestos abatement plan (Report No.: 0210/11/ED/0078A) is in accordance with the APCO
Approval of Asbestos Abatement Work (Phase 2)	-	Earliest commencement date on 26 January 2012	EPD's letter (EPD's ref.:() in EPAC/A/4/000/23 3) dated 18 January 2012.
Construction Noise Permit (CNP)	GW-RS0734-12	11 July 2012 at 0200 hours to 2 August 2012 at 0400 hours	Expired.
	GW-RS0839-12	13 August 2012 at 1900 hours to 31 December 2012 at 0700 hours	Expired.
	GW-RS1162-12	1 December 2012 at 0000 hours to 28 March 2013 at 0600 hours	Expired.
	GW-RS0113-13	1 February 2013 at 0200 hours to 31 May 2013 at 0400 hours	Expired.
	GW-RS1301-12	2 January 2013 at	Expired.

Permit/ Licences/ Notification	Reference	Validity Period	Remarks
		1900 hours to 29 June 2013 at 2300 hours	
	GW-RS0084-13	24 January 2013 at 1900 hours to 29 June 2013 at 0700 hours	Expired.
	GW-RS0638-13	16 June 2013 at 0700 hours to 15 September 2013 at 1900 hours	Expired.
	GW-RS0901-13	14 August 2013 at 0000 hours to 31 October 2013 at 0600 hours	Expired.
	GW-RS0714-13	29 June 2013 at 1900 hours to 28 December 2013 at 2400 hours	Expired.
	GW-RS0745-13	5 July 2013 at 1900 hours to 30 December 2013 at 2300 hours	Expired.
	GW-RS1110-13	7 October 2013 at 0200 hours to 31 December 2013 at 0400 hours	Expired.
	GW-RS1205-13	4 November 2013 at 0000 hours to 30 January 2014 at 2400 hours	Expired.
	GW-RS1275-13	13 November 2013 at 0000 hours to 30 April 2014 at 2400 hours	Expired.
	GW-RS0062-14	10 February 2014 at 0000 hours to 31 March 2014 at 2400 hours.	Expired.
	GW-RS1461-13	29 December 2013 at 0000 hours to 28 June 2014 at 2400 hours.	Expired.
	GW-RS0271-14	1 April 2014 at 0100 hours to 30 June 2014 at 0600 hours	Expired.
	GW-RS0434-14	8 May 2014 at 0000 hours to 30 September 2014 at 2400 hours	Expired.
	GW-RS0651-14	28 July 2014 at 0000 hours to 26 September 2014 at 2400 hours	Expired.

Permit/ Licences/ Notification	Reference	Validity Period	Remarks
	GW-RS0658-14	29 June 2014 at 0000 hours to 28 December 2014 at 2400 hours	Expired.
	GW-RS0918-14	29 September 2014 at 0000 hours to 31 December 2014 at 2400 hours	Expired.
	GW-RS0749-14	1 August 2014 at 0000 hours to 31 January 2015 at 2400 hours	Expired.
	GW-RS0044-15	16 March 2015 at 0100 hours to 24 April 2015 at 0500 hours	Expired.
	GW-RS0086-15	1 February 2015 at 0000 hours to 30 June 2015 at 2400 hours	Expired.
	GW-RS0280-15	27 April 2015 at 0000 hours to 26 May 2015 at 2400 hours	Expired.
	GW-RS0693-15	6 July 2015 at 0000 hours to 30 July 2015 at 2400 hours	Expired.
	GW-RS0707-15	1 July 2015 at 0000 hours to 29 December 2015 at 2400 hours	Cancelled by EPD on 31 July 2015.
	GW-RS0241-15	23 March 2015 at 0000 hours to 21 August 2015 at 2400 hours	Expired.
	GW-RS0580-15	28 May 2015 at 0000 hours to 25 August 2015 at 2400 hours	Expired.
	GW-RS0514-15	21 May 2015 at 0000 hours to 20 November 2015 at 2400 hours	Expired.
	GW-RS0696-15	28 June 2015 at 0000 hours to 29 November 2015 at 2400 hours	Expired.
	GW-RS1301-15	30 November 2015 at 0000 hours to 29 May 2016 at 2400 hours	-

3 ENVIRONMENTAL MONITORING REQUIREMENTS

3.1 NOISE MONITORING

3.1.1 Monitoring Location

The construction noise monitoring locations are listed in *Table 3.1* and are shown in *Annex 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
Rooftop of Ho Fook Building	N2	NM2	Façade	-
Rooftop of Chancery Mansion	---	NM6	Façade	Accesses to the original proposed monitoring location in the EM&A Manual, Chancery House (N5), were denied; alternative location of Chancery Mansion (N6), were therefore proposed and approved by the Authorised Person (AP), the Independent Environmental Checker (IEC) and EPD.

The noise sensitive receivers are also shown in *Annex 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 *Annex 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 *Annex E*.

Table 3.2 *Noise Monitoring Equipment*

Monitoring Stations	Monitoring Equipment (Sound Level Meter and Calibrator)
NM2, NM6	<u>Calibrator</u>
	CEL-120 (S/N 3421612)
	CAL 200 (S/N 10227)
	<u>Sound Level Meter</u>
	CEL-633A (S/N 3521757)
	NL-31 (S/N 00320533)

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
NM2, NM6	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 CNP issued by the NCA have to be followed.

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

3.2 CULTURAL HERITAGE

3.2.1 Vibration Monitoring

In accordance with the EM&A Manual, vibration monitoring is required and the vibration control limits and vibration monitoring proposal are defined by a specialist for AMO's approval.

Baseline Monitoring

A set of initial readings should be recorded prior to commencement of each stage of demolition works or trial piling works. The baseline vibration monitoring should be conducted for duration of 5 minutes on the measurement day(s) at each vibration monitoring location.

Vibration Monitoring for Demolition Works

There are five phases/stages of vibration monitoring to be carried out for demolition works, namely Initial Reading Phase, Monitoring Stage 1, Monitoring Stage 2, Monitoring Stage 3 and Monitoring Stage 4. The vibration monitoring should be conducted for duration of 5 minutes on the days with demolition works at each vibration monitoring location.

Vibration Monitoring for Trial Piling and Pipe/Bored Piling Works

Vibration monitoring for trial piling works and pipe/bored piling works is required. The monitoring location is shown in *Annex L*. The vibration monitoring should be conducted for duration of 5 minutes on the days with trial piling works or pipe/bored piling works at each vibration monitoring location.

Vibration Monitoring for Other Construction Works

Vibration monitoring for specific construction works other than demolition works, trial piling works and pipe/bored piling works is also required in accordance with Building Department's requirement. The monitoring location is shown in *Annex M*. The number and location of monitoring location 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 (including those for archaeology) in accordance with the EP, EIA and EM&A Manual were implemented by the Contractor and the implementation status is given in *Annex G*.

3.3 *LANDSCAPE AND VISUAL MONITORING*

In accordance with the EM&A Manual, inspections of affected trees were conducted by an experienced and appropriately trained arborist. All irregularities that deviate from the recommended tree protection measures or could impose deleterious impacts on the protected trees were reported. Besides, implementation of mitigation measures for landscape and visual resources recommended in the EIA Report were also 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 *Annex 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 (including those for archaeology) 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 summarized in *Annex G*.

Status of required submissions under the EP during the reporting period is presented in *Table 4.1*.

Table 4.1 *Status of Required Submissions*

Submission		Submission Date
<i>EP Condition</i>		
Condition 3.4	49 th Monthly EM&A Report	14 December 2015

5 MONITORING RESULTS

5.1 NOISE

A total of 6 sets of 30-minute construction noise measurements were carried out at the monitoring stations (NM2 and NM6) during normal weekdays of the reporting period. The monitoring results together with graphical presentations are presented in *Annex H*. The local impacts observed near the monitoring stations of NM2 and NM6 were summarised below:

- NM2: construction noise from activities in the Project Site and traffic noise from Old Bailey Street.
- NM6: construction noise from activities in the Project Site and traffic noise from Chancery Lane.

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*

Trial Piling and Piling works

Vibration monitoring carried out for the trial piling and piling works during the reporting period are listed below:

- 25 vibration monitoring measurements at Block 8;

The monitoring results are presented in *Annex L*.

Other Construction Works

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

- 25 vibration monitoring measurements for the structural addition and alteration works at Block 11.

The monitoring results are presented in *Annex M*.

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

5.2.2 *Heritage Site Audit*

Heritage site audits were conducted on 1-4, 7-11, 16-17, 21-23, 28-31 December 2015 by the Heritage Checker during the reporting period. The cultural heritage requirements (including the recommended mitigation measures)

stated in the approved EIA Report (AEIAR-162/2011) are being carried out. Major observations with respect to the requirements of the contract documents during the site inspections were listed below:

4 December 2015

- It was observed that the installed vent pipe height at rooftop of Block 13 was not in accordance with the approved drawings. The Contractor was informed to follow up.

8 December 2015

- It was observed that the roof slab at Block 13 was drilled through during E&M installation on the roof, causing water ingress. The Contractor was informed to follow up.
- It was observed that the timber door ironmongery was installed incorrectly at ground floor of Block 1. The Contractor was informed to follow up.

10 December 2015

- It was observed that trunking at the staircase of Block 11 was not installed in accordance with the approved drawings. The Contractor was informed to follow up.

28 December 2015

- It was observed that the new metal doors between Block 8 and Block 11 were not installed at the correct location in accordance with the approved drawings. The Contractor was informed to follow up.

31 December 2015

- It was observed that three hose reels have been installed at the incorrect level at ground and first floor of Block 8. The Contractor was informed to follow up.

The follow-up actions recommended in the heritage site audits from the last reporting period (November 2015) have generally been implemented.

5.3

LANDSCAPE AND VISUAL

The tree inspection was conducted by the arborist on 4 December 2015 and major observations and recommendations in the reporting period are summarised in *Table 5.1*. The tree inspection report is contained in *Annex J*.

Table 5.1 Findings of Monthly Tree Inspection in the Reporting Period

Tree No.	Botanical Name	Overall Health Condition	Arborist's Observations / Recommendations
Tree -5	<i>Mangifera indica</i>	Fair	<ul style="list-style-type: none"> To keep close monitoring on the presence of pest on the tree; The exposed large bare root has been covered with top soil.
Tree -6	<i>Aleurites moluccana</i>	Fair	<ul style="list-style-type: none"> No further action required.
Tree-7	<i>Aleurites moluccana</i>	Fair	<ul style="list-style-type: none"> No further action required.
Tree-8	<i>Plumeria rubra</i>	Fair	<ul style="list-style-type: none"> No further action required.
Tree-9	<i>Araucaria cunninghamia</i>	Fair	<ul style="list-style-type: none"> No further action required.
Tree-11	<i>Dracaena marginata</i>	Poor	<ul style="list-style-type: none"> Withered leaves were observed on the tree; Many construction materials were observed near the planter; To keep close monitoring on the growth of the tree; To keep the planter area clear.

5.4

WASTE MANAGEMENT

Wastes generated from this Project include inert construction and demolition (C&D) materials and non-inert C&D materials. Non-inert C&D materials were made up of wastes such as general refuse. 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 5.2*. The non-inert C&D materials and general refuse generated from the Project were disposed of at the SENT Landfill. 16,770 kg of metals and 103 kg of paper/cardboard packaging was generated during the reporting period. No plastic waste was generated during the reporting period. No chemical waste was produced during the reporting period.

Table 5.2 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
December 2015	596.0 tonnes	250.51 tonnes	0 kg	0 L	103 kg	0 kg	16,770 kg

Notes:

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

(b) The figure presented under non-inert C&D materials represents quantities of non-recyclable materials such as general refuse which were disposed of at SENT Landfill. Recycled materials are reported separately.

6 ENVIRONMENTAL SITE INSPECTION

Joint environmental site inspection was conducted by the representatives of the Contractor, IEC and the ET in the reporting period on 17 December 2015. There was no non-compliance recorded during the site inspection.

Follow-up Actions for the Last Site Audit

- Litter and construction materials were still observed at the planter of Tree-11. The Contractor was reminded to remove the litter and construction materials and keep the planter clear at all times. This observation was found on 19 November 2015 and 17 December 2015, and would be followed up in the next site inspection scheduled in January 2016; and
- The chemical containers observed without drip trays in Block 14 have been removed.

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 or Alert, Alarm and Action Levels of vibration was recorded during the reporting period.

7.2 SUMMARY OF ENQUIRY

No enquiry was recorded during the reporting period.

7.3 SUMMARY OF ENVIRONMENTAL NON-COMPLIANCE

No non-compliance event was recorded during the reporting period.

7.4 SUMMARY OF ENVIRONMENTAL COMPLAINT

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

7.5 SUMMARY OF ENVIRONMENTAL SUMMONS AND SUCCESSFUL PROSECUTION

No summons/prosecution was received during the reporting period.

8.1 KEY ISSUES FOR THE COMING MONTH

Works to be undertaken for the coming monitoring period are summarised in *Table 8.1*.

Table 8.1 Construction Works to be Undertaken in the Coming Month

Work to be Undertaken
<ul style="list-style-type: none"> • Structural addition and alteration works at Blocks 4 and 9; • Roof repair works at Block 4; • Balcony repair at Block 6; • Plaster repair at Blocks 3, 9 and 14; • Timber doors and windows repair works at Blocks 3 and 9; • Structural timber floor repair at Blocks 4 and 10; • Metal works repair at Block 14; • Façade works at Blocks 14 and 17; • Builders works at Arbuthnot Wing and Old Bailey Wing; • External façade installation at Old Bailey Wing; • E&M opening at Blocks 3, 9 and 14; • E&M installation at Blocks 3, 9, 14, Arbuthnot Wing and Old Bailey Wing; • Underground drainage at Blocks 14 and sitewide (M1, M3B, M4, M6A); and • Footbridge construction.

Potential environmental impacts arising from the above construction activities are mainly associated with dust, construction noise, site runoff and waste management.

8.2 MONITORING SCHEDULE FOR THE NEXT MONTH

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

8.3 CONSTRUCTION PROGRAMME FOR THE NEXT MONTH

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

CONCLUSIONS

The *Environmental Monitoring and Audit (EM&A) Report* presents the EM&A works undertaken during the period from 1 to 31 December 2015 in accordance with EM&A Manual and the requirement under EP-408/2011/B.

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 non-compliance event was recorded during the reporting period.

