#### MONTHLY EM&A REPORT

The Jockey Club CPS Limited

Central Police Station Conservation and Revitalisation Project: Eleventh Monthly EM&A Report (1 September to 30 September 2012)

Issue Date: October 2012

#### **Environmental Resources Management**

16/F

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#### MONTHLY EM&A REPORT

The Jockey Club CPS Limited

# Central Police Station Conservation and Revitalisation Project: Eleventh Monthly EM&A Report (From 1 September to 30 September 2012)

Issue Date: October 2012

Reference 0095646

For and on behalf of				
ERM-Hong	Kong, Limited			
Approved b	,			
Signed:	Warder H.J.			
Position:	Partner			
Certified by	T: What			
	vironmental Team Leader – Winnie Ko)			
Date: _	16 October 2012			

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:** 16 October 2012

# By Fax (2723 5660) and Post

ERM-Hong Kong Limited, 21/F Lincoin House, 979 King's Road, Taikoo Place, Island East, Hong Kong

Attn: Ms Winnie Ko

Dear Winnie,

# Central Police Station Conservation and Revitalization Project Verification of Monthly EM&A Report No.11

We refer to your letter dated 16 October 2012 regarding the Monthly EM&A Report No.11. Atkins China Ltd. 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 Ltd.

Sharifah Or

**Independent Environmental Checker** 

c.c. Mr. KOH Say Wee, HKJC
Mr. Charles Kung, Rocco Design Architect

Fax: 2504 2903 Fax: 2529 2135

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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 eleventh monthly Environmental Monitoring and Audit (EM&A) report presenting the EM&A works carried out during the period from 1 September to 30 September 2012 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:

- Underpinning works, strengthening works and structural alteration works at Block 8;
- Trial piling works (loading test);
- Piling works at Old Bailey Wing (OBW);
- Demolition works at the G/F of Block 17; and
- Preservation by record at the G/F of Block 17.

## **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	5 times
•	Joint environmental site inspection	1 time
•	Joint heritage site inspection	1 time
•	Landscape & visual monitoring	1 time
•	Tree inspection	1 time
•	Vibration monitoring for piling works/demolition works	13 times
•	Vibration monitoring for other construction works	18 times

#### Noise

5 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 Action or Limit Level of construction noise was recorded during the reporting period.

#### Cultural Heritage

13 vibration monitoring were undertaken in September for the piling works at Old Bailey Wing and some demolition works at the Ground Floor of Block 17. 18 vibration monitoring were carried out in September for the structural alternations and additions works at Block 8. No exceedance of the Alert, Alarm and Action Levels was recorded during the reporting period.

Heritage site audit was conducted on 18 September 2012. Cracks were observed internally on the north and west elevation of Block 17, potentially caused by installation of bored pile wall in the Old Bailey Wing area and the cause of it should be further investigated. Additional tilting and settlement monitoring stations were added on all critical vertical load bearing elements on the north elevation of Block 17. The incident was reported to the Building Department on 21 September 2012.

The former visitor booths in F Hall have been labelled and protected and were moved from the building 6 on 19 September 2012.

The follow-up actions recommended in the August audit have been implemented.

#### Landscape & Visual

Landscape and visual monitoring has commenced since October 2011 on a monthly basis. Tree inspection was conducted on 6 September 2012 by the arborist during the reporting period. Cracks at the planter were observed on Trees 6 and 7 and the Contractor was reminded to take remedial actions accordingly. Weeds were observed at the planter of Tree 11 and should be removed.

#### Waste Management

Wastes generated from this Project include inert construction and demolition (C&D) materials and non-inert C&D materials. A total of 227.7 tonnes of inert C&D material were generated during the reporting period. 37.99 tonnes of non-inert C&D materials comprising general refuse were generated and disposed of at the SENT Landfill. 1,410 kg of metals and 383 kg of paper/cardboard packaging were produced and were sent to recyclers for recycling. No plastics waste or chemical waste was generated 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 18 September 2012. Details of the audit finding are presented in *Section 6*.

# Environmental Exceedance/Non-conformance/Compliant/Summons and Prosecution

No exceedance of 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:

- Trial piling works (loading testing);
- Piling works at Old Bailey Wing (OBW);
- Demolition works at Block 8;
- Excavation works at the Parade ground;
- Preservation by record at the Parade ground;
- Scaffolding erection at Block 1; and
- Structural addition and alteration works at Block 1.

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 eleventh EM&A report which summarises the impact monitoring results and audit findings for the EM&A programme during the reporting period from 1 September to 30 September 2012.

#### 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 Requirement

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 weekly 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 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 September to 30 September 2012

#### **Construction Activities Undertaken**

- Underpinning works, strengthening works and structural alteration works at Block 8;
- Trial piling works (loading test);
- Piling works at Old Bailey Wing (OBW);
- Demolition works at the G/F of Block 17; and
- Preservation by record at the G/F of Block 17.

#### 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</i> <i>Pollution Control</i> ( <i>Construction Dust</i> ) <i>Regulation</i>	Ref. No. 332920	Throughout the Contract	-
Registration of Waste Producer under Waste Disposal Ordinance	Waste Producer No.: 5213-122-G2347-25	Throughout the Contract	-
Effluent Discharge License under Water Pollution Control Ordinance	License No. WT00010633-2011	21 Oct 2011 – 31 Oct 2016	-
Notification of Commencement of Asbestos Abatement Work under <i>Air</i> <i>Pollution Control</i> <i>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.:

Permit/ Licences/ Notification	Reference	Validity Period	Remarks
			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	-

#### 3

#### 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

<b>Monitoring Location</b>	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 ( $L_{\rm eq}$ ) in decibels dB(A).  $L_{\rm eq\,(30min)}$  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> Rion NC-73 (S/N 10997142)
	Sound Level Meter
	Rion NL-52 (S/N 00710259)
	Rion NL-31 (S/N 00603867)

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 <sub>eq(30mins), dB(A)</sub>	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 monitoring location is shown in *Annex L*. 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 Works and Piling Works

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

Vibration Monitoring for Other Construction Works

Vibration monitoring for specific construction works other than the demolition and trial piling works/piling works are also required in accordance with Building Department's requirement. The monitoring location is shown in *Annex N*. 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	Horizontal	2.0 mm/s	2.5 mm/s	3.0 mm/s
Monitoring	Movement			

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

#### Table 3.5 Event and Action Plan for Vibration Monitoring

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

#### 3.2.2 Mitigation Measures

Cultural heritage mitigation measures in accordance with the EP, EIA and EM&A Manual were implemented by the Contractor and the implementation status is given in *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 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
EP Condition		
Condition 3.4	Tenth Monthly EM&A Report	14 September 2012

#### MONITORING RESULTS

#### 5.1 Noise

5

A total of 5 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 Action Level or Limit Level of construction noise was recorded during the reporting period.

#### 5.2 CULTURAL HERITAGE

#### 5.2.1 Vibration Monitoring

13 vibration monitoring measurements were undertaken in September for the piling works at Old Bailey Wing and some demolition works on Ground Floor of Block 17. The monitoring readings are shown in *Annex L*.

18 vibration monitoring measurements were carried out in September for the underpinning works at Block 8. The monitoring readings are presented in *Annex M*.

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

#### 5.2.2 Heritage Site Audit

Monthly heritage site audit was conducted on 18 September 2012 by the Heritage Checker and the observations are summarised below:

- One of the trials for the cleaning of external walls was not carried out.
   The Contractor was reminded that all protection works to the building should be implemented. It was later rectified where a new trial for the cleaning has been organised.
- 2. Cracks were observed internally on the north and west elevation of Block 17, potentially caused by installation of bored pile wall in the adjacent area (Old Bailey Wing) and the cause of it should be further investigated. Additional tilting and settlement monitoring stations were added on all critical vertical load bearing elements on the north elevation of Block 17. Tell-tale crack monitor was installed on 28 August 2012 to monitor the

wall cracking status. The incident was reported to BD on 21 September 2012.

3. The former visitor booths in F Hall have been labelled and protected and were moved from the building 6 on 19 September 2012.

The follow-up actions recommended in the August audit have been implemented.

#### 5.3 LANDSCAPE AND VISUAL

The tree inspection was conducted by the arborist on 6 September 2012 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	Mangifera indica	Good	No further action required.
Tree -6	Aleurites moluccana	Fair	• Cracks at the planter were observed getting worse. The Contractor was recommended to take remedial works (1).
Tree-7	Aleurites moluccana	Fair	<ul> <li>Cracks at the planter were observed getting worse. The Contractor was recommended to take remedial works <sup>(1)</sup>.</li> </ul>
			<ul> <li>Water pipe on the top of Tree-7 was observed damage. The Contractor was recommended to repair the broken water pipe asap.</li> </ul>
Tree-8	Plumeria rubra	Fair	No further action required.
Tree-9	Araucaria cunninghamia	Fair	No further action required.
Tree-11	Dracaena marginata	Fair	<ul> <li>Weeds were observed at the planter and the Contractor was reminded to remove all the weeds from the planter</li> </ul>

Cracks observed may be due to upward growth of the tree roots potentially caused by load testing being carried out nearby.

#### 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. 1,410 kg of metals and 383 kg of paper/cardboard packaging were generated and sent to recyclers for recycling. No plastics waste or chemical waste was generated during the reporting period.

Table 5.2 Quantities of Waste Generated from the Project

Month / Year			Quantity	7			
	C&D	C&D	Chemical Waste		Recycled materials		
	Materials	Materials					
	(inert) (a)	(non-inert)	Solid	Liquid	Paper /	Plastics	Metals
		(b)			card board		
September 2012	227.7	37.99	0 kg	0 L	383 kg	0 kg	1,410 kg
	tonnes	tonnes					

#### 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 18 September 2012. There was no non-compliance recorded during the site inspection.

#### Follow-up Actions for the Last Site Audit

Leaves accumulated in the U-channel near Block 3 observed in the last site inspection have been removed. According to the Contractor, the U-channel will be cleaned twice a week.

#### Observations and Recommendations of this Reporting Month

Some Waste Electrical and Electronic Equipment (WEEE) were observed being stored with the C&D materials in Block 17 during the site inspection. The Contractor was reminded to store WEEE separately from the C&D materials and arrange appropriate recycling or disposal of these wastes.

#### 7 ENVIRONMENTAL NON-CONFORMANCE

#### 7.1 SUMMARY OF MONITORING EXCEEDANCE

No exceedance of 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 received 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. Cumulative number of complaints is presented in *Annex K*.

#### 7.5 SUMMARY OF ENVIRONMENTAL SUMMONS AND SUCCESSFUL PROSECUTION

No summons was received during the reporting period.

#### 8 FUTURE KEY ISSUES

#### 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

- Trial piling works (loading test);
- Piling works at Old Bailey Wing (OBW);
- Demolition works at Block 8;
- Excavation works at the Parade ground;
- Preservation by record at the Parade ground;
- Scaffolding erection at Block 1; and
- Structural additions and alteration works at Block 1.

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*.