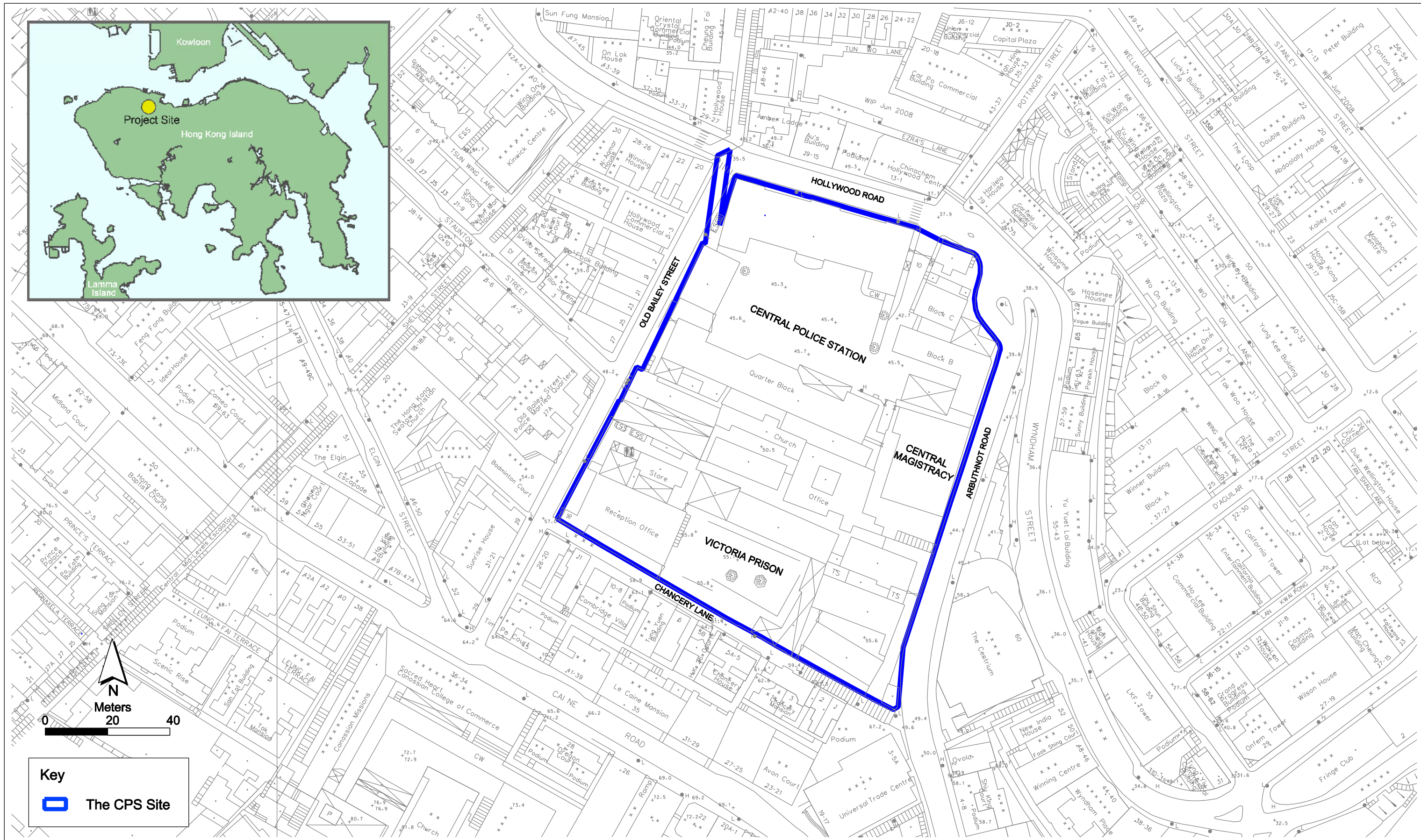
No complaint was received during the reporting period.

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.

Annex A

Locations of Works Areas and the Surroundings



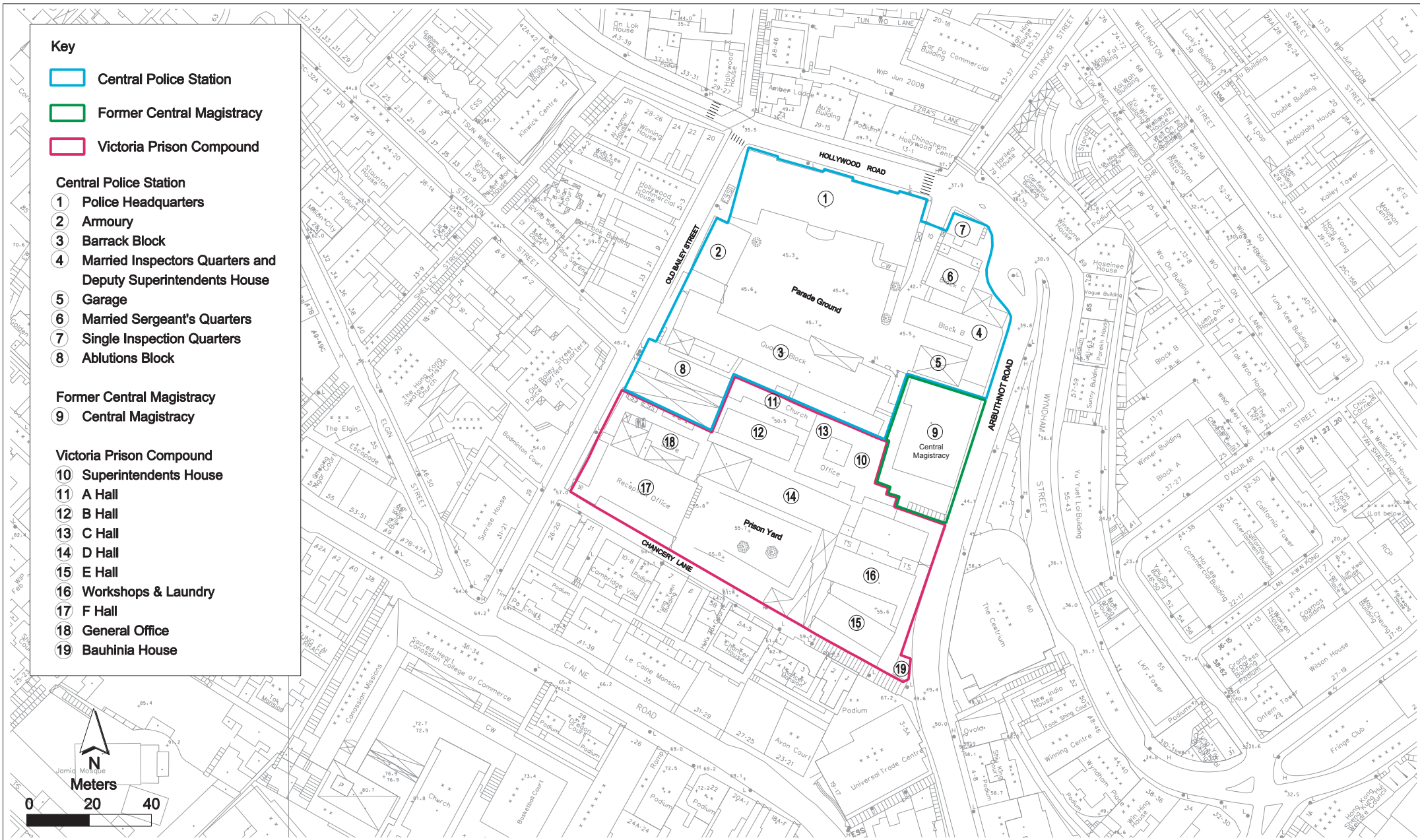
Annex A1

Project Location

**Environmental
Resources
Management**



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



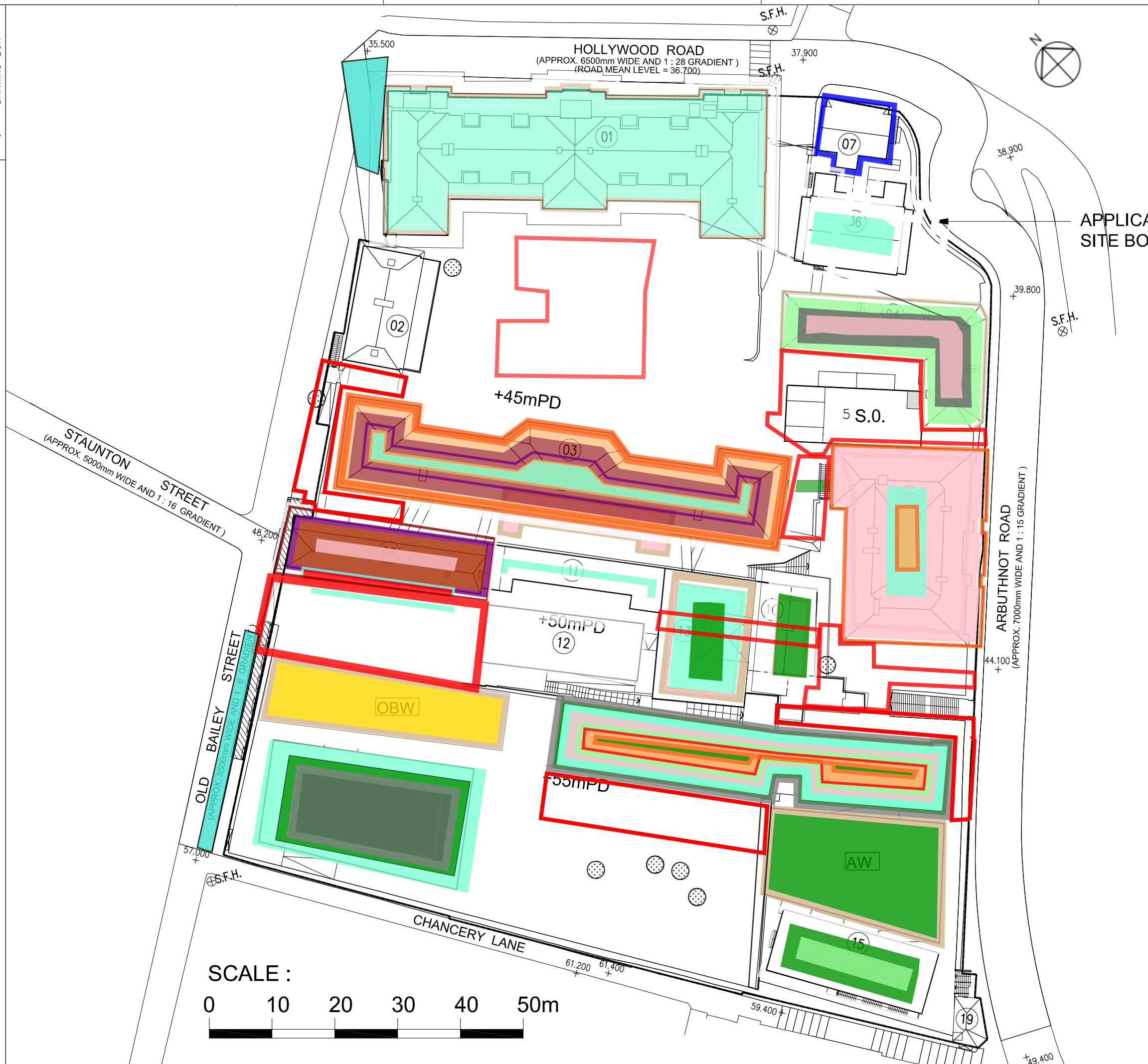
Annex A2

Declared Monuments within the Project Site

**Environmental
Resources
Management**

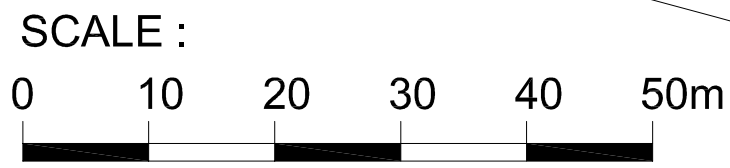


賽馬會文物保育有限公司
The Jockey Club CPS Limited



LEGEND

- 1. E&M Installation / Opening / Conduit Transformer delivery and installation
- 2. Excavation
- 3. Internal Building Works
- 4. Permanent Steel Works Erection
- 5. Upgrading
- 6. Roof Replacement Works / New Roof / Repair
- 7. Basement Construction
- 8. Structure A&A Works
- 9. Repair Works to Timber Window, Door, Structure, Floor and Metal Elements
- 10. Demolition Works
- 11. Facade Works / Link Bridge Repair
- 12. New Structure Construction
- 13. Balcony Repair
- 14. Paint Stripping and Plastering Works
- 15. Core Wall Construction
- 16. Utilities Diversion and Carriageway
- 17. PBR
- 18. Removal of Needle Beams
- 19. U/G Drainage
- 20. Service trench construction
- 21. Demolition of concrete block
- 22. New Balcony Construction
- 23. Construction of terminal Manhole

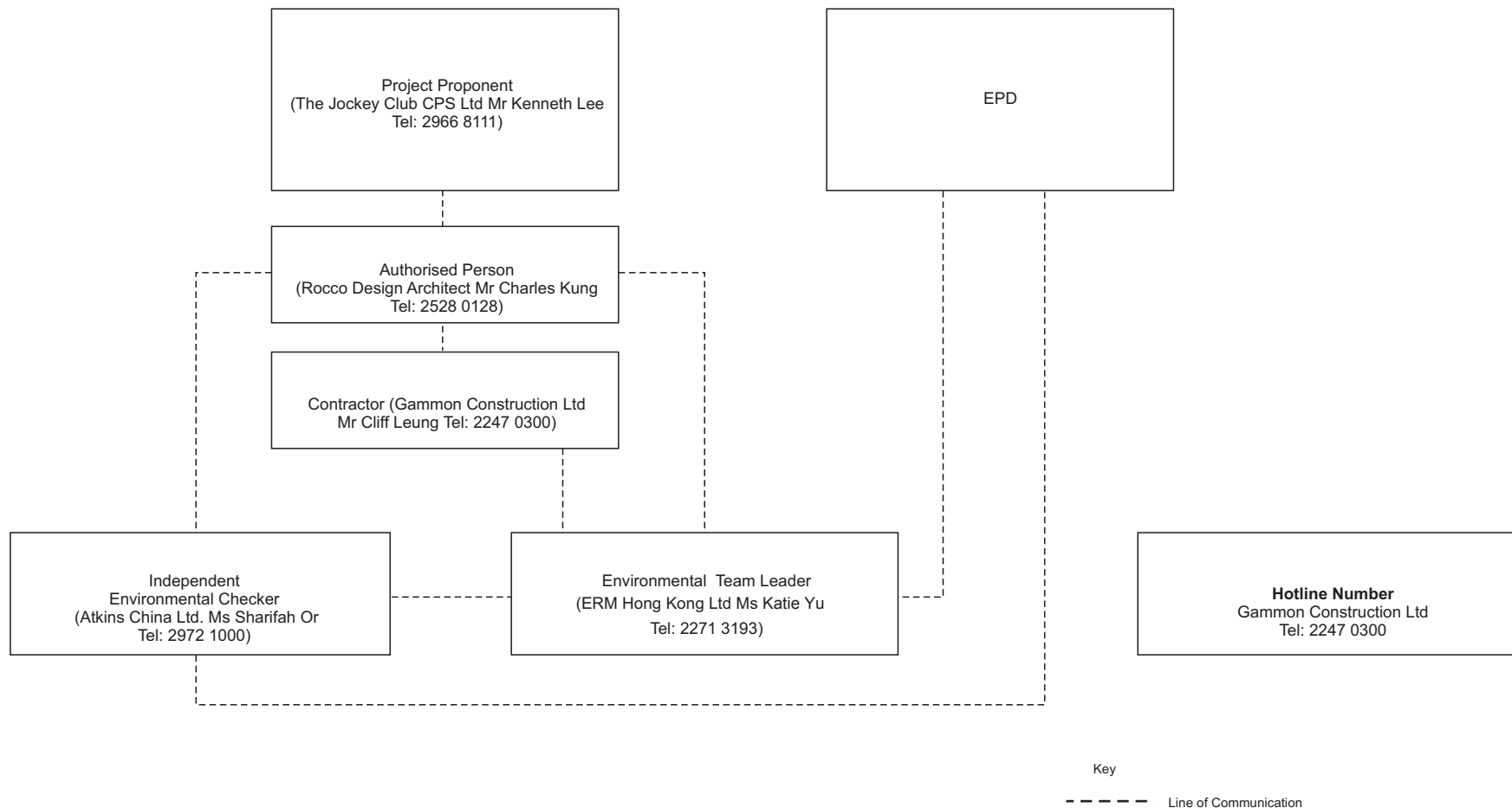


 Contractor	
SITE LAYOUT PLAN	
Drawn	Scale N.T.S.
Designed	Status Marked for Enquiry & Complaint log (CPS/E&C/09)
Checked	
Approved	Drawing No.
CAD Ref	-