#### 9 CONCLUSIONS

The *Environmental Monitoring and Audit (EM&A) Report* presents the EM&A works undertaken during the period from 1 September to 30 September 2012 in accordance with EM&A Manual and the requirement under EP-408/2011/B.

No exceedance of Action or Limit Levels 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.

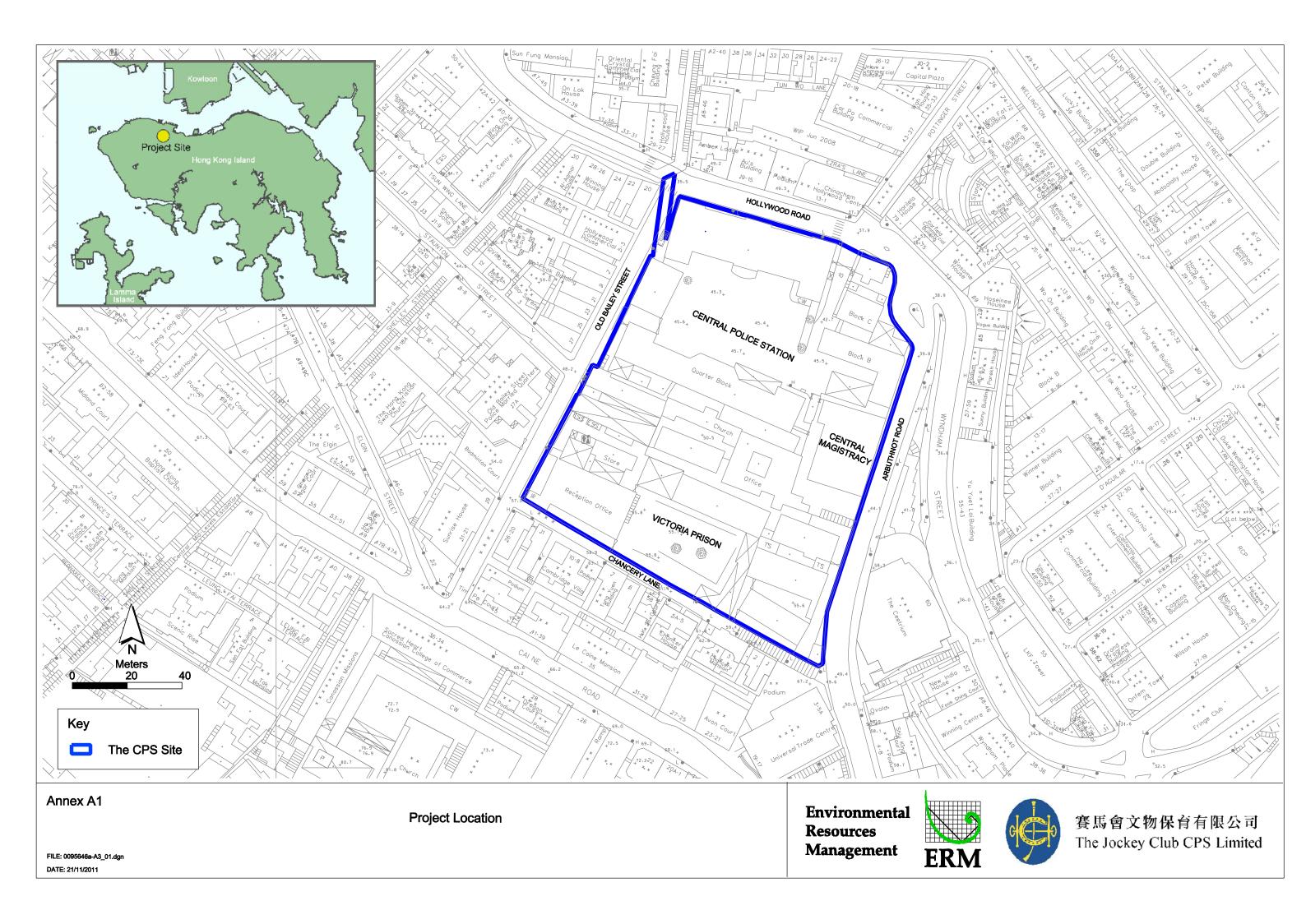
No complaint was received during the reporting period.

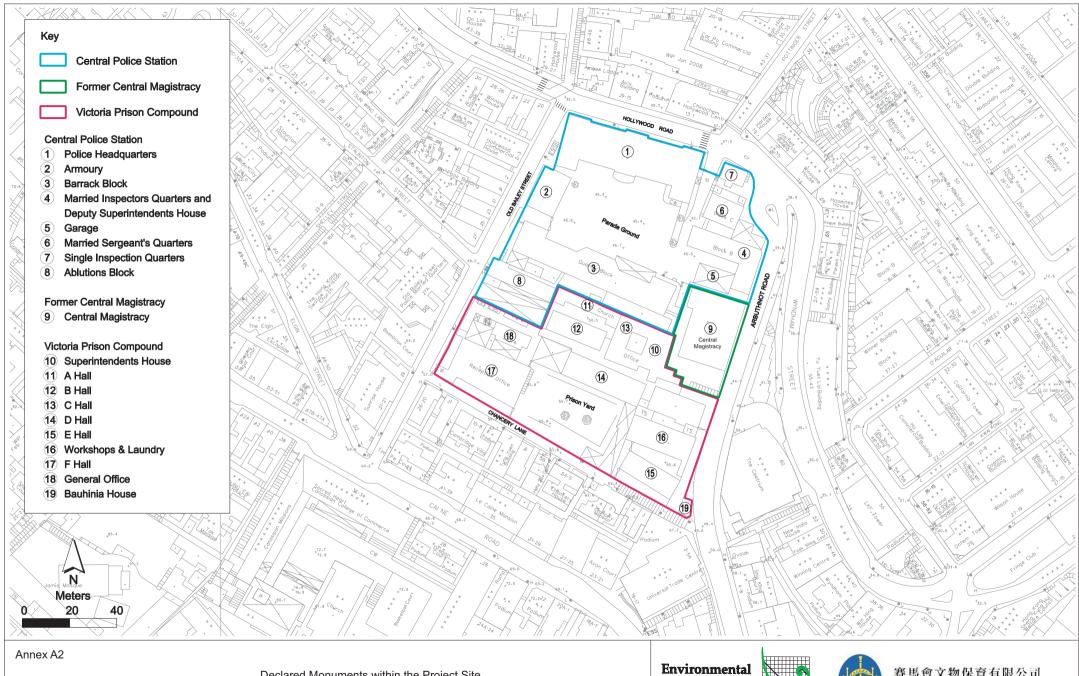
No summons/prosecution was received during the reporting period.