Annex A3 Site Layout Plan marked with Works (Dec- 2015)

Annex B

Project Organization Chart and Contact Detail



Annex C

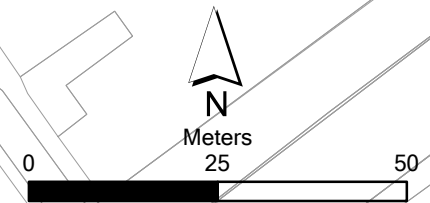
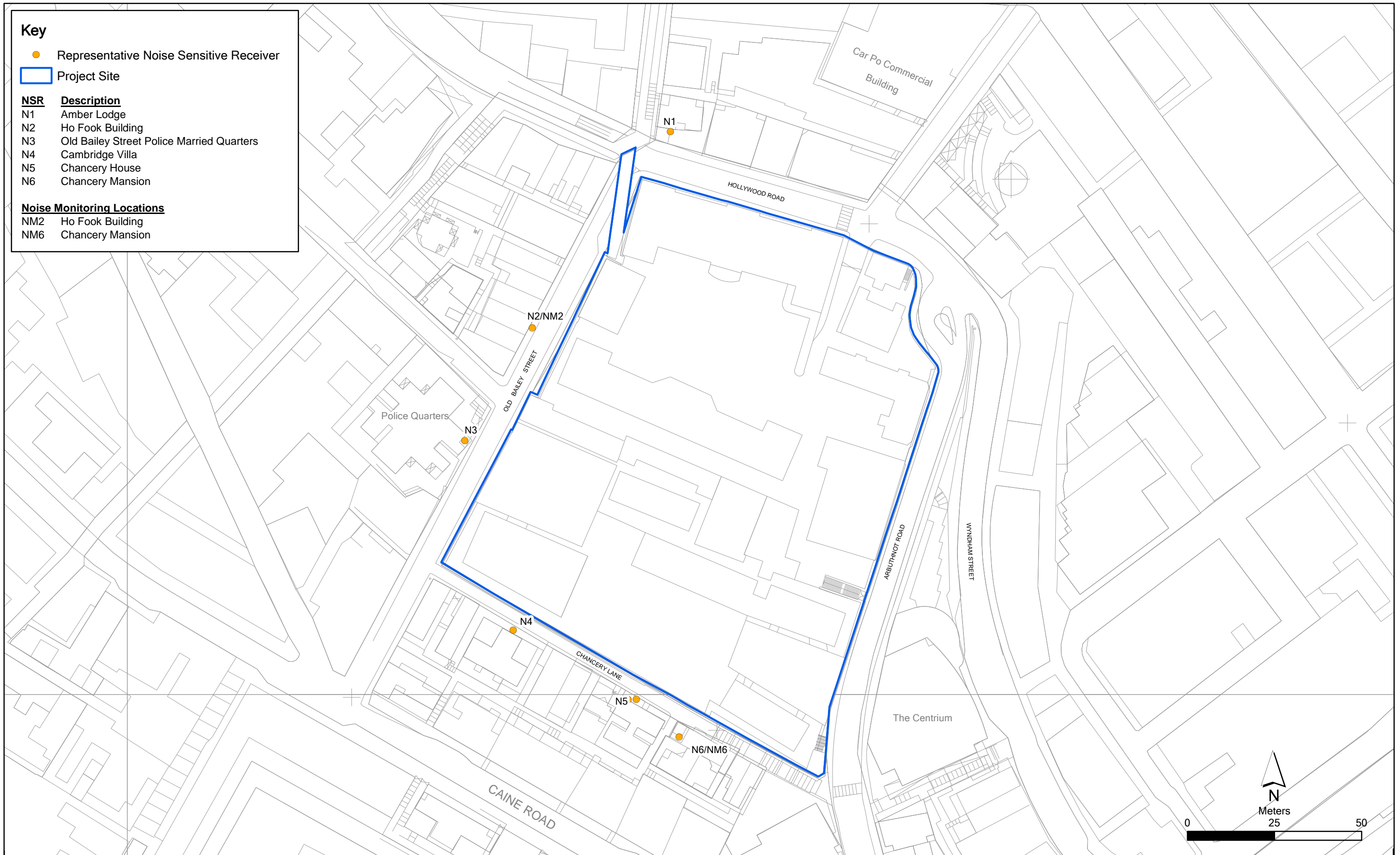
Locations of Noise
Monitoring Stations and
Noise Sensitive Receivers

Key

- Representative Noise Sensitive Receiver
- ▭ Project 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

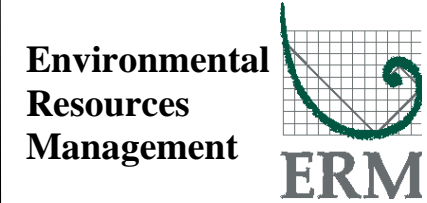
Noise Monitoring Locations	
NM2	Ho Fook Building
NM6	Chancery Mansion



Annex C

Location of Representative Noise Sensitive Receivers and Noise Monitoring Locations

File: 0095646_NSR_NM_May2012.mxd
Date: 09/05/2012



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

Annex D

Monitoring Schedule of the Reporting Period and Next Month

**Central Police Station Compound Conservation and Revitalisation
(Ho Fook Building - NM2 & Chancery Mansion - NM6)
Monitoring Schedule for Reporting Month - December 2015**

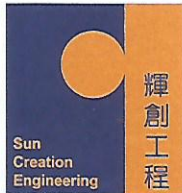
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		01-Dec	02-Dec	03-Dec	04-Dec	05-Dec
			Noise Monitoring at NM2 & NM6			
06-Dec	07-Dec	08-Dec	09-Dec	10-Dec	11-Dec	12-Dec
		Noise Monitoring at NM2 & NM6				
13-Dec	14-Dec	15-Dec	16-Dec	17-Dec	18-Dec	19-Dec
	Noise Monitoring at NM2 & NM6				Noise Monitoring at NM2 & NM6	
20-Dec	21-Dec	22-Dec	23-Dec	24-Dec	25-Dec	26-Dec
			Noise Monitoring at NM2 & NM6		Public Holiday	Public Holiday
27-Dec	28-Dec	29-Dec	30-Dec	31-Dec		
		Noise Monitoring at NM2 & NM6				

**Central Police Station Compound Conservation and Revitalisation
(Ho Fook Building - NM2 & Chancery Mansion - NM6)
Monitoring Schedule for Next Reporting Month - January 2016**

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					01-Jan	02-Jan
03-Jan	04-Jan	05-Jan	06-Jan	07-Jan	08-Jan	09-Jan
	Noise Monitoring at NM2 & NM6					Noise Monitoring at NM2 & NM6
10-Jan	11-Jan	12-Jan	13-Jan	14-Jan	15-Jan	16-Jan
					Noise Monitoring at NM2 & NM6	
17-Jan	18-Jan	19-Jan	20-Jan	21-Jan	22-Jan	23-Jan
				Noise Monitoring at NM2 & NM6		
24-Jan	25-Jan	26-Jan	27-Jan	28-Jan	29-Jan	30-Jan
			Noise Monitoring at NM2 & NM6			
31-Jan						

Annex E

Calibration Reports for Calibrators and Sound Level Meters



輝創工程有限公司

Sun Creation Engineering Limited

Calibration and Testing Laboratory

Certificate of Calibration

校正證書

Certificate No. : C147474

證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號 : IC14-3079) Date of Receipt / 收件日期 : 5 December 2014

Description / 儀器名稱 : Sound Level Meter

Manufacturer / 製造商 : Casella

Model No. / 型號 : CEL-633A

Serial No. / 編號 : 3521757

Supplied By / 委託者 : Envirotech Services Co.

Shop 6, G/F., Casio Mansion, 209 Shaukeiwan Road,
Hong Kong

TEST CONDITIONS / 測試條件

Temperature / 溫度 : $(23 \pm 2)^{\circ}\text{C}$

Relative Humidity / 相對濕度 : $(55 \pm 20)\%$

Line Voltage / 電壓 : ---

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期 : 14 December 2014

TEST RESULTS / 測試結果

The results apply to the particular unit-under-test only.

All results are within manufacturer's specification.

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
- Agilent Technologies / Keysight Technologies
- Rohde & Schwarz Laboratory, Germany
- Fluke Everett Service Center, USA


Tested By

測試


K O Lee
Project Engineer

Certified By

核證


K K Wong
Engineer

Date of Issue

簽發日期

17 December 2014

The test equipment used for calibration are traceable to the Nation Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.

本證書所載校正用之測試器材均可溯源至國際標準。局部複印本證書需先獲本實驗室所書面批准。

Sun Creation Engineering Limited – Calibration & Testing Laboratory

c/o 4/F, Tsing Shan Wan Exchange Building, 1 Hing On Lane, Tuen Mun, New Territories, Hong Kong

輝創工程有限公司 – 校正及檢測實驗室

c/o 香港新界屯門興安里一號青山灣機樓四樓

Tel/電話: 2927 2606

Fax/傳真: 2744 8986

E-mail/電郵: callab@suncreation.com

Website/網址: www.suncreation.com

Certificate of Calibration

校正證書

Certificate No. : C147474

證書編號

- 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.
- Self-calibration using the Casella Acoustic Calibrator CEL-120/1, S/N : 3421612 was performed before the test.
- The results presented are the mean of 3 measurement at each calibration point.
- Test equipment :

<u>Equipment ID</u>	<u>Description</u>	<u>Certificate No.</u>
CL280	40 MHz Arbitrary Waveform Generator	C140016
CL281	Multifunction Acoustic Calibrator	DC130171

- Test procedure : MA101N.

- Results :

6.1 Sound Pressure Level

6.1.1 Reference Sound Pressure Level

UUT Setting		Applied Value		UUT Reading (dB)	IEC 61672 Class 1 Spec. (dB)
Time Weighting	Frequency Weighting	Level (dB)	Freq. (kHz)		
L _F	A	114.00	1	113.9	± 1.1

6.1.2 Linearity

UUT Setting		Applied Value		UUT Reading (dB)
Time Weighting	Frequency Weighting	Level (dB)	Freq. (kHz)	
L _F	A	114.00	1	113.9 (Ref.)
		104.00		103.9
		94.00		93.9

IEC 61672 Class 1 Spec. : ± 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 Spec. (dB)	
Time Weighting	Frequency Weighting	Level (dB)	Freq. (kHz)			
L _F	A	114.00	1	113.9	Ref.	
L _S				113.9		± 0.3
L _I				113.9		

The test equipment used for calibration are traceable to the Nation Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.

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Certificate No. : C147474

證書編號

6.3 Frequency Weighting

6.3.1 A-Weighting

UUT Setting		Applied Value		UUT Reading (dB)	IEC 61672 Class 1 Spec. (dB)
Time Weighting	Frequency Weighting	Level (dB)	Freq.		
L _F	A	94.00	63 Hz	87.6	-26.2 ± 1.5
			125 Hz	97.7	-16.1 ± 1.5
			250 Hz	105.2	-8.6 ± 1.4
			500 Hz	110.6	-3.2 ± 1.4
			1 kHz	113.9	Ref.
			2 kHz	115.1	+1.2 ± 1.6
			4 kHz	114.7	+1.0 ± 1.6
			8 kHz	112.4	-1.1(+2.1 ; -3.1)
			12.5 kHz	108.3	-4.3(+3.0 ; -6.0)

6.3.2 C-Weighting

UUT Setting		Applied Value		UUT Reading (dB)	IEC 61672 Class 1 Spec. (dB)
Time Weighting	Frequency Weighting	Level (dB)	Freq.		
L _F	C	94.00	63 Hz	113.0	-0.8 ± 1.5
			125 Hz	113.7	-0.2 ± 1.0
			250 Hz	113.8	0.0 ± 1.0
			500 Hz	113.9	0.0 ± 1.0
			1 kHz	113.9	Ref.
			2 kHz	113.7	-0.2 ± 1.0
			4 kHz	112.9	-0.8 ± 1.0
			8 kHz	110.5	-3.0 (+1.5 ; -3.0)
			12.5 kHz	106.4	-6.2 (+3.0 ; -6.0)

Remarks : - UUT Microphone Model No. : CEL-251 & S/N : 1950

- Mfr's Spec. : IEC 61672 Class 1

- Uncertainties of Applied Value :

114 dB	: 63 Hz - 125 Hz	: ± 0.45 dB
	250 Hz - 500 Hz	: ± 0.40 dB
	1 kHz	: ± 0.30 dB
	2 kHz - 4 kHz	: ± 0.45 dB
	8 kHz	: ± 0.55 dB
	12.5 kHz	: ± 0.80 dB
104 dB	: 1 kHz	: ± 0.10 dB (Ref. 114 dB)
94 dB	: 1 kHz	: ± 0.10 dB (Ref. 114 dB)

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

Note :

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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輝創工程有限公司

Sun Creation Engineering Limited

Calibration and Testing Laboratory

Certificate of Calibration

校正證書

Certificate No. : C153242

證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號 : IC15-1330)

Date of Receipt / 收件日期 : 10 June 2015

Description / 儀器名稱 : Sound Level Meter

Manufacturer / 製造商 : Rion

Model No. / 型號 : NL-31

Serial No. / 編號 : 00320533

Supplied By / 委託者 : Envirotech Services Co.

Shop 6, G/F., Casio Mansion, 209 Shaukeiwan Road,
Hong Kong

TEST CONDITIONS / 測試條件

Temperature / 溫度 : (23 ± 2)°C

Relative Humidity / 相對濕度 : (55 ± 20)%

Line Voltage / 電壓 : ---

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期 : 14 June 2015

TEST RESULTS / 測試結果

The results apply to the particular unit-under-test only.


All results are within manufacturer's specification.

The results are detailed in the subsequent page(s).

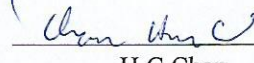
The test equipment used for calibration are traceable to National Standards via :

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory
- Agilent Technologies / Keysight Technologies
- Rohde & Schwarz Laboratory, Germany
- Fluke Everett Service Center, USA

Tested By :
測試


K C Lee
Project Engineer

Certified By :
核證


H C Chan
Engineer

Date of Issue : 16 June 2015
簽發日期

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Sun Creation Engineering Limited - Calibration & Testing Laboratory

c/o 4/F, Tsing Shan Wan Exchange Building, 1 Hing On Lane, Tuen Mun, New Territories, Hong Kong

輝創工程有限公司 - 校正及檢測實驗室

c/o 香港新界屯門興安里一號青山灣機樓四樓

Tel/電話: 2927 2606

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E-mail/電郵: callab@suncreation.com

Website/網址: www.suncreation.com

Page 1 of 4

Certificate of Calibration

校正證書

Certificate No. : C153242

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 using the internal standard (After Adjustment) was performed before the test form 6.1.1.2 to 6.4.
3. The results presented are the mean of 3 measurements at each calibration point.
4. Test equipment :

<u>Equipment ID</u>	<u>Description</u>	<u>Certificate No.</u>
CL280	40 MHz Arbitrary Waveform Generator	C150014
CL281	Multifunction Acoustic Calibrator	DC130171

5. Test procedure : MA101N.

6. Results :

- 6.1 Sound Pressure Level

- 6.1.1 Reference Sound Pressure Level

- 6.1.1.1 Before Adjustment

UUT Setting				Applied Value		UUT Reading (dB)	IEC 60651 Type 1 Spec. (dB)
Range (dB)	Mode	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)		
30 - 120	L _A	A	Fast	94.00	1	93.4	± 0.7

- 6.1.1.2 After Adjustment

UUT Setting				Applied Value		UUT Reading (dB)	IEC 60651 Type 1 Spec. (dB)
Range (dB)	Mode	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)		
30 - 120	L _A	A	Fast	94.00	1	94.0	± 0.7

- 6.1.2 Linearity

UUT Setting				Applied Value		UUT Reading (dB)
Range (dB)	Mode	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)	
30 - 120	L _A	A	Fast	94.00	1	94.0 (Ref.)
				104.00		104.0
				114.00		114.0

IEC 60651 Type 1 Spec. : ± 0.4 dB per 10 dB step and ± 0.7 dB for overall different.

The test equipment used for calibration are traceable to the Nation Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.

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Certificate of Calibration

校正證書

Certificate No. : C153242

證書編號

6.2 Time Weighting

6.2.1 Continuous Signal

UUT Setting				Applied Value		UUT Reading (dB)	IEC 60651 Type 1 Spec. (dB)
Range (dB)	Mode	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)		
30 - 120	L _A	A	Fast	94.00	1	94.0	Ref.
			Slow			94.0	± 0.1

6.2.2 Tone Burst Signal (2 kHz)

UUT Setting				Applied Value		UUT Reading (dB)	IEC 60651 Type 1 Spec. (dB)
Range (dB)	Mode	Frequency Weighting	Time Weighting	Level (dB)	Burst Duration		
20 -110	L _A	A	Fast	106.00	Continuous	106.0	Ref.
	L _{Amax}				200 ms	105.0	-1.0 ± 1.0
	L _A	Slow	Continuous		106.0	Ref.	
	L _{Amax}		500 ms		102.0	-4.1 ± 1.0	

6.3 Frequency Weighting

6.3.1 A-Weighting

UUT Setting				Applied Value		UUT Reading (dB)	IEC 60651 Type 1 Spec. (dB)
Range (dB)	Mode	Frequency Weighting	Time Weighting	Level (dB)	Freq.		
30 - 120	L _A	A	Fast	94.00	31.5 Hz	54.3	-39.4 ± 1.5
					63 Hz	67.8	-26.2 ± 1.5
					125 Hz	77.8	-16.1 ± 1.0
					250 Hz	85.3	-8.6 ± 1.0
					500 Hz	90.8	-3.2 ± 1.0
					1 kHz	94.0	Ref.
					2 kHz	95.3	+1.2 ± 1.0
					4 kHz	95.1	+1.0 ± 1.0
					8 kHz	93.0	-1.1 (+1.5; -3.0)
					12.5 kHz	90.1	-4.3 (+3.0; -6.0)

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Certificate of Calibration

校正證書

Certificate No. : C153242
證書編號

6.3.2 C-Weighting

UUT Setting				Applied Value		UUT Reading (dB)	IEC 60651 Type 1 Spec. (dB)
Range (dB)	Mode	Frequency Weighting	Time Weighting	Level (dB)	Freq.		
30 - 120	L _C	C	Fast	94.00	31.5 Hz	90.6	-3.0 ± 1.5
					63 Hz	93.0	-0.8 ± 1.5
					125 Hz	93.8	-0.2 ± 1.0
					250 Hz	94.0	0.0 ± 1.0
					500 Hz	94.0	0.0 ± 1.0
					1 kHz	94.0	Ref.
					2 kHz	93.9	-0.2 ± 1.0
					4 kHz	93.4	-0.8 ± 1.0
					8 kHz	91.1	-3.0 (+1.5; -3.0)
					12.5 kHz	88.2	-6.2 (+3.0; -6.0)

6.4 Time Averaging

UUT Setting				Applied Value					UUT Reading (dB)	IEC 60804 Type 1 Spec. (dB)	
Range (dB)	Mode	Frequency Weighting	Integrating Time	Freq. (kHz)	Burst Duration (ms)	Burst Duty Factor	Burst Level (dB)	Equivalent Level (dB)			
20 - 110	L _{Aeq}	A	10 sec.	4	1	1/10	110.0	100	100.0	± 0.5	
			60 sec.					1/10 ²	90	90.0	± 0.5
								1/10 ³	80	80.0	± 1.0
								1/10 ⁴	70	70.0	± 1.0
5 min.											

Remarks : - UUT Microphone Model No. : UC-53A & S/N : 320128

- Mfr's Spec. : IEC 60651 Type 1 & IEC 60804 Type 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
	12.5 kHz	: ± 0.70 dB
104 dB	1 kHz	: ± 0.10 dB (Ref. 94 dB)
114 dB	1 kHz	: ± 0.10 dB (Ref. 94 dB)
	Burst equivalent level	: ± 0.2 dB (Ref. 110 dB continuous sound level)

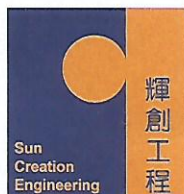
- The uncertainties are for a confidence probability of not less than 95 %.

Note :

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輝創工程有限公司

Sun Creation Engineering Limited

Calibration and Testing Laboratory

Certificate of Calibration

校正證書

Certificate No. : C147473

證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號 : IC14-3079) Date of Receipt / 收件日期 : 5 December 2014

Description / 儀器名稱 : Acoustic Calibrator

Manufacturer / 製造商 : Casella

Model No. / 型號 : CEL-120/1

Serial No. / 編號 : 3421612

Supplied By / 委託者 : Envirotech Services Co.

Shop 6, G/F., Casio Mansion, 209 Shaukeiwan Road,
Hong Kong

TEST CONDITIONS / 測試條件

Temperature / 溫度 : $(23 \pm 2)^{\circ}\text{C}$

Relative Humidity / 相對濕度 : $(55 \pm 20)\%$

Line Voltage / 電壓 : ---

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期 : 14 December 2014

TEST RESULTS / 測試結果

The results apply to the particular unit-under-test only.

All results are within manufacturer's specification.


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
- Agilent Technologies / Keysight Technologies
- Rohde & Schwarz Laboratory, Germany
- Fluke Everett Service Center, USA

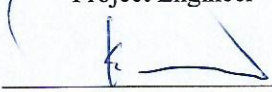
Tested By

測試


K C Lee
Project Engineer

Certified By

核證


K K Wong
Engineer

Date of Issue

簽發日期

17 December 2014

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Sun Creation Engineering Limited - Calibration & Testing Laboratory

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Website/網址: www.suncreation.com

Certificate of Calibration

校正證書

Certificate No. : C147473

證書編號

- The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 12 hours before the commencement of the test.
- The results presented are the mean of 3 measurements at each calibration point.
- Test equipment :

<u>Equipment ID</u>	<u>Description</u>	<u>Certificate No.</u>
CL130	Universal Counter	C143868
CL281	Multifunction Acoustic Calibrator	DC130171
TST150A	Measuring Amplifier	C141558

- Test procedure : MA100N.

- Results :

5.1 Sound Level Accuracy

UUT Nominal Value	Measured Value (dB)	Mfr's Spec. (dB)	Uncertainty of Measured Value (dB)
94 dB, 1 kHz	94.0	± 0.25	± 0.2
114 dB, 1 kHz	114.1		

5.2 Frequency Accuracy

UUT Nominal Value (kHz)	Measured Value (kHz)	Mfr's Spec.	Uncertainty of Measured Value (Hz)
1	1.000 0	1 kHz ± 5 Hz	± 0.1

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

Note :

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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輝創工程有限公司

Sun Creation Engineering Limited

Calibration and Testing Laboratory

Certificate of Calibration

校正證書

Certificate No. : C153924

證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號 : IC15-1508)

Date of Receipt / 收件日期 : 6 July 2015

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.

Shop 6, G/F., Casio Mansion, 209 Shaukeiwan Road,
Hong Kong

TEST CONDITIONS / 測試條件

Temperature / 溫度 : $(23 \pm 2)^{\circ}\text{C}$

Relative Humidity / 相對濕度 : $(55 \pm 20)\%$

Line Voltage / 電壓 : ---

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期 : 20 July 2015

TEST RESULTS / 測試結果

The results apply to the particular unit-under-test only.

All results are within manufacturer's specification.

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
- Agilent Technologies / Keysight Technologies
- Rohde & Schwarz Laboratory, Germany
- Fluke Everett Service Center, USA

Tested By

測試

H T Wong

Assistant Technical Officer

Certified By

核證

K/C Lee

Project Engineer

Date of Issue

簽發日期

22 July 2015

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Page 1 of 2

Certificate of Calibration

校正證書

Certificate No. : C153924

證書編號

- The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 12 hours before the commencement of the test.
- The results presented are the mean of 3 measurements at each calibration point.
- Test equipment :

<u>Equipment ID</u>	<u>Description</u>	<u>Certificate No.</u>
CL130	Universal Counter	C153519
CL281	Multifunction Acoustic Calibrator	DC130171
TST150A	Measuring Amplifier	C141558

- Test procedure : MA100N.

- Results :

5.1 Sound Level Accuracy

UUT Nominal Value	Measured Value (dB)	Mfr's Spec. (dB)	Uncertainty of Measured Value (dB)
94 dB, 1 kHz	93.8	± 0.2	± 0.2
114 dB, 1 kHz	113.8		

5.2 Frequency Accuracy

UUT Nominal Value (kHz)	Measured Value (kHz)	Mfr's Spec.	Uncertainty of Measured Value (Hz)
1	1.000	1 kHz ± 1 %	± 1

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

Note :

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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Annex 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	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 1. Submit noise mitigation proposals to IEC; 2. Implement noise mitigation proposals.
Limit Level	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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.

Annex G

Summary of Implementation Status

Annex G Implementation Schedule for Environmental Protection Measures

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
<i>Cultural Heritage</i>					
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	No field work in the reporting month.
S3.9.2	S3.3.1	<u>Vibration Monitoring</u> 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	√
S3.9.2	S3.3.3	<u>Compliance of the Approved Measures and Auditing</u> 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
		<p>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.</p> <p>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.</p>			
S3.9.3	S3.3.4	<p><u>Archival Recording</u></p> <p>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.</p>	Whole Site	During detailed design, construction and prior to operation	N/A – Archival recording will be conducted at later stage.
S3.7.3	-	<p><u>General Construction Methods</u></p> <p>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</p>	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	-	<p>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:</p> <ul style="list-style-type: none"> • 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. <p>One set of updated CMP shall be submitted to the AMO for approval before the operation stage of the project.</p>	Whole site	During detailed design, construction, post-construction and operation	√ - CMP was implemented during the reporting month. There were no updates for the CMP.

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
<i>Landscape & Visual</i>					
S4.7.27	-	<p><u><i>In-situ Tree Protection - Cordon Zone (CZ)</i></u></p> <p>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.</p>	Whole site	During construction	<p>√ - Part of the cordon zone of Tree-5 has been used as a worker storage room. The Contractor was recommended to pay utmost attention to potential land pollution at the worker storage room at all times.</p> <p>Scaffolding has been set up close to Tree-5 within the cordon zone. The Contractor was reminded to perform proper measures to protect Tree-5 during the carrying out of works within the cordon zone.</p>
S4.7.2	-	<p><u><i>In-situ Tree Protection - Advanced & Phased Root Pruning</i></u></p> <p>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.</p>	Whole site	During construction	N/A – no root pruning has been conducted yet
S4.7.2	-	<p><u><i>In-situ Tree Protection - Foliage cleansing system</i></u></p> <p>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</p>	Whole site	During construction	√

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	<p><u>In-situ Tree Protection - Monthly inspection</u></p> <p>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.</p>	Whole site	During construction	√
S4.7.2	-	<p><u>Light Control</u></p> <p>Control of night-time lighting shall be implemented to minimise impact to adjacent VSRs.</p>	Whole site	During construction and operation	√
S4.7.2	S4	<p><u>Compensatory Tree Planting</u></p> <p>A new planting site has been identified for compensatory tree planting in the Parade Ground. The planting is to compensate for felling of T10. The existing tree site will be enlarged to become a wide tree strip to accommodate at least six trees. The entire strip of land that accommodates T1 to T4 should be revamped to improve the soil condition for future tree growth.</p> <p>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</p>	At identified compensatory tree planting location at the Parade Ground	During detailed design and construction	N/A – Compensatory Tree Planting will be conducted at later stage.