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





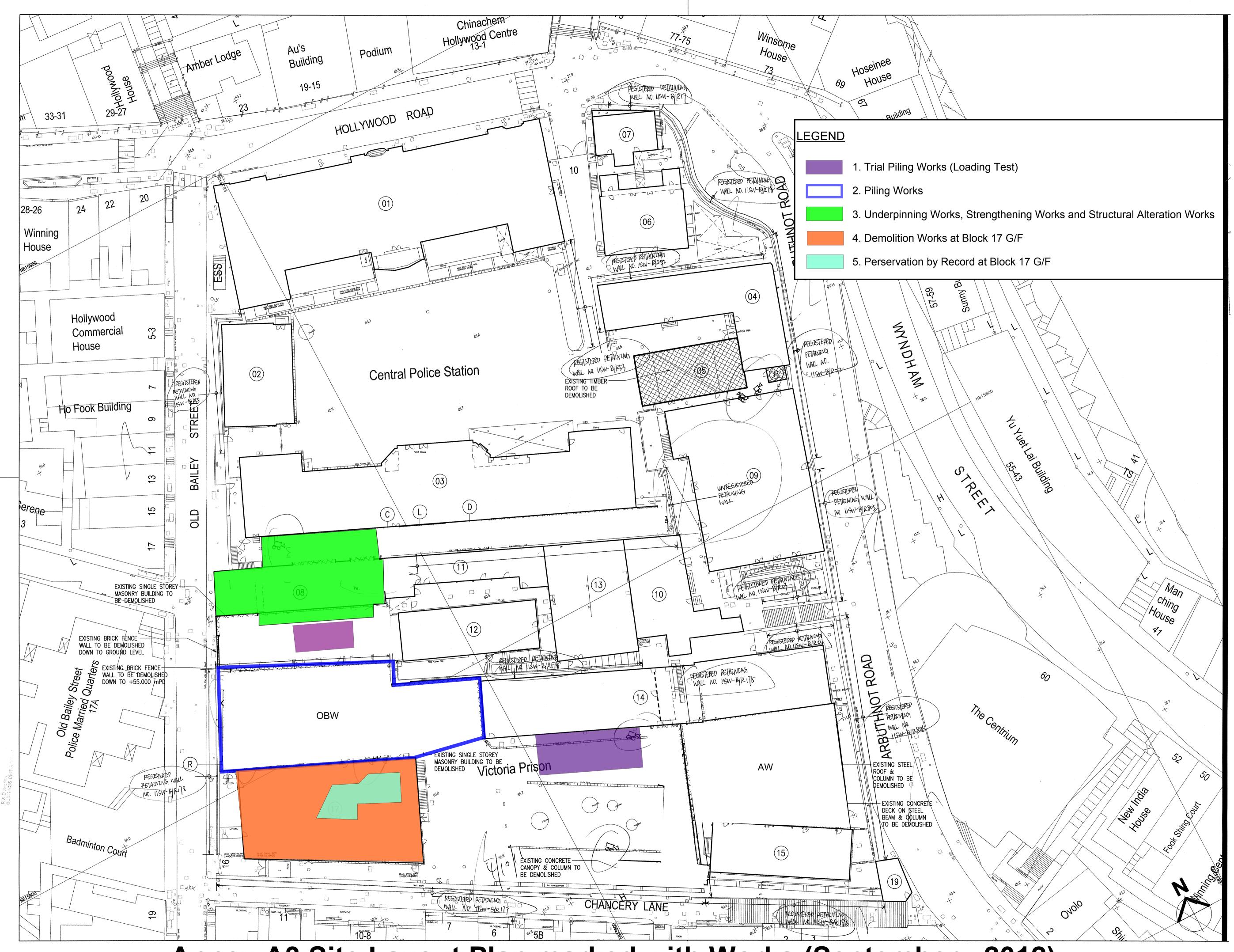
FILE: 0095646b1-A3.dgn DATE: 07/12/2011

Declared Monuments within the Project Site

Resources Management



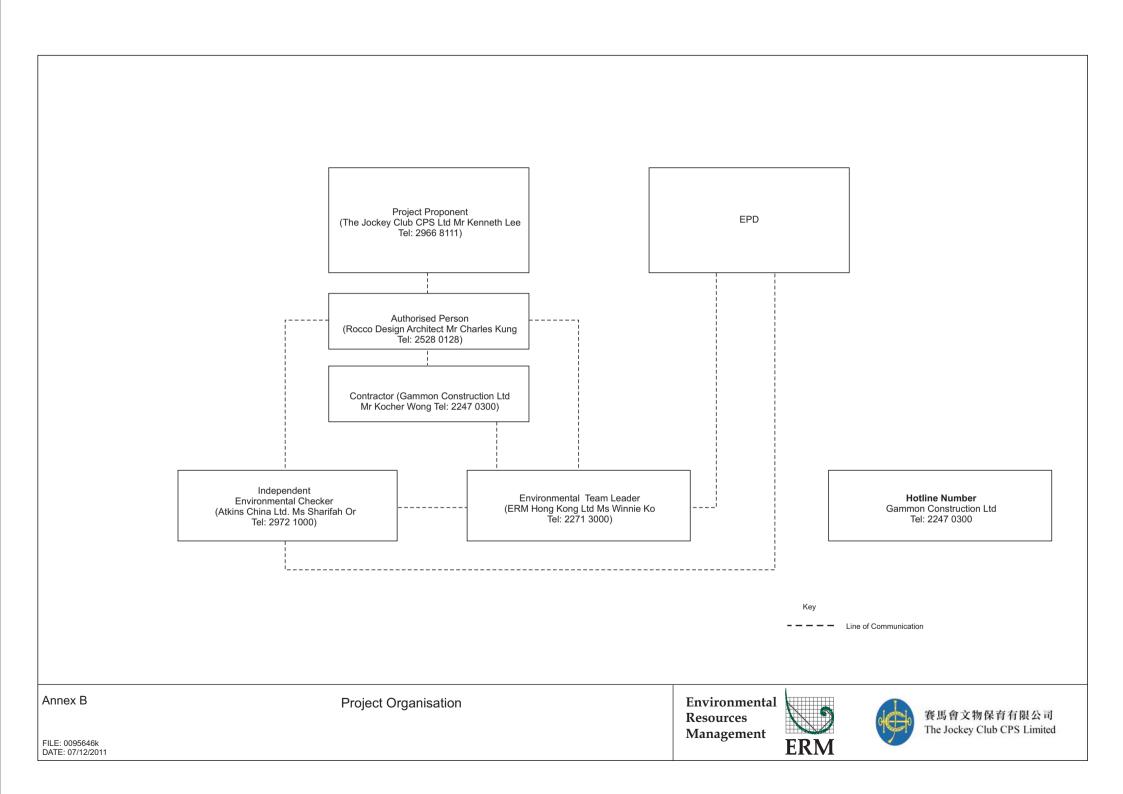




Annex A3 Site Layout Plan marked with Works (September - 2012)

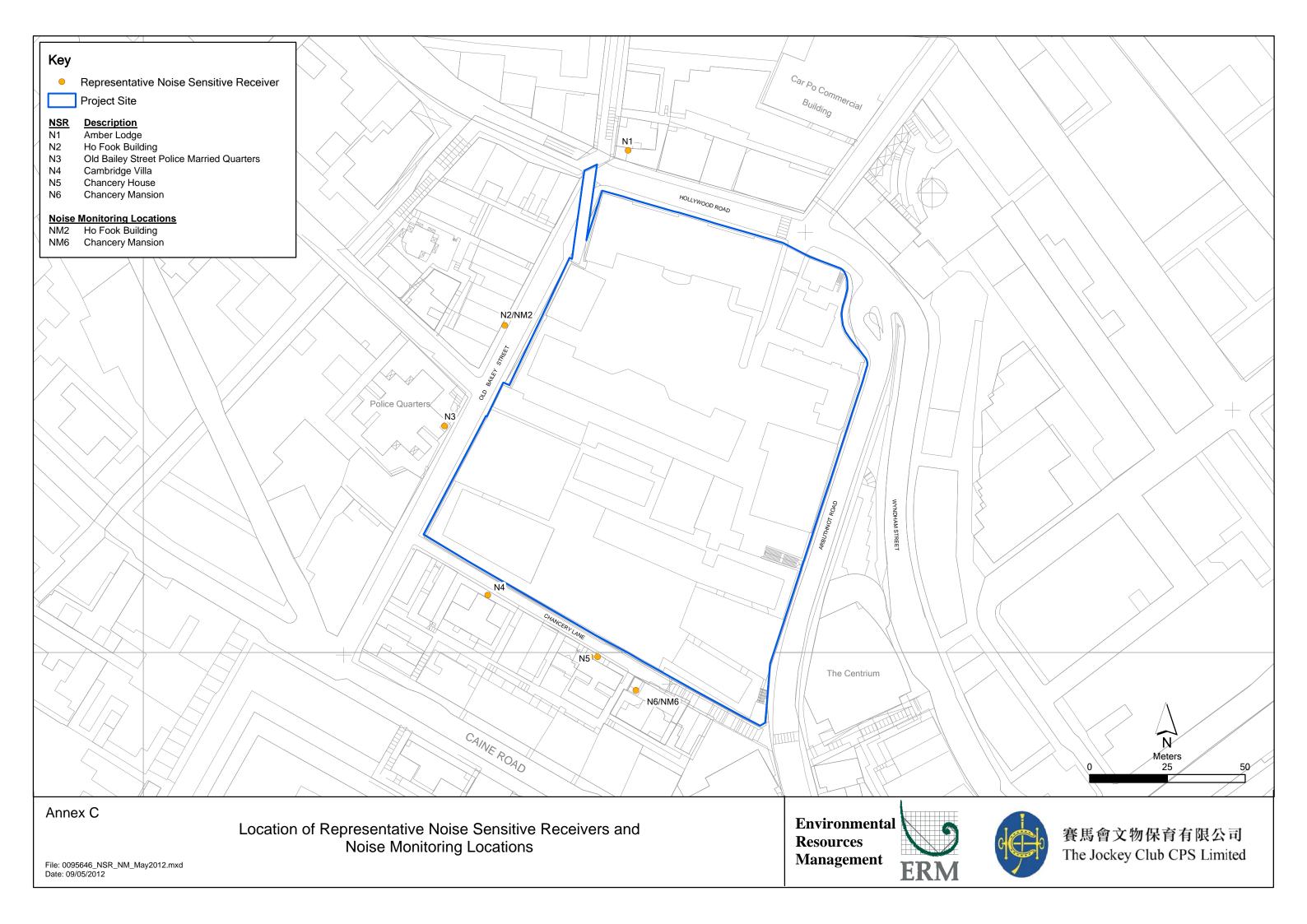
# Annex B

# Project Organization Chart and Contact Detail



# Annex C

Locations of Noise Monitoring Stations and Noise Sensitive Receivers



## 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 - September 2012

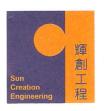
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						1-Sep
2-Sep	3-Sep	4-Sep	5-Sep	6-Sep	7-Sep	8-Sep
	Noise Monitoring at NM2 & NM6					Noise Monitoring at NM2 & NM6
9-Sep	10-Sep	11-Sep	12-Sep	13-Sep	14-Sep	15-Sep
					Noise Monitoring at NM2 & NM6	
16-Sep	17-Sep	18-Sep	19-Sep	20-Sep	21-Sep	22-Sep
				Noise Monitoring at NM2 & NM6		
23-Sep	24-Sep	25-Sep	26-Sep	27-Sep	28-Sep	29-Sep
			Noise Monitoring at NM2 & NM6			·
30-Sep						

#### Central Police Station Compound Conservation and Revitalisation (Ho Fook Building - NM2 & Chancery Mansion - NM6) Monitoring Schedule for Next Reporting Month - October 2012

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1-Oct	2-Oct		4-Oct		6-Oct
			Noise Monitoring at NM2 & NM6			
7-Oct	8-Oct	9-Oct	10-Oct	11-Oct	12-Oct	13-Oct
		Noise Monitoring at NM2 & NM6				
14-Oct	15-Oct	16-Oct	17-Oct	18-Oct	19-Oct	20-Oct
	Noise Monitoring at NM2 & NM6					Noise Monitoring at NM2 & NM6
21-Oct	22-Oct	23-Oct	24-Oct	25-Oct	26-Oct	27-Oct
					Noise Monitoring at NM2 & NM6	
28-Oct	29-Oct	30-Oct	31-Oct			

#### Annex E

Calibration Reports for Calibrators and Sound Level Meters



Sun Creation Engineering Limited

Calibration and Testing Laboratory

## Certificate of Calibration 校正證書

Certificate No.:

C124011

證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號: IC12-1674)

Description / 儀器名稱 :

Sound Level Calibrator

Manufacturer / 製造商

Rion

Model No. / 型號

NC-73

Serial No. / 編號

10997142

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 :

 $(23 \pm 2)^{\circ}$ C

Relative Humidity / 相對濕度 :

Line Voltage / 電壓 :

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期

9 July 2012

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

Tested By 測試

L K Yeung

Certified By 核證

K C Lee

Date of Issue

:

10 July 2012

簽發日期

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 - 校正及檢測實驗所 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



#### Sun Creation Engineering Limited

Calibration and Testing Laboratory

## Certificate of Calibration 校正證書

Certificate No.:

C124011

證書編號

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

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

3. Test equipment:

Equipment ID CL130 CL281 TST150A <u>Description</u>
Universal Counter
Multifunction Acoustic Calibrator
Measuring Amplifier

Certificate No. C123541 DC110233 C120886

4. Test procedure: MA100N.

5. Results:

5.1 Sound Level Accuracy

UUT	Measured Value	Mfr's Spec.	Uncertainty of Measured Value
Nominal Value	(dB)	(dB)	(dB)
94 dB, 1 kHz	94.0	± 0.5	± 0.2

5.2 Frequency Accuracy

1 Todata j 1 Todatao j			
UUT Nominal Value	Measured Value	Mfr's	Uncertainty of Measured Value
(kHz)	(kHz)	Spec.	(Hz)
1	0.990	$1 \text{ kHz} \pm 2 \%$	± 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.

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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3-20-41 Higashimotomachi Kokubunji Tokyo 185-8533 Phone:042(359)7888, Facsimile:042(359)7442

## **Certificate of Calibration**

Name : Precision sound level meter

Model : NL-52 S/No. : 00710259

(NX-42EX installed)

Microphone: UC-59 S/No.: 02695

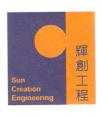
Preamplifier: NH-25 S/No.: 10253

Date of Calibration: September, 20, 2011

We hereby certify that the above product was tested and calibrated according to the prescribed Rion procedures, and that it fulfills specification requirements.

The measuring equipment and reference devices used for testing and calibrating this unit are managed under the Rion traceability system and are traceable according to official Japanese standards and official standards of countries belonging to the International Committee of Weights and Measures.





## 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.:

C124191

證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號:IC12-1770)

Description / 儀器名稱

Sound Level Meter

Manufacturer / 製造商 Model No. / 型號

Rion NL-31

Serial No. / 編號

00603867

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 :

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

18 July 2012

#### 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, USA
- Fluke Everett Service Center, USA
- Fluke Precision Measurement Ltd., UK
- Rohde & Schwarz Laboratory, Germany

Tested By 測試

L K Yeung

Certified By

核證

K/C Lee

Date of Issue

18 July 2012

簽發日期

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 laborator

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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 – 校正及檢測實驗所

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



#### Sun Creation Engineering Limited

Calibration and Testing Laboratory

## Certificate of Calibration

Certificate No.:

C124191

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 1. up for over 10 minutes before the commencement of the test.
- 2. Self-calibration was performed before the test.
- The results presented are the mean of 3 measurements at each calibration point. 3.
- 4. Test equipment:

Equipment ID CL280 CL281

Description 40 MHz Arbitrary Waveform Generator Multifunction Acoustic Calibrator

Certificate No. C120016 DC110233

- Test procedure: MA101N.
- 6. Results:
- Sound Pressure Level 6.1

6.1.1 Reference Sound Pressure Level

	UU	JT Setting		Applied	Value	UUT	IEC 61672 Class 1
Range	Mode	Frequency	Time	Level	Freq.	Reading	Spec.
(dB)		Weighting	Weighting	(dB)	(kHz)	(dB)	(dB)
30 - 120	L <sub>A</sub>	A	Fast	94.00	1	93.8	± 1.1

6.1.2 Linearity

	Ul	JT Setting		Applied	Value	UUT
Range	Mode	Frequency	Time	Level	Freq.	Reading
(dB)		Weighting	Weighting	(dB)	(kHz)	(dB)
30 - 120	$L_{A}$	A	Fast	94.00	1	93.8 (Ref.)
				104.00		103.8
				114.00		113.8

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

Time Weighting 6.2

Time Weighting										
	UU	T Setting		Applied	Value	UUT	IEC 61672 Class 1			
Range	Mode	Frequency	Time	Level	Level Freq.		Spec.			
(dB)		Weighting	Weighting	(dB)	(kHz)	(dB)	(dB)			
30 - 120	L <sub>A</sub>	A	Fast	94.00	94.00 1		Ref.			
			Slow			93.7	± 0.3			

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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Sun Creation Engineering Limited

Calibration and Testing Laboratory

## Certificate of Calibration 交正證書

Certificate No.: C124191

證書編號

Frequency Weighting

6.3.1 A-Weighting

11 Weighting											
	UU'	T Setting		Appl	ied Value	IEC 61672 Class 1					
Range	Mode	Frequency	Time	Level	Freq.	Reading	Spec.				
(dB)		Weighting	Weighting	(dB)		(dB)	(dB)				
30 - 120	L <sub>A</sub>	A	Fast	94.00	63 Hz	67.6	$-26.2 \pm 1.5$				
					125 Hz	77.6	$-16.1 \pm 1.5$				
					250 Hz	85.1	$-8.6 \pm 1.4$				
					500 Hz	90.6	$-3.2 \pm 1.4$				
					1 kHz	93.8	Ref.				
					2 kHz	95.1	$+1.2 \pm 1.6$				
					4 kHz	95.0	$+1.0 \pm 1.6$				
					8 kHz	92.8	-1.1 (+2.1; -3.1)				
					12.5 kHz	89.9	-4.3 (+3.0; -6.0)				

6.3.2 C-Weighting

C Weighting											
	UU'	T Setting		Appl	ied Value UUT IEC 61672 Cla						
Range (dB)	Mode	Frequency Weighting	Time Weighting	Level (dB)	Freq.	Reading (dB)	Spec. (dB)				
30 - 120	L <sub>C</sub>	C	Fast	94.00	63 Hz	93.0	$-0.8 \pm 1.5$				
					125 Hz	93.6	$-0.2 \pm 1.5$				
					250 Hz	93.8	$0.0 \pm 1.4$				
					500 Hz	93.9	$0.0 \pm 1.4$				
					1 kHz	93.9	Ref.				
					2 kHz	93.7	$-0.2 \pm 1.6$				
					4 kHz	93.2	$-0.8 \pm 1.6$				
					8 kHz	90.9	-3.0 (+2.1; -3.1)				
					12.5 kHz	88.1	-6.2 (+3.0; -6.0)				

Remarks: - Mfr's Spec.: IEC 61672 Class 1

- Uncertainties of Applied Value: 94 dB : 63 Hz - 125 Hz :  $\pm$  0.35 dB

250 Hz - 500 Hz :  $\pm$  0.30 dB :  $\pm 0.20 \text{ dB}$ 1 kHz 2 kHz - 4 kHz  $\pm 0.35 \text{ dB}$ 8 kHz  $\pm 0.45 \text{ dB}$ 

12.5 kHz  $\pm 0.70 \text{ dB}$ 

104 dB : 1 kHz  $\pm 0.10 \text{ dB (Ref. 94 dB)}$ 114 dB : 1 kHz  $\pm 0.10 \text{ dB (Ref. 94 dB)}$ 

- 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.

輝創工程有限公司 - 校正及檢測實驗所

c/o 香港新界屯門興安里一號青山灣機樓四樓

Tel/電話: 2927 2606 Fax/傳真: 2744 8986 E-mail/電郵: callab@suncreation.com

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#### Annex F

Event / Action Plans for Noise

## Annex F Event and Action Plan for Noise

Event	Action								
	Environmental Team (ET)		dependent Environmental tecker (IEC)	A	uthorised Person (AP)	C	ontractor		
Action Level	<ol> <li>Notify IEC and Contractor;</li> <li>Carry out investigation;</li> <li>Report the results of investigation to the IEC, AP and Contractor;</li> <li>Discuss with the Contractor and formulate remedial measures;</li> <li>Increase monitoring frequency to check mitigation effectiveness.</li> </ol>	3.	Review the analysed results submitted by the ET; Review the proposed remedial measures by the Contractor and advise the AP accordingly; Supervise the implementation of remedial measures.	<ol> <li>2.</li> <li>3.</li> <li>4.</li> </ol>	Confirm receipt of notification of failure in writing; Notify Contractor; Require Contractor to proposed remedial measures for the analysed noise problem; Ensure remedial measures are properly implemented.	1.	Submit noise mitigation proposals to IEC; Implement noise mitigation proposals.		
Limit Level	<ol> <li>Identify source;</li> <li>Inform IEC and AP;</li> <li>Repeat measurements to confirm findings;</li> <li>Increase monitoring frequency;</li> <li>Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented;</li> <li>Inform IEC, AP and EPD the causes and actions taken for the exceedances;</li> <li>Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and AP informed of the results;</li> <li>If exceedance stops, cease additional monitoring.</li> </ol>	2.	Discuss amongst AP, ET, and Contractor on the potential remedial actions; Review Contractors remedial actions whenever necessary to assure their effectiveness and advise the AP accordingly; Supervise the implementation of remedial measures.	<ol> <li>1.</li> <li>2.</li> <li>3.</li> <li>4.</li> <li>5.</li> </ol>	Confirm receipt of notification of failure in writing; Notify Contractor; Require Contractor to propose remedial measures for the analysed noise problem; Ensure remedial measures properly implemented; 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> <li>1.</li> <li>2.</li> <li>3.</li> <li>4.</li> <li>5.</li> </ol>	Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC within 3 working days of notification; Implement the agreed proposals; Resubmit proposals if problem still not under control; 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
Cultura	al Heritag	ge			
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.	To be advised	During detailed design and construction	√
S3.9.2	S3.3.1	Vibration Monitoring A baseline condition survey and baseline vibration impact will be conducted by a specialist for the approval of AMO and Buildings Department prior to commencement of the construction works to define the vibration control limits and recommend a vibration monitoring proposal for the concerned historic buildings and structures in and outside CPS for AMO's prior approval before commencement of the construction works.	Historic buildings and structures in CPS, the granite walls at Old Bailey Street and the proposed Grade 3 historic building (No. 20 Hollywood Road)	During detailed design and construction	√ √
53.9.2	S3.3.3	Compliance of the Approved Measures and Auditing Staff training by an experience building conservation expert or relevant competent person(s) in the environmental team of the project should be provided to the on-site staffs, contractors, sub-contractors and workers of the project before commencement—of works to ensure their full understanding of the approved protection schedule, restoration proposal and work methodologies—related to cultural heritage, and their respective responsibilities in the implementation of the environmental protection measures.  Regular site audit for cultural heritage should be carried out in the construction phase by an experience building conservation expert in the environmental team ("the Heritage Checker") to investigate the site practice of the contractors and workers and their compliance of the approved work methodologies with respect of conservation works, mitigations for cultural heritage and any related works. A detailed proposal of the regular audit such as methodology (e.g. performance	Whole site	Prior to and during construction	

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

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
S3.7.1 & 3.7.2	-	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.  Implementation and update of the Conservation Management Plan (CMP). Any new findings related to the conservation of the built heritage in the site identified during the detailed design and construction stage shall be properly recorded in details for the notification to the AMO and update in the CMP. After the construction, a cartographic and photographic recording on the restored historic buildings, historic features and the site shall be conducted and the following records shall be included into the CMP as appendices for updating and record purpose:  • one set of measured drawings and photographic records showing the as-built condition of historic buildings and structures; and  • an updated inventory list of the historic features together with the cross referenced location plans and photo records.  One set of	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
Landsca	ape & Visi	ıal	•	-	
S4.7.27	-	<u>In-situ Tree Protection - Cordon Zone (CZ)</u>	Whole site	During construction	√
		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			
S4.7.2	-	wastewater from intruding the soil inside the CZ. <u>In-situ Tree Protection - Advanced &amp; Phased Root Pruning</u>	Whole site	During construction	√
		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.		Construction	
S4.7.2	-	In-situ Tree Protection - Foliage cleansing system  A sprinkler cleansing system will be installed either in the crown of the	Whole site	During construction	V
		tree or at a suitable location on an adjacent building to provide the			

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

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
		regular basis. The air conditioner unit currently located near the proposed planting site should also be removed. This new tree planting site should also be provided with proper irrigation.  Pursuant to the "Environment, Transport and Works Bureau Technical Circular (Works) No. 3/2006 Tree Preservation", the compensation ratio should preferably be 1:1 according to trunk girth. T10 has a DBH of 20 cm ( <i>Table 4.3</i> ), 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  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::  - Bauhinia 'Blakeana' a native evergreen species with deep mauve flowers and an exceptionally long flowering period from late autumn to early spring.  - Bauhinia purpure, a native evergreen with lighter purple flowers from late autumn to early winter.			
		<ul> <li>Bauhinia variegata, an exotic deciduous species, with pale pinkish flowers in spring to early summer often when the tree has little or no leaves.</li> </ul>			
S4.7.2	S4	Within the limitations of the conservation of the CPS character, greening of vertical structures should be provided where possible.  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	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 exiting 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	-	New Custom Paving  New, Porous, 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	In-situ Tree Protection - Quarterly inspection  Quarterly Inspection of affected and newly planted trees by an experienced and appropriately trained arborist or horticulturist using Form 1 - Tree Group Inspection Form and Form 2 - Tree Risk Assessment Form developed by Development Bureau (http://www.trees.gov.hk/en/doc/TRAGuideline_July2010version_combine.pdf) or a form designed by a tree expert and approved by Tree Management Office for a period of 12 months after construction.	Whole site	During post construction and operation	N/A - The quarterly inspection will be conducted at later stage.
Noise					
S5.9	-	<ul> <li>The following site practices should be followed during the construction of the Project:</li> <li>Only well-maintained plant will be operated on-site and plant will be serviced regularly during the construction phase;</li> <li>Silencers or mufflers on construction equipment will be utilised and will be properly maintained during the construction phase;</li> <li>Mobile plant, if any, will be sited as far away from NSRs as possible;</li> </ul>	Whole Site	During construction	N/A - Not observed.