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
		<p>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.</p> <p>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. T10 has a DBH of 20 cm (Table 4.3), and it is proposed that six trees of heavy standard size be planted, each with a DBH of around 10 cm and root balls of not less than 0.75 m diameter and 0.75 m depth,. Since the aggregate DBH of the new trees would be 60 cm, the rate of compensation is equivalent to three times the DBH of T10, far beyond the requirements</p> <p>The six replacement trees should be planted in the new tree strip in two staggered rows, maximising distance between each tree to avoid mutual interference in the future. It is recommended that the species selected should have a small final dimension of less than 10 m height given the proximity to built structures such as the retaining wall and buildings. Two each of the outstanding and related flowering tree species connected to local natural history are suggested::</p> <ul style="list-style-type: none"> – <i>Bauhinia</i> ‘Blakeana’ a native evergreen species with deep mauve flowers and an exceptionally long flowering period from late autumn to early spring. – <i>Bauhinia purpure</i>, a native evergreen with lighter purple flowers from late autumn to early winter. – <i>Bauhinia variegata</i>, an exotic deciduous species, with pale pinkish flowers in spring to early summer often when the tree has little or no leaves. 			
S4.7.2	S4	<p><u>Vertical Greening</u></p> <p>Within the limitations of the conservation of the CPS character, greening of vertical structures should be provided where possible.</p> <p>As such it is recommended that the inner southern wall of the Site be planted as a green wall. The plantings should be inserted in between each of the large protruding piers and an offset be made from both the</p>	Inner Southern Wall	During detailed design and construction	N/A – No vertical greening was conducted during the reporting month.

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
		top and bottom edge so that old and new are equally visible. An independent frame should be strategically positioned in order to ensure minimal disturbance to the original wall, and provide the main structural support and planting surface for the green wall. The frame on to which the new green will be planted should contain its own irrigation system so that moisture for the plants will remain mainly on the planting surface and not the existing wall behind. The planting chosen should be appropriate to the Hong Kong climate, requiring relatively little maintenance to sustain the quality of both plants and wall.			
S4.7.2	-	<u>New Custom Paving</u> 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 – No custom paving was conducted during the reporting month.
S4.7.2	S4	<u>In-situ Tree Protection - Quarterly inspection</u> 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 – The quarterly inspection will be conducted at later stage.
<i>Noise</i>					
S5.9	-	The following site practices should be followed during the construction of the Project: <ul style="list-style-type: none"> • 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; 	Whole Site	During construction	√

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
		<ul style="list-style-type: none"> 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. 			
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	√
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	√
S5.9	-	Use quiet PME as far as practicable to mitigate the construction noise impact.	Whole Site	During construction	√
S5.9	-	Scheduling of construction activities with identified grouping of PMEs.	Whole Site	During construction	√
S5.11	S5	Weekly noise monitoring will be undertaken at the representative NSRs N2 Ho Fook Building and N5 Chancery House. Monthly site audits will be conducted to ensure that the recommended mitigation measures are properly implemented during the construction stage.	Whole Site	During construction	√
<i>Air Quality</i>					
S6.8.1	-	Dust control measures stipulated in the <i>Air Pollution Control (Construction Dust) Regulation</i> will be implemented during the construction phase to control the potential fugitive dust emissions.	Whole Site	During construction	√

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
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	√
S6.8.1	-	Impervious sheet will be provided for skip hoist for material transport.	Whole Site	During construction	√
S6.8.1	-	Vehicle washing facilities will be provided at the designated vehicle exit points.	Whole Site	During construction	√
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	√
S6.8.1	-	Road sections between vehicle-wash areas and vehicular entrances will be paved.	Whole Site	During construction	√
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	√
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	√
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	√

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
S6.8.1	-	ULSD will be used for all construction plant on-site.	Whole Site	During construction	√
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	N/A – Not observed.
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	√
<i>Water Quality</i>					
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 <i>Appendix A1 of ProPECC PN 1/94</i> . 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	N/A – Not observed.
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 – Not observed.
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	√

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
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	N/A – Not observed.
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 <i>ProPECC PN 1/94</i> . Particular attention will be paid to the control of silty surface runoff during storm events.	Whole Site	During construction	N/A – Not observed.
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	N/A – Not observed.
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.
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.
S7.6	-	Waste streams classifiable as chemical wastes will be properly stored, collected and treated.	Whole Site	During construction	√
S7.6	-	All fuel tanks and chemical storage areas will be provided with locks and be sited on paved areas.	Whole Site	During construction	√
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	√
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	√

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
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.
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.
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	√
<i>Waste Management</i>					
S8.5	S6.3.1 & Table 6.1	<u>General</u> 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	-	<u>Management of Waste Disposal</u> 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 system will be included as one of the contractual requirements and implemented by the contractor.	Whole Site	During construction	√

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
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	<u>Reduction of Construction Waste Generation</u> 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	<u>Chemical Waste</u> 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: <ul style="list-style-type: none"> • 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 <i>Schedule 2 of the Regulations</i>. 	Whole Site	During construction and operation	√
S8.5	S6	Storage areas for chemical waste shall: <ul style="list-style-type: none"> • 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 • Be arranged so that incompatible materials are appropriately separated. 	Whole Site	During construction and operation	√

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
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	<u>General Refuse</u> 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	√
S8.5	S6	<u>Staff Training</u> 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	√

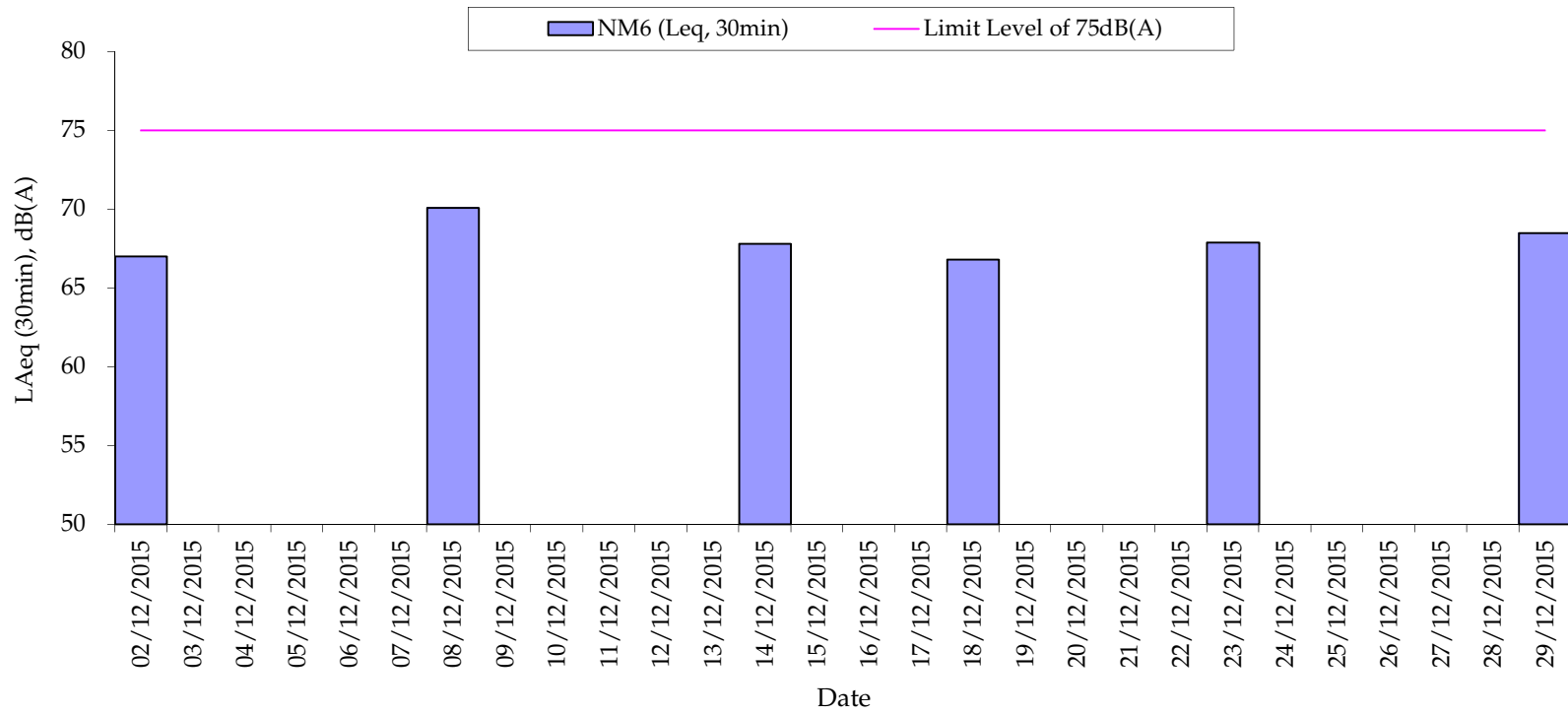
Remark:

- √ Compliance of Mitigation Measures
- <> Compliance of Mitigation but need improvement
- x Non-compliance of Mitigation Measures
- ▲ Non-compliance of Mitigation Measures but rectified by Gammon Construction Ltd
- Δ Deficiency of Mitigation Measures but rectified by Gammon Construction Ltd
- N/A Not Applicable in Reporting Period

Annex H

Noise Monitoring Results

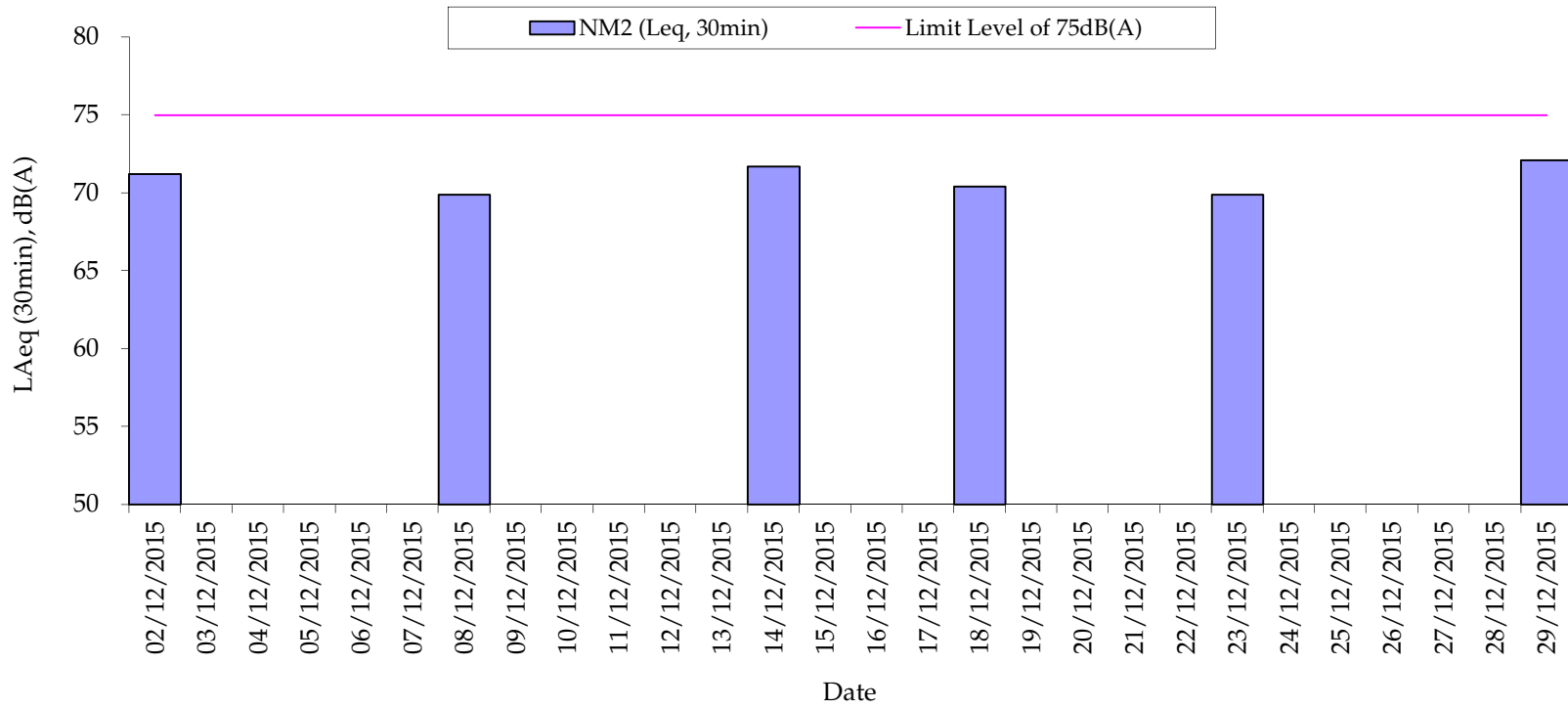
Normal Weekdays Noise Monitoring Results at NM6 - Chancery Mansion (Leq, 30min)



Remark:

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

Normal Weekdays Noise Monitoring Results at NM2 - Ho Fook Building (Leq, 30min)



Remark:

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

Annex I

Construction Programme for the Project

Activity ID	Activity Description	Dur Calendar Days	Forecast Start	Forecast Finish	SA Programme Planned Start	SA Programme Planned Finish	2015												2016												2017												2018											
							F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	
EXISTING BUILDINGS (BA14)																																																						
Block 1																																																						
01010	BLOCK 1 - POLICE HEADQUARTERS	1,032	03OCT12A	05FEB16	03OCT12*	31JUL15	BLOCK 1 - POLICE HEADQUARTERS																																															
Block 2																																																						
02010	BLOCK 2 - ARMOURY & STORE	870	03MAY13A	03FEB16	03MAY13*	19SEP15	BLOCK 2 - ARMOURY & STORE																																															
Block 3																																																						
03010	BLOCK 3 - BARRACK BLOCK	1,067	21MAR13A	08MAR16	21MAR13*	20FEB16	BLOCK 3 - BARRACK BLOCK																																															
Block 4																																																						
04010	BLK 4-DORM BLKA&B (SEE SEPARATE PROGRAMME SUBM)	963	12AUG13A	30SEP16	12AUG13*	31MAR16	BLK 4-DORM BLKA&B (SEE SEPARATE PROGRAMME SUBM)																																															
Block 6																																																						
06010	BLOCK 6 - DORMITORY BLOCK C	951	18FEB13A	25JAN16	18FEB13*	26SEP15	BLOCK 6 - DORMITORY BLOCK C																																															
Block 7																																																						
07010	BLOCK 7 - DORMITORY BLOCK D	898	19MAR13A	22JAN16	19MAR13*	02SEP15	BLOCK 7 - DORMITORY BLOCK D																																															
Block 9																																																						
09010	BLOCK 9 - CENTRAL MAGISTRACY	948	17JUN13A	11JUN16	17JUN13*	20JAN16	BLOCK 9 - CENTRAL MAGISTRACY																																															
Block 10																																																						
10010	BLOCK 10 - SUPERINTENDENT HOUSE	1,059	11JAN13A	19MAR16	11JAN13*	05DEC15	BLOCK 10 - SUPERINTENDENT HOUSE																																															
Block 11																																																						
11010	BLOCK 11 - A HALL	1,069	10NOV12A	10MAR16	10NOV12*	14OCT15	BLOCK 11 - A HALL																																															
Block 12																																																						
12010	BLOCK 12 - B HALL	1,080	10NOV12A	18MAR16	10NOV12*	25OCT15	BLOCK 12 - B HALL																																															
Block 19																																																						
19010	BLOCK 19	798	01AUG13A	20FEB16	01AUG13*	07OCT15	BLOCK 19																																															
EXTERNAL WORKS																																																						
ST060	REMAINING HARD & SOFT LANDSCAPING	121	05FEB16*	04JUN16	18DEC15*	26APR16	REMAINING HARD & SOFT LANDSCAPING																																															
ST065	RESIDUAL WORKS	37	05JUN16	11JUL16	27APR16	31MAY16	RESIDUAL WORKS																																															
NON-OP BUILDINGS CLOSE OUT ACTIVITIES																																																						
EXCEPT BLOCK 4 & 9																																																						
ST130	MOE PAVING EXCEPT BLK 4 & 9	94	24SEP15A	04FEB16	15SEP15*	17DEC15	MOE PAVING EXCEPT BLK 4 & 9																																															
ST140	TEST & COMMISSION FOR FSI (EXCEPT BLK 4 & 9)	44	21DEC15A	04FEB16	01SEP15*	18DEC15	TEST & COMMISSION FOR FSI (EXCEPT BLK 4 & 9)																																															
ST150	SUBMIT F251/314A TO FSD (EXCEPT BLK 4 & 9)	0	05FEB16		18DEC15		SUBMIT F251/314A TO FSD (EXCEPT BLK 4 & 9)																																															
ST205	SUBMIT FORM BA14 (EXCEPT BLK 4 & 9)	0	10MAR16		20JAN16		SUBMIT FORM BA14 (EXCEPT BLK 4 & 9)																																															
BLOCK 9																																																						
ST370	MOE PAVING BLK 9	45	08MAR16	21APR16			MOE PAVING BLK 9																																															
ST380	TEST & COMMISSION FOR FSI (BLK 9)	45	08MAR16	21APR16			TEST & COMMISSION FOR FSI (BLK 9)																																															
ST390	SUBMIT F251/314A TO FSD (BLK 9)	0	22APR16				SUBMIT F251/314A TO FSD (BLK 9)																																															
ST410	SUBMIT FORM BA14 (BLK 9)	0	26MAY16				SUBMIT FORM BA14 (BLK 9)																																															
BLOCK 4																																																						
ST265	MOE PAVING BLK 4 TENTATIVE	45	29JUN16	12AUG16	30JAN16	14MAR16	MOE PAVING BLK 4 TENTATIVE																																															
ST270	TEST & COMMISSION FOR FSI (BLK 4) TENTATIVE	21	23JUL16	12AUG16	23FEB16	14MAR16	TEST & COMMISSION FOR FSI (BLK 4) TENTATIVE																																															
ST280	SUBMIT F251/314A TO FSD (BLK 4) TENTATIVE	0	13AUG16		15MAR16		SUBMIT F251/314A TO FSD (BLK 4) TENTATIVE																																															

PROGRAMME IMPACT OF AIs AND SITE MEMOS FROM APR 2015 TO DATA DATE OF 07 JAN 2016 IS UNDER ASSESSMENT

Start Date 15MAR12
 Finish Date 21AUG17
 Data Date 07JAN16
 Run Date 11JAN16 11:45

S6A1
CENTRAL POLICE STATION
SUMMARY SUPPLEMENTAL AGREEMENT PROGRAMME FOR NON-OP BUILDINGS & FOOTBRIDGE
 (WITH PROGRESS AS OF 07 JAN 2016)



GCL/P/J3416/SA5/SUM/NOP			
Date	Revision	Checked	Approved

Activity ID	Activity Description	Dur Calendar Days	Forecast Start	Forecast Finish	SA Programme Planned Start	SA Programme Planned Finish	2015												2016												2017												2018											
							F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O			
OP ESSENTIALS																																																						
CENTRAL BASEMENT PLANT ROOM																																																						
01020	CENTRAL BASEMENT PLANT ROOM	1,046	04OCT12A	08JAN16	04OCT12*	27JUL15	[Gantt bar]												CENTRAL BASEMENT PLANT ROOM																																			
BLOCK 8																																																						
08010	BLOCK 8 - ABLUTIONS BLOCK	1,259	23APR12A	13JAN16	23APR12*	03OCT15	[Gantt bar]												BLOCK 8 - ABLUTIONS BLOCK																																			
08020	(FUEL TANK) DG INSPECTION COMPLETE	4	17SEP15A	24SEP15A	07OCT15*	10OCT15	[Gantt bar]												(FUEL TANK) DG INSPECTION COMPLETE																																			
08050	DG INSPECTION COMPLETE	0		24SEP15A		10OCT15	[Gantt bar]												DG INSPECTION COMPLETE Milestone MS5																																			
08080	TESTED & COMMISSIONED FOR FS INSPECTION	0		05JAN16A		18DEC15*	[Gantt bar]												TESTED & COMMISSIONED FOR FS INSPECTION Milestone FS-2																																			
BUILDING A																																																						
08060	DEMOLITION OF BLDG A	0	22MAY15A	12JUN15A	02MAY15*	06JUL15	[Gantt bar]												DEMOLITION OF BLDG A																																			
08070	DEMOLITION OF BLDG A COMPLETE (SUBJECT TO HEC)	0		12JUN15A		06JUL15	[Gantt bar]												DEMOLITION OF BLDG A COMPLETE (SUBJECT TO HEC) Milestone MS3																																			
SITEWIDE SERVICES																																																						
SW010	DRAIN/TERMINAL MANHOLE CONNECT HOLLYWD RD	105	05MAR15A	14AUG15A	05MAR15*	17JUN15	[Gantt bar]												DRAIN/TERMINAL MANHOLE CONNECT HOLLYWD RD																																			
SW015	COMPL DRAIN/TERMINAL MANHOLE CONNECT HOLLYWD RD	0		14AUG15A		17JUN15	[Gantt bar]												COMPL DRAIN/TERMINAL MANHOLE CONNECT HOLLYWD RD Milestone MS2																																			
SW020	DRAIN/TERMINAL MANHOLE CONNECT OLD B. ST	137	09APR15A	29JUL15A	09APR15*	23AUG15	[Gantt bar]												DRAIN/TERMINAL MANHOLE CONNECT OLD B. ST																																			
SW025	COMPL DRAIN/TERMINAL MANHOLE CONNECT OLD B. ST	0		29JUL15A		23AUG15	[Gantt bar]												COMPL DRAIN/TERMINAL MANHOLE CONNECT OLD B. ST Milestone MS4																																			
SW030	BARRACK LANE (ZONE L3 AREA 2) SERVICES	133	17JUN15A	15JAN16	17JUN15*	29OCT15	[Gantt bar]												BARRACK LANE (ZONE L3 AREA 2) SERVICES																																			
SW040	MIDDLE PLATFORM (ZONE M5) - REMAIN SERVICES	119	22JUL15A	13JAN16	30JUN15*	08NOV15	[Gantt bar]												MIDDLE PLATFORM (ZONE M5) - REMAIN SERVICES																																			
SW045	OTHER REMAINING SITEWIDE SERVICES	281	01FEB15A	04FEB16	01FEB15*	08NOV15	[Gantt bar]												OTHER REMAINING SITEWIDE SERVICES																																			
SW050	F S WATER CONNECTION	28	14JAN16*	10FEB16	30OCT15*	26NOV15	[Gantt bar]												F S WATER CONNECTION																																			
SW060	FRESH & FLUSHING WATER CONNECTION	28	04FEB16*	02MAR16	07NOV15*	04DEC15	[Gantt bar]												FRESH & FLUSHING WATER CONNECTION																																			
EVA & MOE PAVING																																																						
EW010	COMPLETE EVA & MOEs PAVING FOR FS INSPECTION	112	24SEP15A	04FEB16	15AUG15*	17DEC15	[Gantt bar]												COMPLETE EVA & MOEs PAVING FOR FS INSPECTION																																			
NEW BUILDINGS & OP EXISTING BUILDINGS																																																						
OBW																																																						
OBW010	OLD BAILEY WING (EXCEPT POST OP FIT OUT)	1,346	30MAR12A	04FEB16	30MAR12*	05DEC15	[Gantt bar]												OLD BAILEY WING (EXCEPT POST OP FIT OUT)																																			
OBW013	MAIN R/F STRUCT SLAB/ROOFLIGHT SUFFT COMPLETE	0		02DEC15A		16NOV15	[Gantt bar]												MAIN R/F STRUCT SLAB/ROOFLIGHT SUFFT COMPLETE Milestone MS6 (affected by AHU design change)																																			
OBW015	TESTED & COMMISSIONED FOR FS INSPECTION	0		05FEB16*		18DEC15*	[Gantt bar]												TESTED & COMMISSIONED FOR FS INSPECTION Milestone FS-1																																			
OBW020	OLD BAILEY WING POST OP FIT OUT	42	25MAR16*	05MAY16	03FEB16	15MAR16	[Gantt bar]												OLD BAILEY WING POST OP FIT OUT																																			
OBW025	B50 AHU running/provide climatic control-Gallery	0	28MAR16*		02DEC15*		[Gantt bar]												B50 AHU running/provide climatic control-Gallery Milestone MS7 (affected by AHU design change)																																			
OBW030	FINAL TESTING & COMMISSIONING	42	24APR16	04JUN16	16MAR16	26APR16	[Gantt bar]												FINAL TESTING & COMMISSIONING																																			
AW																																																						
AW010	ARBUTHNOT WING (EXCEPT POST OP FIT OUT)	1,293	08MAY12A	04FEB16	08MAY12*	21NOV15	[Gantt bar]												ARBUTHNOT WING (EXCEPT POST OP FIT OUT)																																			
AW013	RAKED SEATING-COMplete STRUCT STEEL/INSITU CONC	0		20MAY15A		06JUN15	[Gantt bar]												RAKED SEATING-COMplete STRUCT STEEL/INSITU CONC Milestone MS1																																			
AW015	TESTED & COMMISSIONED FOR FS INSPECTION	0		05JAN16A		18DEC15*	[Gantt bar]												TESTED & COMMISSIONED FOR FS INSPECTION Milestone FS-2																																			
AW020	ARBUTHNOT WING POST OP FIT OUT	42	25MAR16*	05MAY16	03FEB16	15MAR16	[Gantt bar]												ARBUTHNOT WING POST OP FIT OUT																																			
AW030	FINAL TESTING & COMMISSIONING	42	24APR16	04JUN16	16MAR16	26APR16	[Gantt bar]												FINAL TESTING & COMMISSIONING																																			
BLOCK 13																																																						
13010	BLOCK 13 - C HALL	1,043	18JAN13A	15MAR16	18JAN13*	26NOV15	[Gantt bar]												BLOCK 13 - C HALL																																			


PROGRAMME IMPACT FOR AIs AND SITE MEMOS ISSUED FROM APR 2015 TO DATA DATE OF 07 JAN 2016 IS UNDER ASSESSMENT

Start Date	15MAR12	S6A1
Finish Date	21AUG17	
Data Date	07JAN16	
Run Date	11JAN16 11:44	

CENTRAL POLICE STATION
SUMMARY SUPPLEMENTAL AGREEMENT PROGRAMME
FOR ESSENTIALS & OP BUILDINGS, BLOCK 14, 15 & 17
(WITH PROGRESS AS OF 07 JAN 2016)

Sheet 1 of 2

GCL/PJ3416/SA5/SUM/OP			
Date	Revision	Checked	Approved



Annex J

Tree Inspection Reports



欣榮 (香港) 環境管理有限公司

Yan Wing (Hong Kong) Environment Management Limited

香港 新界 沙頭角 新樓街 15 號 二樓
No. 15, San Lau Street, 1/F., Sha Tau Kok, N.T., Hong Kong

Tel: 9776 1987, 2486 2317 Fax: 2482 4667 E-mail: yanwinghk@netvigator.com

Our Ref. : YW/TP/GAMMON/2015/12/1

2nd Jan. 2016

Gammon Construction Limited
28/F Devon House,
TaiKoo Place 979 King's Road
Hong Kong

Tel. 2516 8823
Fax.2516 6260

Attn : Mr. Cliff C.H. LEUNG, Ms. Oley C.T. WONG,

Dear Madam/Sir,

**Summary of Monthly Inspection Report for the Six Existing Trees
at Central Police Station Compound for Dec. 2015
(Contract Ref. : J3416/400.4/D00025)**

Tree No.	Botanical Name	Date of Inspection	Overall Health Condition Good/Fair/Poor	Remarks
Tree-5	<i>Mangifera indica</i> 芒果	4 th Dec. 2015	Fair	1. To keep monitoring on the pest disease on the tree.
Tree-6	<i>Aleurites moluccana</i> 石栗	4 th Dec. 2015	Fair	1. No further action is required.
Tree-7	<i>Aleurites moluccana</i> 石栗	4 th Dec. 2015	Fair	1. No further action is required.
Tree-8	<i>Plumeria rubra</i> 紅雞蛋花	4 th Dec. 2015	Fair	1. No further action is required.
Tree-9	<i>Araucaria cunninghamia</i> 花旗杉	4 th Dec. 2015	Fair	1. No further action is required.
Tree-11	<i>Dracaena marginata</i> 馬尾鐵	4 th Dec. 2015	Poor	1. To keep monitoring on the growth of the tree.



欣榮 (香港) 環境管理有限公司

Yan Wing (Hong Kong) Environment Management Limited

香港 新界 沙頭角 新樓街 15 號 二樓
No. 15, San Lau Street, 1/F., Sha Tau Kok, N.T., Hong Kong

Tel: 9776 1987, 2486 2317 Fax: 2482 4667 E-mail: yanwinghk@netvigator.com

Tree Inspection Reports and Tree Group Inspection Form (Form 1) are attached for your reference and record, please.

I should be much grateful if you could endorse the attached Invoice (No.1101) and fax it to my Office at 2482 4667. Thank you.

Yours faithfully

For and on behalf of
Yan Wing (HK) Environment Management Ltd.