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
S5.9		<ul> <li>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;</li> <li>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</li> <li>Material stockpiles and other structures will be effectively utilised, wherever practicable, in screening noise from on-site construction activities.</li> <li>Noise insulating sheet would be adopted for certain PME (eg drill rig,</li> </ul>			
	-	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	√ ·
S6.8.1		Dust control measures stipulated in the <i>Air Pollution Control</i> ( <i>Construction Dust</i> ) <i>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	<b>√</b>
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	N/A - Not observed.
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	N/A - Not observed.			
S6.8.1	-	The engine of the construction equipment or trucks during idling will be switched off.	Whole Site	During construction	$\sqrt{}$			
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				
Water Q	2uality			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</i> of <i>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.			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	V
S7.6	-	All fuel tanks and chemical storage areas will be provided with locks and be sited on paved areas.	Whole Site	During construction	V
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	V
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	√
Waste 1	Manageme	nt			
S8.5	\$6.3.1 & Table 6.1	General  The Contractor shall apply for and obtain all the necessary waste disposal permits or licences are obtained prior to the commencement of the construction works.	Whole Site	During construction	√
S8.5	-	Management of Waste Disposal  The construction contractor will open a billing account with the EPD.  Every construction waste or public fill load to be transferred to the Government waste disposal facilities such as public fill reception facilities, sorting facilities, landfills will require a valid "chit" which contains the information of the account holder to facilitate waste transaction recording and billing to the waste producer.	Whole Site	During construction	√
S8.5	S6.2	A trip-ticket system will also be established to monitor the disposal of construction waste at landfill and to control fly-tipping. The trip-ticket 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	Reduction of Construction Waste Generation  C&D material will be segregated on-site into public fill and construction waste and stored in different containers or skips to facilitate reuse of the public fill and proper disposal of the construction waste. Specific areas of the work site will be designated for such segregation and storage if immediate use is not practicable.	Whole Site	During construction	√
S8.5	S6	<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	<ul> <li>Containers used for storage of chemical waste shall:</li> <li>Be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition, and securely closed;</li> <li>Have a capacity of less than 450 L unless the specifications have been approved by the EPD; and</li> <li>Display a label in English and Chinese in accordance with instructions prescribed in <i>Schedule 2</i> of the <i>Regulations</i>.</li> </ul>	Whole Site	During construction and operation	√
S8.5	S6	<ul> <li>Storage areas for chemical waste shall:</li> <li>Be clearly labelled and used solely for the storage of chemical waste;</li> <li>Be enclosed on at least 3 sides;</li> <li>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;</li> <li>Have adequate ventilation;</li> <li>Be covered to prevent rainfall entering (water collected within the bund must be tested and disposed of as chemical waste, if necessary); and</li> <li>Be arranged so that incompatible materials are appropriately separated.</li> </ul>	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	N/A - Not observed.
S8.5	S6 & Table 6.1	General Refuse  General refuse will be stored in enclosed bins separately from construction and chemical wastes. The general refuse will be delivered to the transfer station, separately from construction and chemical wastes, on a daily basis to reduce odour, pest and litter impacts.	Whole site	During construction	√
S8.5	S6	Recycling bins will be provided at strategic locations to facilitate recovery of aluminium can and waste paper from the Site. Materials recovered will be sold for recycling.	Whole site	During construction and operation	√
S8.5	S6	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	Commence-ment 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

#### **Annex H Noise Monitoring Results**

#### **Daytime Noise Monitoring Results**

NM6 Chancery Mansion

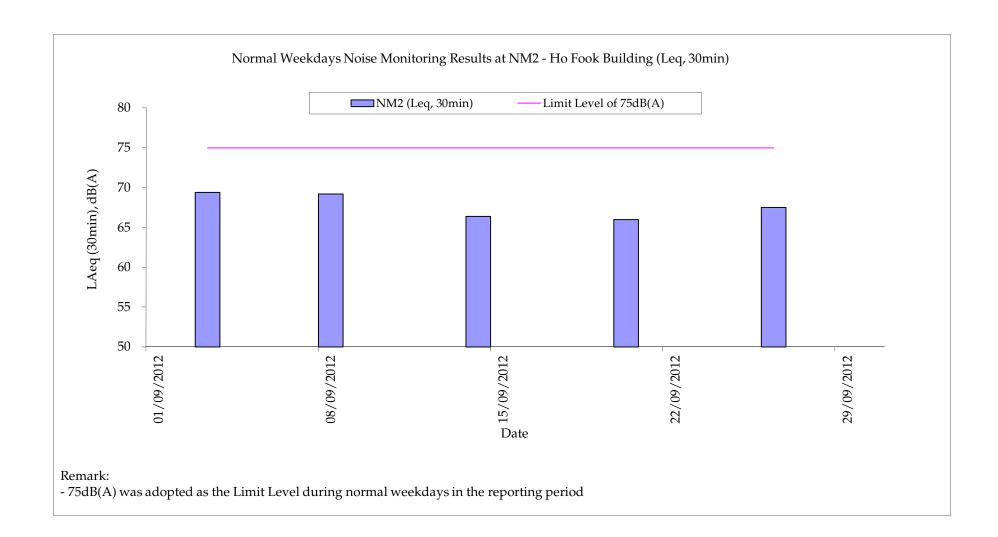
Date	Start Time	End Time	Weather	Noise	level (dB(A)	), 30 min	Major Construction Noise Source(s)	Other Noise Source(s)	Remarks	Wind Speed (m/s)	Noise Meter Model / ID	Calibrator Model / ID
				Leq	L10	L90	Observed	Observed		(,		
03-Sep-12	14:54	15:24	Fine	67.4	69.2	65.5	Lifting, excavation (within the project site)	Traffic Noise	-	0.3	RION - NL52 (S/N 00710259)	RION - NC73 (S/N 10997142)
08-Sep-12	14:54	15:24	Fine	68.7	71.5	65.3	Lifting, excavation (within the project site)	Traffic Noise	-	0.3	RION - NL52 (S/N 00710259)	RION - NC73 (S/N 10997142)
14-Sep-12	15:00	15:30	Sunny	67.6	69.5	64.9	Lifting (within the project site)	Traffic Noise	-	0.3	RION - NL52 (S/N 00710259)	RION - NC73 (S/N 10997142)
20-Sep-12	11:00	11:30	Fine	65.0	66.6	63.9	Lifting, excavation (within the project site)	Traffic Noise	-	0.3	RION- NL31 (S/N 00603867)	RION - NC73 (S/N 10997142)
26-Sep-12	11:21	11:51	Cloudy	66.7	68.3	63.9	Lifting, excavation (within the project site)	Traffic Noise	-	0.5	RION- NL31 (S/N 00603867)	RION - NC73 (S/N 10997142)
			Min.	65.0								
			Max.	68.7								

NM2 Ho Fook Building

Date	Start Time	End Time	Weather	Noise level (dB(A)), 30 min		Major Construction	Other Noise		Wind Speed	Noise Meter	Calibrator	
				Leq	L10	L90	Noise Source(s) Observed	Source(s) Observed	Remarks	(m/s)	Model / ID	Model / ID
03-Sep-12	14:16	14:46	Fine	69.4	71.1	67.5	Lifting, excavation (within the project site)	Traffic noise	-	0.3	RION- NL52 (S/N 00710259)	RION - NC73 (S/N 10997142)
08-Sep-12	14:16	14:46	Fine	69.2	70.7	66.1	Lifting, excavation (within the project site)	Traffic Noise	-	0.3	RION- NL52 (S/N 00710259)	RION - NC73 (S/N 10997142)
14-Sep-12	13:00	13:30	Sunny	66.4	68.7	63.8	Lifting (within the project site)	Traffic Noise	-	0.2	RION- NL52 (S/N 00710259)	RION - NC73 (S/N 10997142)
20-Sep-12	9:00	9:30	Fine	66.0	68.0	63.5	Lifting, excavation (within the project site)	Traffic Noise	-	0.3	RION- NL31 (S/N 00603867)	RION - NC73 (S/N 10997142)
26-Sep-12	9:27	9:57	Cloudy	67.5	69.5	64.1	Lifting, excavation (within the project site)	Traffic Noise	-	0.5	RION- NL31 (S/N 00603867)	RION - NC73 (S/N 10997142)
			Min	66.0								