(WONG Pak Hay)
Contract Manager



FORM 1: TREE GROUP INSPECTION FORM

表格 1: 樹群檢查表格

General Information 基本資料

Company 公司:	Gammon Construction Ltd	Name of Tree Inspection officer 巡查人員姓名:	LAU Man Chung
File Ref. 檔案編號:	YW/TP/GAMMON/2015/12/2	Name of Endorsement Officer 覆核人員姓名:	WONG Pak Hay
Date of Inspection 巡查日期:	December 4, 2015		
Project/Contract No. 合約/工程編號:	J3416/400.4/D00025		

Location Information 位置資料

Location 地點:	Central Police Station Compound	Nearby Utility Post No. 就近公用設施編號:	
Location Types 地點類別: Address: _____ (multiple answers allowed) 可選多於一項	<input type="checkbox"/> Roadside 路旁 <input checked="" type="checkbox"/> Open space 空地 <input type="checkbox"/> Exhibition Centre 展覽中心 <input type="checkbox"/> View Point 觀景台 <input type="checkbox"/> Walking / nature trail 行山徑 / 自然徑 <input type="checkbox"/> Others (please specify) 其他 (請說明): _____	<input type="checkbox"/> Community Hall / Centre 社區會堂 / 中心 <input type="checkbox"/> Roadside Planter 路旁花園 <input type="checkbox"/> Rain shelter / pavilion 避雨亭 / 涼亭 <input type="checkbox"/> Sitting out area 休憩處	

General Tree Information 基本樹木資料

* Delete as appropriate 請把不合適的刪除

Main tree species in the group or minority tree species of significant size 在群組內的主要樹種或樹幹胸徑或高度或樹冠範圍較大的樹種 (Note 2)	Approx. number of trees in the relevant species or as a % of tree group 該樹種在群組內的百分比/數目*	Range of tree height (m) 該樹種高度範圍	Overall health condition 整體健康狀況 (good, fair, poor 好, 良, 差)	Overall structural condition 整體結構狀況 (good, fair, poor 好, 良, 差)	Other remarks (Any special tree condition, e.g. dying/dead, pest/disease problem and structural defects; and soil condition 其他評語 (樹木狀況例如: 凋謝/枯樹/病蟲害或結構問題; 及泥土狀況)
<i>Mangifera indica</i> 芒果	17%, 1 No.	16M	FAIR	FAIR	To keep monitoring on the pest disease on the tree.
<i>Aleurites moluccana</i> 石栗	32% 2 Nos.	10-13M	FAIR	FAIR	No further action is required..
<i>Plumeria rubra</i> 紅雞蛋花	17% 1 No.	7M	FAIR	FAIR	No further action is required..
<i>Araucaria cunninghamia</i> 花旗杉	17% 1 No.	13M	FAIR	FAIR	No further action is required..
<i>Dracaena marginata</i> 馬尾鐵	17% 1 No.	8M	FAIR	POOR	To keep monitoring on the growth of the tree.

Target 目標

TARGET (people or property potentially affected by tree/branch failure) 目標 (因樹木倒塌或枝條斷裂而受影響的人或財產)
Does target exist? 目標是否存在? <input checked="" type="checkbox"/> Yes 是 <input type="checkbox"/> No 否
Can target be moved? 能否移除目標? <input type="checkbox"/> Yes 是 <input checked="" type="checkbox"/> No 否
Can the use of site be restricted? 可否限制場地的使用? <input checked="" type="checkbox"/> Yes 是 <input type="checkbox"/> No 否
Frequency of use of location 使用該地點的頻密程度: <input type="checkbox"/> Occasional use 偶爾使用 <input type="checkbox"/> Intermittent use 間歇使用 <input checked="" type="checkbox"/> Frequent use 經常使用 <input type="checkbox"/> Constant use 恆常使用

Identification of Trees for Remedial Action or Detailed Tree Risk Assessment

識別下述樹木, 以便採取風險緩減措施或進行詳細樹木風險評估

Trees falling under the following criteria 樹木屬於以下任何一項或多於一項類別	Number of trees 樹木數量	Remedial action or detailed tree risk assessment 緩減措施或進行詳細樹木風險評估
(1) Trees on complaint list with structural or health problems 投訴個案中, 結構或健康問題的樹木 (Note 1)	NII	
(2) Mature trees belonging to species with brittle wood structure and having unsatisfactory health or structural conditions with failure potential 屬木質脆弱品種並已達成熟期及有倒塌風險的樹木 (Note 1)	NII	
(3) Tree with major defects or health problems 有明顯缺陷或健康問題的樹木 (Note 1)	NII	
(4) Trees growing in very stressful site conditions with failure potential 生長於非常擠壓環境而有倒塌風險的樹木 (Note 1)	NII	



Signature of Tree Inspection Officer :
Signature of Endorsement Officer:

Name of Contractor

Date:

Yan Wing (HK) Environment Management Ltd.

30-12-2015



- Note 1: If remedial action (such as pruning) undertaken cannot mitigate the potential risk of tree or branch failure, detailed tree risk assessment (using Form 2) should be carried out.
備註 1: 若風險緩減措施(如枝幹修剪)仍未能解決倒塌或枝條斷裂的潛在風險，應為該樹進行詳細的樹木風險評估(表格 2)。
- Note 2: Please read in conjunction with TMO's Guidelines on Tree Risk Assessment and Management Arrangement (Para. 4.3. refers.)
備註 2: 請參閱樹木管理辦事處的樹木風險評估安排及管理指引(第 4.3 節)

**Inspection Report for the 6 Existing Trees
at Central Police Station Compound
(Contract Ref. : J3416/400.4/D00025)**

I. TREE NUMBER : Tree-5 *Mangifera indica* 芒果

II. BASIC INFORMATION :

Height (m)	16m	Crown spread (m)	18m
DBH (mm)	1000mm	Overall Health Condition Good/Fair/Poor	Fair
Date of Inspection	4 th December 2015	Last Inspection Date	3 rd November 2015

III. COMMENTS :

1. Overall health condition of the tree is fair.
2. Renovation work is in progress near the tree.
3. The large bare root has been covered with top soil at the time of inspection.
4. Signs of Pest (Mealy Bugs 粉狀介殼蟲) have apparently reduced due to pest control operation on 3rd July 2015.
5. Construction works are in progress outside the cordon zone.

IV. RECOMMENDATIONS :

1. To keep monitoring on the pest disease on the tree.

V. PHOTO RECORD :

Fig 1. Tree number.



Fig 2. A large bare root has exposed on ground surface during inspection on 3rd November 2015.



Fig. 3 The large bare root has been covered with top soil at the time of inspection on 4th December 2015.



Fig. 4 Root collar is normal. The planter appears clean and tidy.



Fig. 5 Health condition of the mid trunk is fair.



Fig. 6 Health condition of the upper trunk also is fair.



Fig. 7 The crown is full of vigorous and green leaves.



Fig. 8 Signs of the Pest (Mealy Bugs 粉狀介殼蟲) have apparently reduced due to pest control operation on 3rd July 2015.



Fig. 9 Renovation work is in progress near Tree-5.



Fig. 10 The access near Tree-5 is clean and tidy.



Fig. 11 Construction works are in progress outside the cordon zone.



Fig. 12 Overall view of Tree-5 during inspection on 4th December 2015.



Signature of Inspection Officer :
(Mr. LAU Man-chung, ISA CA-HK0050A)

Signature of Endorsement Officer :
(Mr. WONG Pak-hay, Contract Manager)

Name of Contractor :

Yan Wing (HK) Environment
Management Ltd.

Dated this :

30th December 2015



**Inspection Report for the 6 Existing Trees
at Central Police Station Compound
(Contract Ref. : J3416/400.4/D00025)**

I. TREE NUMBER : Tree-6 *Aleurites moluccana* 石栗

II. BASIC INFORMATION :

Height (m)	10m	Crown spread (m)	10m
DBH (mm)	510mm	Overall Health Condition Good/Fair/Poor	Fair
Date of Inspection	4 th December 2015	Last Inspection Date	3 rd November 2015

III. COMMENTS :

1. Overall health condition of the tree is fair.
2. Root collar is normal. The planter is covered with mulch and leaves.
3. The crown is full of vigorous and green leaves.
4. The site near the tree is clean and tidy.
5. Construction works are in progress near the tree.

IV. RECOMMENDATIONS :

1. No further action is required.

V. PHOTO RECORD :



Fig. 2. Root collar is normal. The planter is covered with mulch and leaves.



Fig. 3 Health condition of the mid trunk is fair.



Fig. 4 Health condition of the upper trunk also is fair.



Fig. 5 The crown is full of vigorous and green leaves.



Fig. 6 Vigorous and green leaves also appear on the lower branches.



Fig. 7 The small cordon zone is in order at the planter.



Fig. 8 The planter is surrounded by some metallic sheets to act as a cordon zone.



Fig. 9 Many large rocks are placed near the planter.



Fig. 10 Construction works are in progress near Tree-6.



Fig. 11 The site outside the cordon zone is clean and tidy.



Fig. 12 Overall view of Tree-6 during inspection on 4th December 2015.



Signature of Inspection Officer :
(Mr. LAU Man-chung, ISA CA-HK0050A)

Signature of Endorsement Officer :
(Mr. WONG Pak-hay, Contract Manager)

Name of Contractor :

Dated this :



Yan Wing (HK) Environment
Management Ltd

30th December 2015



**Inspection Report for the 6 Existing Trees
at Central Police Station Compound
(Contract Ref. : J3416/400.4/D00025)**

I. TREE NUMBER : Tree-7 *Aleurites moluccana* 石栗

II. BASIC INFORMATION :

Height (m)	13m	Crown spread (m)	12m
DBH (mm)	650mm	Overall Health Condition Good/Fair/Poor	Fair
Date of Inspection	4 th December 2015	Last Inspection Date	3 rd November 2015

III. COMMENTS :

1. Overall health condition of the tree is fair.
2. Root collar is normal. The planter is covered with mulch and leaves.
3. The crown is full of vigorous and green leaves.
4. The site near Tree-7 is clean and tidy.
5. Construction works are in progress outside the cordon zone.

IV. RECOMMENDATIONS :

1. No further action is required.

V. PHOTO RECORD :



Fig 2. Root collar is normal. The planter is covered with mulch and leaves.



Fig. 3 Health condition of the mid trunk is fair.



Fig. 4 Health condition of the upper trunk also is fair.



Fig. 5 The crown is full of vigorous and green leaves.



Fig. 6 Vigorous and green leaves are growing on the lower branches.



Fig. 7 The small cordon zone is in good order.



Fig. 8 The site near Tree-7 is clean and tidy.



Fig. 9 Some construction instruments are placed near the planter.



Fig. 10 Construction works are in progress outside the cordon zone.



Fig. 11 The access outside the cordon zone is clean and tidy.



Fig. 12 Overall view of Tree-7 during inspection on 4th December 2015.



Signature of Inspection Officer :
(Mr. Lau Man-chung, ISA CA-HK0045A)
Signature of Endorsement Officer :
(Mr. WONG Pak-hay, Contract Manager)

Name of Contractor :

Dated this :

Yan Wing (HK) Environment
Management Ltd.

30th December 2015



**Inspection Report for the 6 Existing Trees
at Central Police Station Compound
(Contract Ref. : J3416/400.4/D00025)**

I. TREE NUMBER : Tree-8 *Plumeria rubra* 紅雞蛋花

II. BASIC INFORMATION :

Height (m)	7m	Crown spread (m)	9m
DBH (mm)	430mm	Overall Health Condition Good/Fair/Poor	Fair
Date of Inspection	4 th December 2015	Last Inspection Date	3 rd November 2015

III. COMMENTS :

1. Overall health condition of the tree is fair.
2. Root collar is normal. The planter is covered with mulch and leaves.
3. As the dry season is coming, leaves on the crown become sparse.
4. The access near Tree-8 is clean and tidy.
5. Construction works are in progress outside the cordon zone.

IV. RECOMMENDATIONS :

1. No further action is required.

1. PHOTO RECORD :



Fig 2. Root collar is normal. The planter is covered with mulch and leaves.



Fig. 3 Health condition of the mid trunk is fair.



Fig. 4 Health condition of the upper trunk also is fair.



Fig. 5 As the dry season is coming, leaves on the crown become sparse.



Fig. 6 A few leaves still remain on the tree.



Fig. 7 The small cordon zone is in good order.



Fig. 8 Many bulky items are placed near the planter.



Fig. 9 The site near Tree-8 is clean and tidy.



Fig. 10 Construction works are in progress outside the cordon zone.



Fig. 11 The access near Tree-8 is clean and tidy.



Fig. 12 Overall view of Tree-8 during inspection on 4th December 2015.

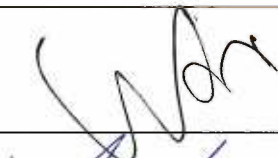


Signature of Inspection Officer :
(Mr. LAU Man-chung, ISA CA-HK0050A)

Signature of Endorsement Officer :
(Mr. WONG Pak-hay, Contract Manager)

Name of Contractor :

Dated this :



Yan Wing (HK) Environment
Management Ltd.

30th December 2015



**Inspection Report for the 6 Existing Trees
at Central Police Station Compound
(Contract Ref. : J3416/400.4/D00025)**

I. TREE NUMBER : Tree - 9 *Araucaria cunninghamia* 花旗杉

II. BASIC INFORMATION :

Height (m)	13m	Crown spread (m)	5m
DBH (mm)	230mm	Overall Health Condition Good/Fair/Poor	Fair
Date of Inspection	4 th December 2015	Last Inspection Date	3 rd November 2015

III. COMMENTS :

1. Overall health condition of the tree is fair.
2. Root collar is normal. The planter appears clean and tidy.
3. Green and vigorous leaves appear on the tree.
4. The site near the tree is clean and tidy.
5. Construction works are in progress outside the cordon zone.

IV. RECOMMENDATIONS :

1. No further action is required.

V. PHOTO RECORD :

Fig 1. Tree number



Fig 2. Root collar is normal. The planter appears clean and tidy.



Fig. 3 Health condition of the mid trunk is fair.



Fig. 4 Health condition of the upper trunk also is fair.



Fig. 5 Vigorous leaves are growing on the lower branches.



Fig. 6 Vigorous and green leaves also appear on the crown.



Fig. 7 The small cordon zone is in good order.



Fig. 8 The site near Tree-9 is clean and tidy.



Fig. 9 Many bulky items are placed near the planter.



Fig. 10 Construction works are in progress outside the cordon zone.



Fig. 11 Cleanliness of the access near Tree-9 is acceptable .



Fig. 12 Overall view of Tree-9 during inspection on 4th December 2015.



Signature of Inspection Officer :
(Mr. LAU Man-chung, ISA CA-HK0050A)

Signature of Endorsement Officer :
(Mr. WONG Pak-hay, Contract Manager)

Name of Contractor :

Dated this :

Yan Wing (HK) Environment
Management Ltd.

30th December 2015



**Inspection Report for the 6 Existing Trees
at Central Police Station Compound
(Contract Ref. : J3416/400.4/D00025)**

I. TREE NUMBER : Tree -11 *Dracaena marginata* 馬尾鐵

II. BASIC INFORMATION :

Height (m)	8m	Crown spread (m)	2m
DBH (mm)	170mm	Overall Health Condition Good/Fair/Poor	Poor
Date of Inspection	4 th December 2015	Last Inspection Date	3 rd November 2015

III. COMMENTS :

1. Overall health condition of the tree is **poor**.
2. The site near Tree-11 is under renovation.
3. **Withered leaves still appear on the tree.**
4. Many construction materials are placed near the planter.