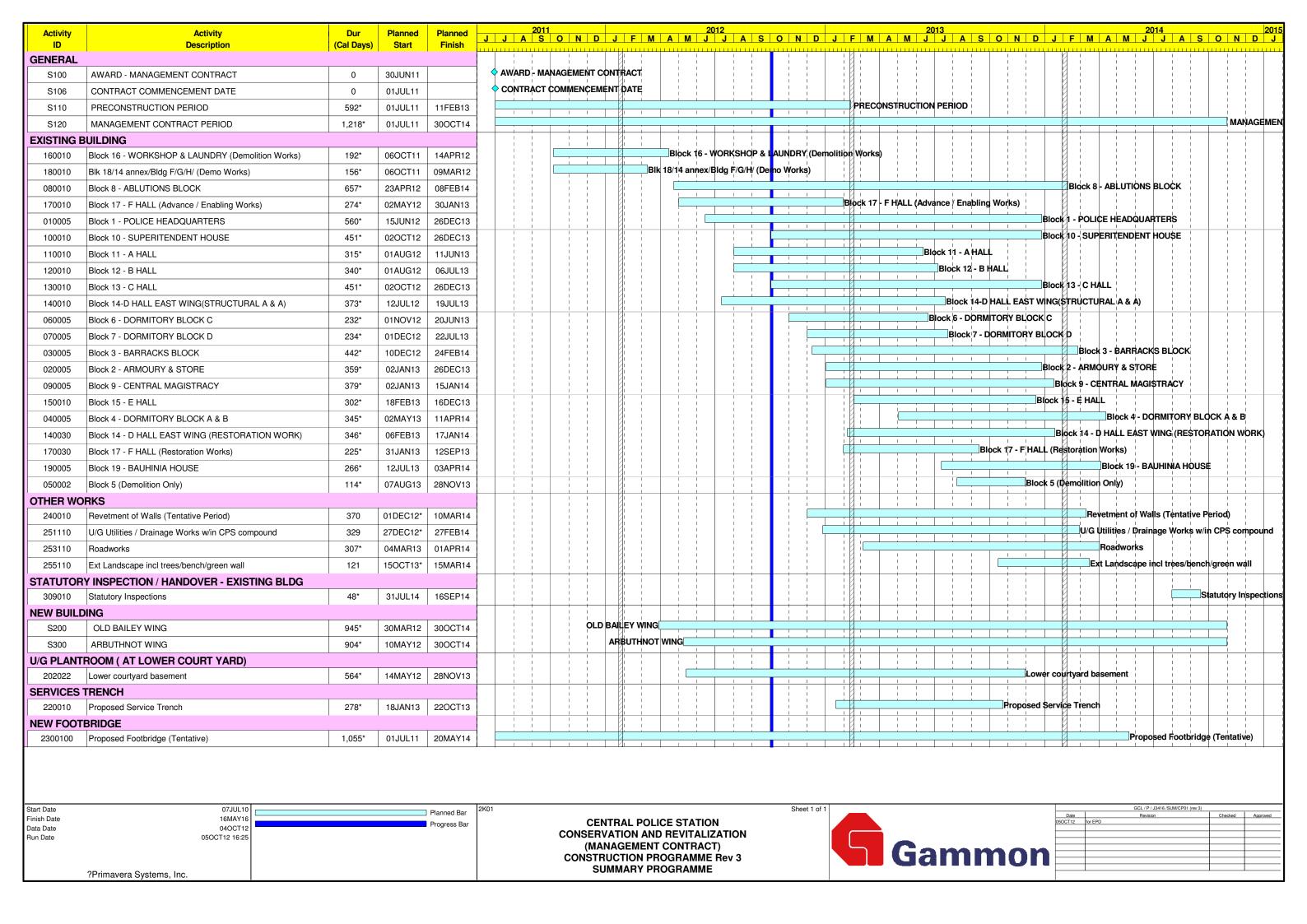
Min. 66.0





#### Annex I

## Construction Programme for the Project



Annex J

Tree Inspection Reports





Tel. 2516 8823

Fax.2516 6260

# **₩**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

通信地址 (Mail Address): 上水郵局信箱 八八九 號 (Sheung Shui Post Office Box 889)

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

26<sup>th</sup> September 2012

Our Ref.: YW/TP/GAMMON/2012/9/1

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

Attn: Mr. Cliff C.H. LEUNG

Dear Sir,

## Summary of Monthly Inspection Report for the Six Existing Trees at Central Police Station Compound for September 2012 (Contract Ref.: J3416/400.4/D00025)

Tree	Botanical	Date of	Overall Health Condition	
No.	Name	Inspection	Good/Fair/Poor	Remarks
Tree-5	Mangifera indica 芒果	6 <sup>th</sup> Sept. 2012	Good	N.F.A.
Tree-6	Aleurites moluccana 石栗	6 <sup>th</sup> Sept. 2012	Fair	To take remedial work for the cracks.
Tree-7	Aleurites moluccana 石栗	6 <sup>th</sup> Sept. 2012	Fair	<ol> <li>To take remedial work for the cracks.</li> <li>To repair the broken water pipe.</li> </ol>
Tree-8	Plumeria rubra 紅雞蛋花	6 <sup>th</sup> Sept. 2012	Fair	N.F.A.
Tree-9	Araucaria cunninghamia 花旗杉	6 <sup>th</sup> Sept. 2012	Fair	N.F.A.
Tree-11	Dracaena marginata 馬尾鐵	6 <sup>th</sup> Sept. 2012	Fair	To clear all the weeds away from the planter.



#### **FORM 1: TREE GROUP INSPECTION FORM** 表格 1: 樹群檢查表格

#### General Information 基本資料

General information &	个具件							
File Ref. 檔案編號: Y	ammon Construction W/TP/GAMMON/201	2/9/2	Name of Tree Inspect Name of Endorseme		巡查人員姓名: 夏核人員姓名:	LAU Man Chung WONG Pak Hay		
Date of Inspection 巡查日		otember 6, 2012						
Project/Contract No.合約/	The state of the s	416/400.4/D00025						
Location Information &	置資料 Police Station Compo		Faces in one day the	90% 425540H W	BOTTA - E-TRAC DELLYMAN THE DELLYMAN			
	ound.	Nearby Utility Post No. 就近公用設施編號:						
Location Types 地點類別: Address:	Roadside	177 PON A		□ Community Hall / Centre 社區會堂 / 中心				
(multiple answers allowed)		pace 空地		Roadside Planter 路旁花圃				
可選多於一項		on Centre 展覽中心		Rain shelter / pavilion 避雨亭 / 涼亭				
12891K 34	727 - 477	int 觀景台		Sitting or	ut area 休憩處			
	Vegasia de la companya della companya della companya de la companya de la companya della company	/ nature trail 行山徑	Contract Con					
	Others (p	olease specify)其他 (A	<b>声說明</b> ):			_		
<b>General Tree Information</b>	n 基本樹木資料			* Delete	as appropriate	請把不合適的刪除		
Main tree species in the group		Range of tree	Overall health	Overall		rks (Any special tree		
or minority tree species of	of trees in the	height (m)	condition	structural		e.g. dying/dead,		
significant size 在群組內的主要樹種或樹幹	relevant species or	該樹種高度範圍	- CONTRACT THE PROPERTY OF THE	condition		e problem and structural		
胸徑或高度或樹冠範圍較大	as a % of tree group		(good, fair,	整體結構狀》 (good, fair,	元 defects; and 其他評語	d soil condition		
的樹種	該樹種在群組內		好,良,差)	poor 好,良		例如:凋謝/枯樹/病蟲害		
(Note 2)	的百份比/數目*			差)		題;及泥土狀况)		
Mangifera indica 芒果	17%, 1 No.	16M	GOOD	GOOD	N.F.A.			
2/20 An C2	1770, 1110.	TOW	доор	GOOD		remedial work for the		
Aleurites moluccana 石栗	32% 2 Nos.	10-13M	FAIR	FAIR	cracks and to repair the bro water pipe			
Plumeria rubra 紅雞蛋花	17% 1 No.	7M	FAIR	FAIR	N.F.A.	N.F.A.		
Araucaria cunninghamia 花旗杉 Dracaena	17% 1 No.	13M	FAIR	FAIR	N.F.A.			
marginata 馬尾鐵	17% 1 No.	8M	FAIR	FAIR	the planter	ll the weeds away from		
risca					the planter			
TARCET (annula manager)		1.6.1		+++W&FF1=	亚胆维纳 1 一种吐	<b>≠</b> 1		
TARGET (people or propert) Does target exist? 目標是否			e) 日保 (凶倒不倒物.	<b>以仅保鲜</b> 7经川/3	文彩管的人实例	至)		
The state of the s		□ No 否						
Can target be moved?能否和								
Can the use of site be restri			es 是 No 否					
Frequency of use of locatio Occasional use 偶爾使月			Frequent use 經常使	i用 □ Con	ıstant use 恆常傳	押		
Identification of Trees fo	We	E N. DOMESTA DISCONTINUES IN THE CONTROL OF THE CON				2/13		
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 fol				Number of	trees Remedial	action or detailed tree risk assessment		
樹木屬於以下任何一項或多於				樹木數量	1	或進行詳細樹木風險評估		
(1) Trees on comp 投訴個案中,約	blems	NII	5					
Pro-International III And	LE TOTAL DE CAR CARACTE CONTROL AND CONTROL OF THE CARACTER CONTROL OF THE CAR	AAST 16-34-52-51 198-74	ood structure and has	ving 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)								
(3) Tree with major defects or health problems 有明顯缺陷或健康問題的樹木 (Note 1)								
(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)								
The second secon		Note 1)						
Attached Information 附夾資 Site plan 場地平面圖		ord 相片紀錄	Others 其他 (p.	lease specify 清	說明): Montl	nly Inspection Reports		
Signature of Tree Inspection O	fficer:	1	1 des	٠,		TAMEDITAL		
Signature of Endorsement Office	cer:	×	1110		-	放棄(香港)		
Name of Contractor Yan Wing (HK) Environment Management Ltd.						有限公司等		
Date:	26-9-2			W. 500				
page and the common of the common page and the common common and the common com			of tree or branch failure, detailed 该樹進行詳細的樹木風險評估		t (using Form 2) should	be carried out.		

Note 2: Please read in conjunction with TMO's Guidelines on Tree Risk Assessment and Management Arrangement (Para. 4.3. refers.)

備註 2: 請參閱樹木管理辨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	
		Good/Fair/Poor		
Date of Inspection	6 <sup>th</sup> September 2012	Last Inspection Date	20 <sup>th</sup> August 2012	

#### III. COMMENTS:

- 1. Overall health condition of the tree is good.
- 2. Cleanliness of the planter is acceptable at the time of inspection.
- 3. Skilled workers are carrying out trimming services for the tree.
- 4. The site appears clean and tidy after the trimming work.

#### IV. RECOMMENDATIONS:

1. No further action is required.

#### V. PHOTO RECORD:





Fig 2. Cleanliness of the planter is acceptable.



Fig. 3 The site is clean and tidy at the time of inspection.

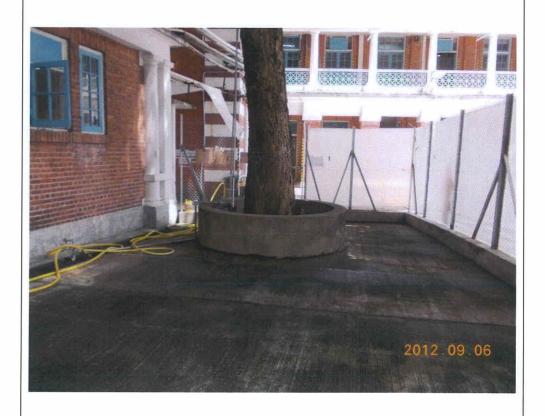




Fig. 4 Skilled worker trims the lower branches/leaves of the tree.



Fig. 5 Skilled worker prunes the lower branches / leaves of Tree-5.





Fig. 6 Lots of lower branches / leaves have been trimmed by skilled workers.



Fig. 7 Skilled workers tidy up the site after trimming work.





Fig. 8 Overall view of Tree-5 during inspection on 6<sup>th</sup> September 2012.



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.

26<sup>th</sup> September 2012.



(Contract Ref.: J3416/400.4/D00025)

I. TREEE NUMBER: Tree-6 Aleurites moluccana 石栗

#### II. BASIC INFORMATION:

Height (m)	10m	Crown spread (m)	10m
DBH (mm)	510mm	Overall Health Condition	Fair
		Good/Fair/Poor	
Date of Inspection	6 <sup>th</sup> September 2012	Last Inspection Date	20 <sup>th</sup> August 2012

#### III. COMMENTS:

- 1. Overall health condition of the tree is fair.
- 2. Cleanliness of the site and the planter are acceptable.
- 3. Lots of bulky items are placed outside the cordon zone.
- 4. Cracks at the planter and the nearby ground surface are getting worse.
- 5. The access outside the cordon zone appears clean and tidy.

#### IV. RECOMMENDATIONS:

1. To take remedial work for the cracks.

Tree - 6
Aleurites moluccana 石栗

Maintained by:
欣榮(香港)環境管理有限公司
Tel. 9776 1987



Fig 2. Cleanliness of the planter is acceptable.



Fig. 3 Cracks are getting worse, remedial work for these cracks are recommended.





Fig. 4 Front view of Tree-6 during inspection on 6<sup>th</sup> September 2012.



Fig. 5 Cleanliness of the site is acceptable.





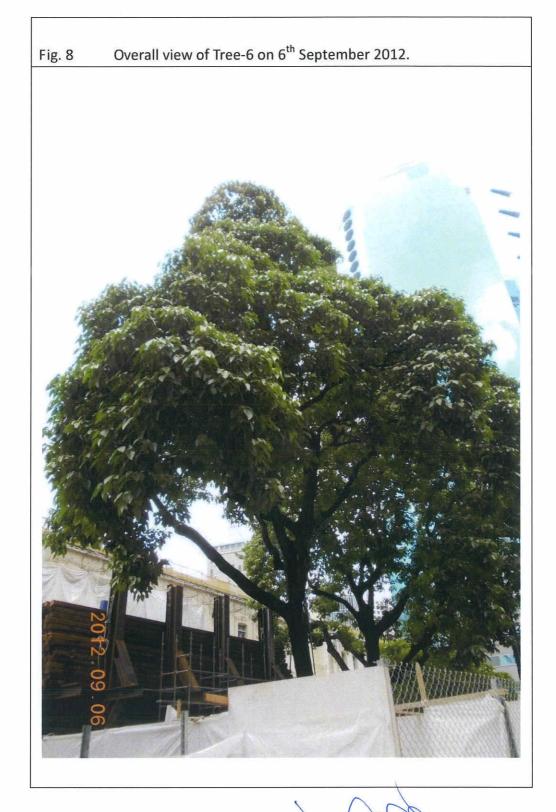
Fig. 6 Lots of bulky item are placed outside the cordon zone.



Fig. 7 The access near the cordon zone appears clean and tidy.







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.



(Contract Ref.: J3416/400.4/D00025)

I. TREEE NUMBER: Tree-7 Aleurites moluccana 石栗

#### II. BASIC INFORMATION:

Height (m)	13m	Crown spread (m)	12m
DBH (mm)	650mm	Overall Health Condition	Fair
		Good/Fair/Poor	
Date of Inspection	6 <sup>th</sup> September 2012	Last Inspection Date	20 <sup>th</sup> August 2012

#### III. COMMENTS:

- 1. Overall health condition of the tree is fair.
- 2. The site and the planter are clean and tidy.
- 3. Cracks are getting worse at the planter as well as the nearby ground surface.
- 4. The water pipe on tree-top has been broken.
- 5. Many bulky items are placed near the tree outside the cordon zone.

#### IV. RECOMMENDATIONS:

- 1. To take remedial work for the cracks.
- 2. To repair the broken water pipe.

Fig 1. Tree number

Tree -7

Aleurites moluccana

Maintained by

Tel. 9776 1987

2012.09.06



Fig 2. The planter is clean and tidy at the time of inspection.



Fig. 3 The site appears clean and tidy at the time of inspection.

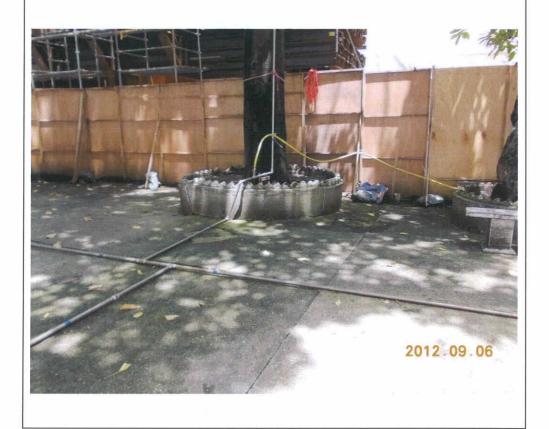




Fig. 4 Cracks are getting worse during inspection on 6<sup>th</sup> September 2012.



Fig. 5 The water pipe on tree top has been broken.





Fig. 6 Many bulky items are placed near Tree-7.



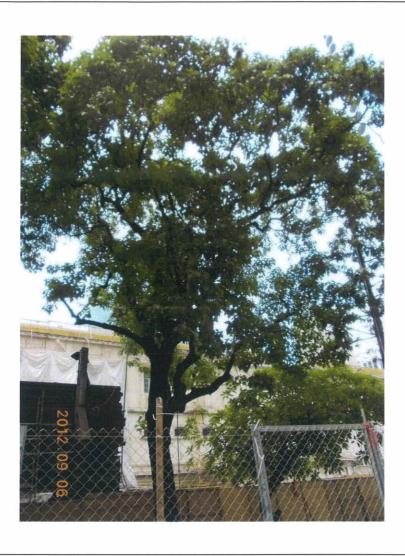
Fig. 7 Many bulky items are placed near Tree-7.





Fig. 8

Overall view of Tree-7 during inspection on 6<sup>th</sup> September 2012.



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.



( Contract Ref. : J3416/400.4/D00025 )

I. TREEE 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	Fair
		Good/Fair/Poor	
Date of Inspection	6 <sup>th</sup> September 2012	Last Inspection Date	20 <sup>th</sup> August 2012

#### III. COMMENTS:

- 1. Overall health condition of the tree is fair.
- 2. The planter is clean and tidy.
- 3. Cleanliness of the site is acceptable.
- 4. The site outside the cordon zone is clean and tidy.

#### IV. RECOMMENDATIONS:

1. No further action is required.





Fig 2. The planter is clean and tidy.



Fig. 3 Cleanliness of the site is acceptable.





Fig. 4 Overall view of Tree-8 during inspection 6<sup>th</sup> September 2012..



Fig. 5 The site outside the cordon zone is clean and tidy.



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.



(Contract Ref.: J3416/400.4/D00025)

I. TREEE 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	6 <sup>th</sup> September 2012	Last Inspection Date	20 <sup>th</sup> August 2012

#### III. COMMENTS:

- 1. Overall health condition of the tree is fair.
- 2. The planter is clean and tidy at the time of inspection.
- 3. The site inside the cordon zone is clean and tidy.
- 4. The site outside the cordon zone is clean and tidy.

#### IV. RECOMMENDATIONS:

1. No further action is required.





Fig 2. The planter is clean and tidy at the time of inspection.



Fig. 3 The site inside the cordon zone is clean and tidy.





Fig. 4 A pipe leads water to tree top for irregation.

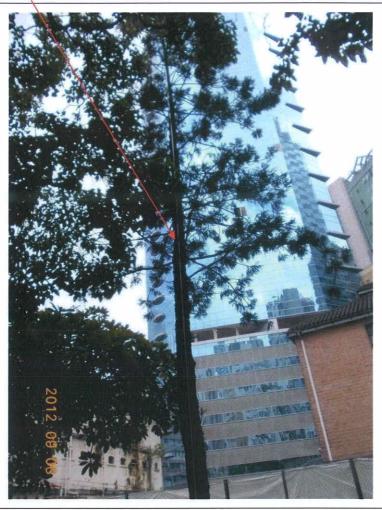


Fig. 5 The site outside the cordon zone is clean and tidy.

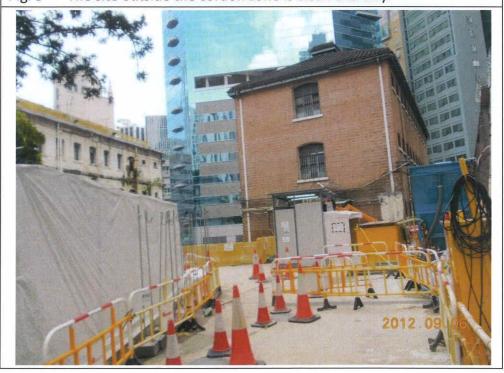
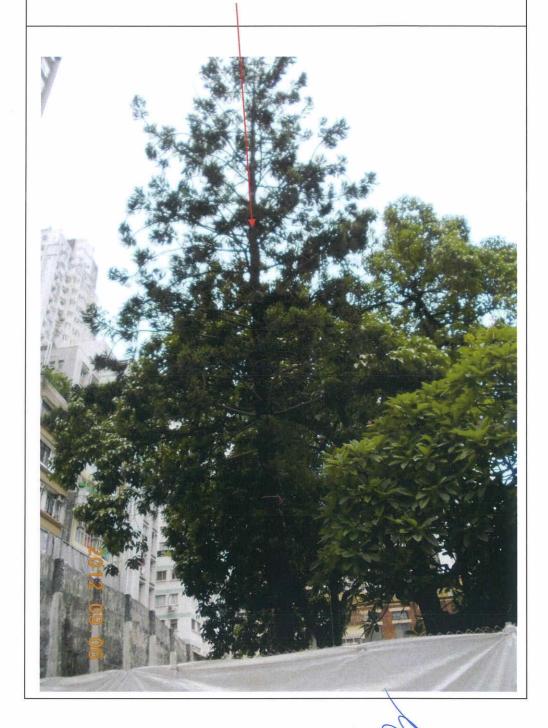




Fig. 6 Overall view of Tree-9 during inspection on 6<sup>th</sup> September 2012.



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.



( Contract Ref. : J3416/400.4/D00025 )

I. TREEE NUMBER: Tree -11 Dracaena marginata 馬尾鐵

#### II. BASIC INFORMATION:

Height (m)	8m	Crown spread (m)	2m
DBH (mm)	170mm	Overall Health Condition	Fair
		Good/Fair/Poor	
Date of Inspection	6 <sup>th</sup> September 2012	Last Inspection Date	20 <sup>th</sup> August 2012

#### III. COMMENTS:

- 1. Overall health condition of the tree is fair.
- 2. Some weeds appear at the planter.
- 3. Cleanliness of the site inside the cordon zone acceptable.
- 4. The wooden door is closed at the time of inspection.
- 5. The site outside the cordon zone is clean and tidy.

#### IV. RECOMMENDATIONS:

1. To clear the weeds away from the planter.

Tree - 11

Dracaena marginata 馬尾鐵

Maintained by:

欣榮(香港)環境管理有限公司

Tel. 9776 1987

2012.09.06



Fig. 2 Some weeds appear at the planter, recommend to clear all these weeds away from the planter.



Fig. 3 Cleanliness of the site is acceptable and the wooden door is closed during inspection on 6<sup>th</sup> September 2012.





Fig. 4 Appropriate notice displays in front of the cordon zone.



Fig. 5 The site outside the cordon zone is clean and tidy at the time of inspection.