IV. RECOMMENDATIONS :

1. **To keep the site clean and tidy at all times.**
2. **To keep close monitoring on the growth of the tree.**

V. PHOTO RECORD :



Fig. 2 The site near Tree-11 is under renovation.



Fig. 3 Health condition of the lower trunk is fair.



Fig. 4 Health condition of the mid trunk also is fair.



Fig. 5 Many withered leaves are found on the lower branches.



Fig. 6 Health condition of the upper trunk is normal.



Fig. 7 Many withered leaves also appear on the upper branches.



Fig. 8 Health condition of the crown is poor.



Fig. 9 Many construction materials are placed near the planter.



Fig. 10 The small cordon zone is in order.



Fig. 11 The large cordon zone has been removed for renovation work.



Fig. 12 Overall view of Tree-11 during inspection on 4th December 2015.




Signature of Inspection Officer :
(Mr. LAU Man-chung, ISA CA-HK0050A)

Signature of Endorsement Officer :
(Mr. WONG Pak-hay, Contract Manager)

Name of Contractor :

Dated this :


Yan Wing (HK) Environment
Management Ltd.

30th December 2015



Annex K

Environmental Complaint,
Environmental Summons
and Prosecution Log

Annex 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

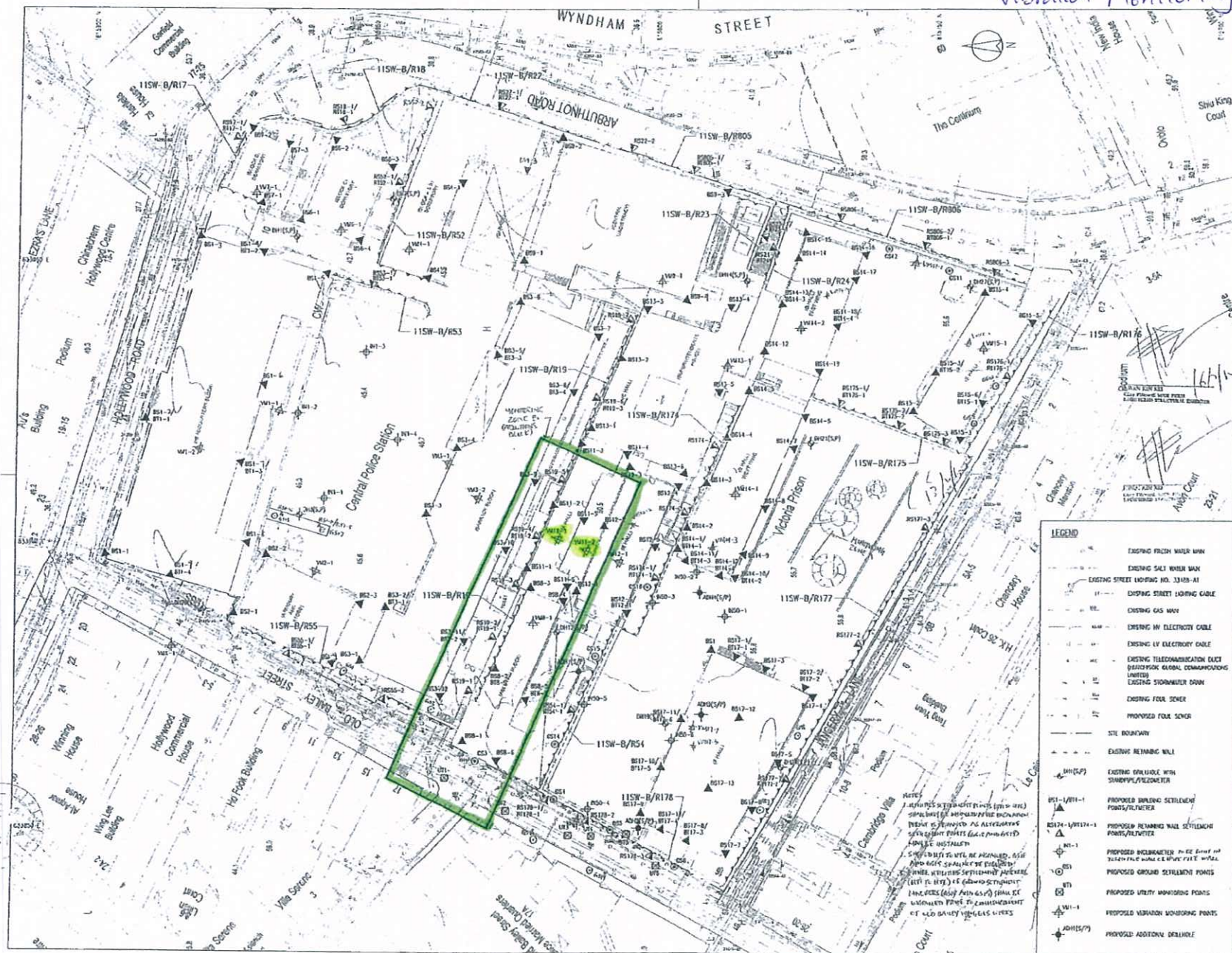
Reporting Month	Number of Complaints in Reporting Month	Number of Summons/Prosecutions in Reporting Month
May 2013	0	0
June 2013	0	0
July 2013	0	0
August 2013	0	0
September 2013	0	0
October 2013	0	0
November 2013	0	0
December 2013	0	0
January 2014	2	0
February 2014	1	0
March 2014	1	0
April 2014	1	0
May 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
Overall Total	30	0

Annex L

Records of Vibration Monitoring for Piling works

Vibration Monitoring at Block 8



115W-B/R17
 115W-B/R18
 115W-B/R22
 115W-B/R23
 115W-B/R24
 115W-B/R25
 115W-B/R26
 115W-B/R27
 115W-B/R28
 115W-B/R29
 115W-B/R30
 115W-B/R31
 115W-B/R32
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 115W-B/R89
 115W-B/R90
 115W-B/R91
 115W-B/R92
 115W-B/R93
 115W-B/R94
 115W-B/R95
 115W-B/R96
 115W-B/R97
 115W-B/R98
 115W-B/R99
 115W-B/R100

LEGEND
 --- EXISTING FRESH WATER MAIN
 --- EXISTING SALT WATER MAIN
 --- EXISTING STREET LIGHTING NO. 13105-A1
 --- EXISTING STREET LIGHTING CABLE
 --- EXISTING GAS MAIN
 --- EXISTING HV ELECTRICITY CABLE
 --- EXISTING LV ELECTRICITY CABLE
 --- EXISTING TELECOMMUNICATION DUCT (BELL/TELUS/GLOBAL COMMUNICATIONS LIMITED)
 --- EXISTING STORMWATER DRAIN
 --- EXISTING FOUR DIMER
 --- PROPOSED FOUR DIMER
 --- SITE BOUNDARY
 --- EXISTING RETAINING WALL
 (MH)(P) EXISTING BRICK/CONCRETE WALL WITH SANDWICH/PLYWOOD LINING
 (MH)(P) PROPOSED BRICK/CONCRETE SETTLEMENT POINTS/RETAINER
 (MH)(P) PROPOSED RETAINING WALL SETTLEMENT POINTS/RETAINER
 (MH)(P) PROPOSED BRICK/CONCRETE IN-PILE DIMER WITH TIE-BACK AND WINDUPE STRAP
 (MH)(P) PROPOSED GROUND SETTLEMENT POINTS
 (MH)(P) PROPOSED UTILITY MONITORING POINTS
 (MH)(P) PROPOSED VIBRATION MONITORING POINTS
 (MH)(P) PROPOSED ADDITIONAL DETAIL

BO SUBMISSION
 Drawing Status: **ISSUED FOR PERMIT**
 This drawing is for information only and does not constitute a contract. It is subject to the terms and conditions of the contract. It is not to be used for any other purpose without the written consent of the Engineer. It is the responsibility of the client to ensure that the drawing is used for the intended purpose.

FILE APPROVED
 Approved by: **Chief Structural Engineer for the Municipality**
 Date: **28 FEB 2012**

Key Plan R/S 502
 Shows the location of Block 8 within the larger site context.

ARUP
 Project: **CENTRAL POLICE STATION CONSERVATION AND REVITALISATION PROJECT**
 Drawing No: **00-04P209674-G-001**

(Block 8 Foundation)

WW 恆誠建築工程有限公司
Win Win Way Construction Company Ltd.

Monitoring Check Pts.	Trigger Levels		
	Alert level	Alarm level	Action level
Vibrating Monitoring	2mm/s	2.5mm/s	3mm/s
#Vibration at largest span of highest Structural level	5.0mm/s	6.0mm/s	7.5mm/s

Vibration Record

Project Title: Central Police Station Conservation & Revitalization Project No: WP201 1-Dec-2015 to 31-Dec-2015

POINT		VM11-1#	VM11-2					
DATE	PD/(m)	mm/s	mm/s					
19-Jun-2012 (Initial)		0.13	0.19					
1-Dec-2015		0.105	0.101					
2-Dec-2015		0.103	0.107					
3-Dec-2015		0.103	0.108					
4-Dec-2015		0.099	0.101					
5-Dec-2015		0.106	0.101					
6-Dec-2015	Sunday							
7-Dec-2015		0.101	0.109					
8-Dec-2015		0.103	0.104					
9-Dec-2015		0.105	0.107					
10-Dec-2015		0.103	0.109					
11-Dec-2015		0.103	0.107					
12-Dec-2015		0.104	0.103					
13-Dec-2015	Sunday							
14-Dec-2015		0.099	0.107					
15-Dec-2015		0.112	0.109					
16-Dec-2015		0.103	0.105					
17-Dec-2015		0.103	0.108					
18-Dec-2015		0.103	0.106					
19-Dec-2015		0.108	0.108					
20-Dec-2015	Sunday							
21-Dec-2015		0.101	0.109					
22-Dec-2015		0.103	0.109					
23-Dec-2015		0.101	0.107					
24-Dec-2015		0.094	0.104					
25-Dec-2015	Holiday							
26-Dec-2015	Holiday							
27-Dec-2015	Sunday							
28-Dec-2015		0.101	0.106					
29-Dec-2015		0.110	0.105					
30-Dec-2015		0.106	0.113					
31-Dec-2015		0.103	0.107					

Annex M

Records of Vibration
Monitoring for Other
Construction Works

Structural Additions and Alterations at Block 11



Note: This plan has been processed on a computer which uses the computerized processing system as specified in Part 14.19. The user of the software must register the user name and password as specified in the user manual and the user must enter the user name and password at the time of the software operation. The user must also enter the user name and password at the time of the software operation.

Revision/Submission 校核/編號

No. 編號	Description 說明	Date 日期	Approved 審核
-	BD SUBMISSION (50)	12/11	JS
A	BD SUBMISSION (01)	03/12	JS
B	BD SUBMISSION (17)	03/12	JS
C	BD SUBMISSION RW BATCH 1	03/12	JS
D	FOR INFORMATION (50)	03/12	JS
E	BD SUBMISSION (51)	05/12	JS
F	BD SUBMISSION (04)	05/12	JS
G	BD SUBMISSION (14)	05/12	JS
H	BD SUBMISSION (14)	05/12	JS
J	BD SUBMISSION RW BATCH 2	05/12	JS
K	BD SUBMISSION (06&07)	07/12	JS
L	BD SUBMISSION (01)	07/12	JS
M	BD SUBMISSION (11)	07/12	JS

Plan Approved
CHIONG Kam-yung Jacky
 Chief Structural Engineer
 for BUILDING AUTHORITY
 - 3 OCT 2012



BD SUBMISSION
 Drawing Status 製圖狀況

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 所有尺寸必須在工地現場核實及量度。
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 如發現圖紙內有任何錯誤之處，應立即通知有關顧問公司。

LEGEND

	EXISTING FRESH WATER MAIN
	EXISTING SALT WATER MAIN
	EXISTING STREET LIGHTING NC. 33488-A1
	EXISTING STREET LIGHTING CABLE
	EXISTING GAS MAIN
	EXISTING HV ELECTRICITY CABLE
	EXISTING LV ELECTRICITY CABLE
	EXISTING TELECOMMUNICATION DUCT (HUTCHISON GLOBAL COMMUNICATIONS LIMITED)
	EXISTING STORMWATER DRAIN
	EXISTING FOUL SEWER
	PROPOSED FOUL SEWER
	SITE BOUNDARY
	EXISTING RETAINING WALL
	EXISTING DRILLHOLE WITH STANDPIPE/PIEZOMETER
	PROPOSED BUILDING SETTLEMENT POINTS/TILTMETER
	PROPOSED RETAINING WALL SETTLEMENT POINTS/TILTMETER
	PROPOSED INCLINOMETER TO BE BUILT IN BORED PILE WALL OR PIPE PILE WALL
	PROPOSED GROUND SETTLEMENT POINTS
	PROPOSED UTILITY MONITORING POINTS
	PROPOSED VIBRATION MONITORING POINTS
	PROPOSED ADDITIONAL DRILLHOLE

Client 業主

 The Jersey Club CP Limited

Design Consultant
HERZOG & DEMEUREN

Conservation Architect

 Rocco

Executive Architect / AP

 ARUP

Structural Engineer / RSE
 E & M Engineer

 JRP

Project 項目
**CENTRAL POLICE STATION
 CONSERVATION AND REVITALISATION
 PROJECT**

Drawing Table 圖名
MONITORING LAYOUT PLAN

Scale 比例
 1:300 @ A1

Drawn 繪圖
 K.C. Lai

Checked 校對
 AL

Drawing No. 圖號
 00-OAP209674-G-001

Revision 校核
 M

Cost file 00-OAP209674-G-001.dwg

Vibration Monitoring Record (December)

	Block 11	
Point	VM11-1	VM11-2
Date	mm/s	mm/s
01-Dec-15	0.105	0.101
02-Dec-15	0.103	0.107
03-Dec-15	0.103	0.108
04-Dec-15	0.099	0.101
05-Dec-15	0.106	0.101
06-Dec-15	Sunday	
07-Dec-15	0.101	0.109
08-Dec-15	0.103	0.104
09-Dec-15	0.105	0.107
10-Dec-15	0.103	0.109
11-Dec-15	0.103	0.107
12-Dec-15	0.104	0.103
13-Dec-15	Sunday	
14-Dec-15	0.099	0.107
15-Dec-15	0.112	0.109
16-Dec-15	0.103	0.105
17-Dec-15	0.103	0.108
18-Dec-15	0.103	0.106
19-Dec-15	0.108	0.108
20-Dec-15	Sunday	
21-Dec-15	0.101	0.109
22-Dec-15	0.103	0.109
23-Dec-15	0.101	0.107
24-Dec-15	0.094	0.104
25-Dec-15	Holiday	
26-Dec-15	Holiday	
27-Dec-15	Sunday	
28-Dec-15	0.101	0.106
29-Dec-15	0.110	0.105
30-Dec-15	0.106	0.113
31-Dec-15	0.103	0.107