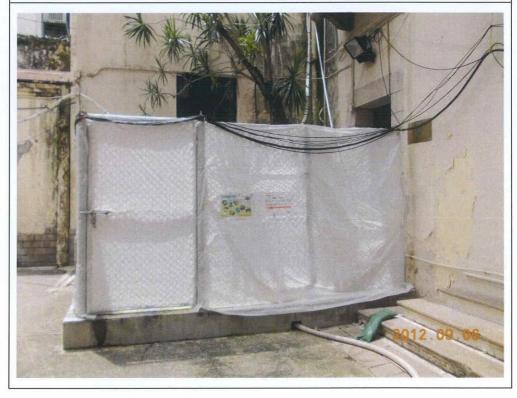
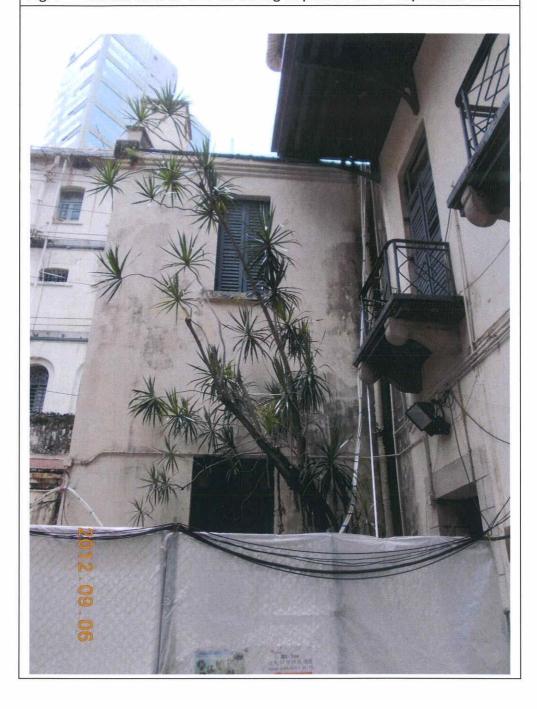




Fig. 6 Overall view of Tree-11 during inspection on 6<sup>th</sup> September 2012.



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.



#### Annex K

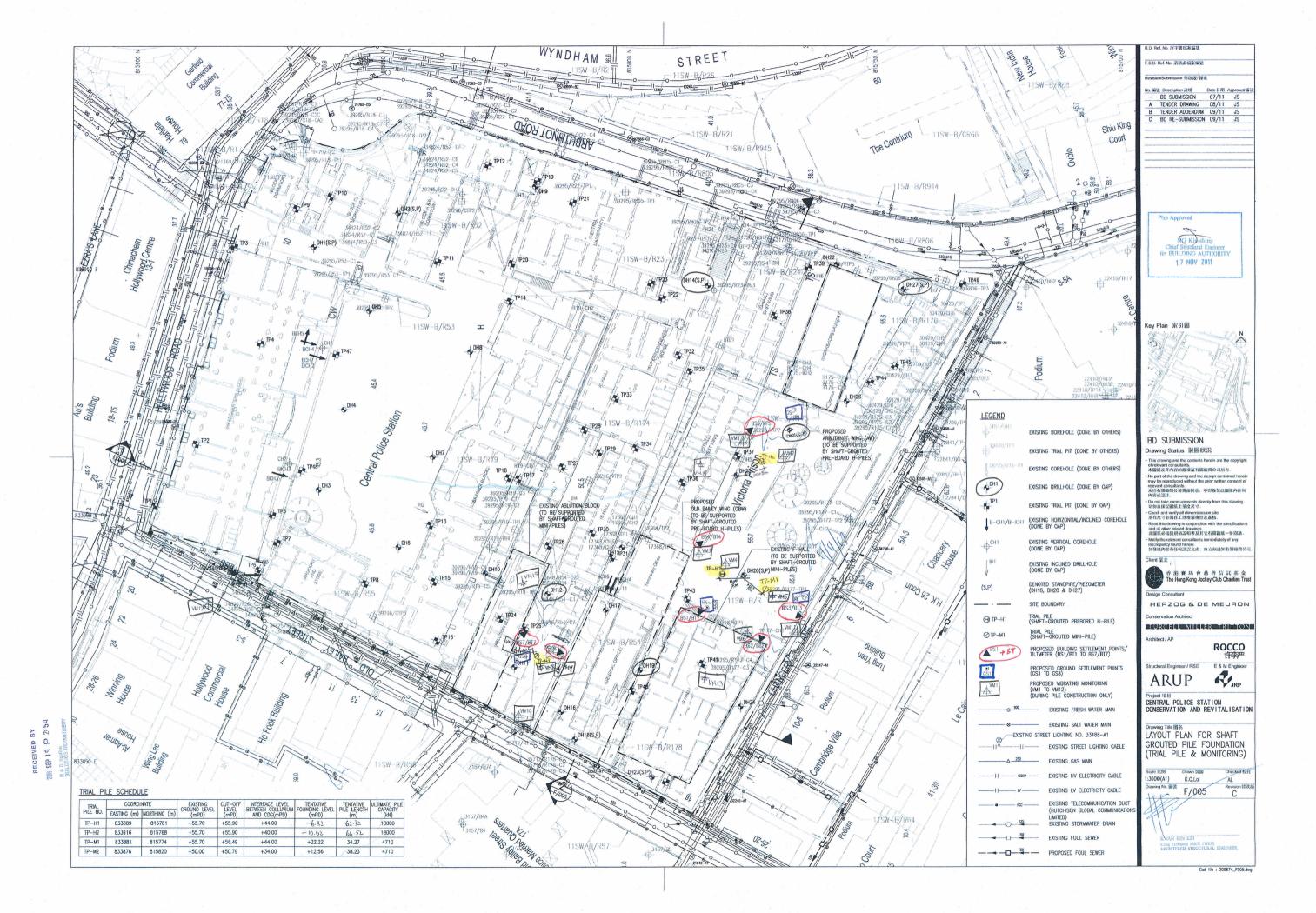
Environmental Complaint, Environmental Summon and Prosecution Log

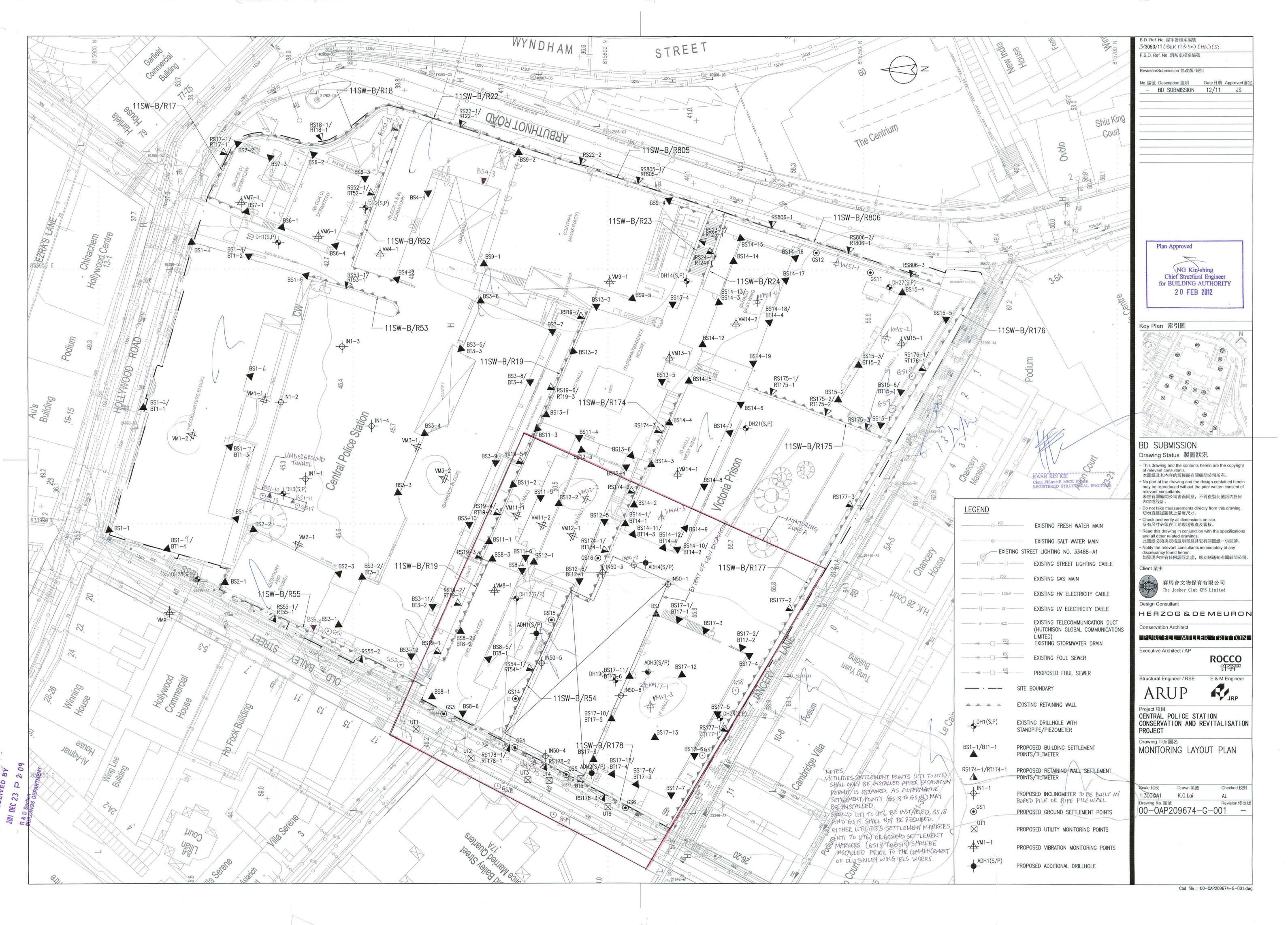
Annex K Cumulative Complaint and Summons/Prosecutions Log

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
Overall Total	7	0

#### Annex L

Records of Vibration
Monitoring for Trial Piling
(Load Test), Piling and
Demolition Works





## (Bored Pile Walls / Pipe Pile Walls at Block 50)

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

Monitoring Check Pts.	Trigger Levels					
Wolfforing Check Pts.	Alert level	Alarm level	Action level			
Vibration 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 Date: 26-8-2012 To 8-9-2012

POINT	Γ	VM8-1	VM11-1	VM11-2	VM12-1	VM12-2	VM14-3	VM17-1	VM17-2	VM17-3
DATE	PD/(m)	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s
19-Jun-2012	(Initial)	0.56	0.13	0.19	0.22	0.13	0.21	0.13	0.13	0.37
27-Aug-2012		0.09	0.11	0.12	0.10	0.11	0.15	0.11	0.12	0.13
28-Aug-2012		0.10	0.13	0.12	0.31	0.11	0.13	0.12	0.11	0.11
29-Aug-2012		0.24	0.13	0.13	0.14	0.11	0.08	0.15	0.21	0.12
30-Aug-2012		0.10	0.09	0.12	0.26	0.18	0.15	0.41	0.11	0.10
31-Aug-2012		0.10	0.29	0.30	0.39	0.10	0.11	0.80	0.43	0.23
1-Sep-2012		0.26	0.23	0.39	0.16	0.80	0.23	0.30	0.45	0.15
3-Sep-2012		0.16	0.31	0.21	0.21	0.36	0.12	0.33	0.19	1.62
4-Sep-2012		0.55	0.20	0.24	0.12	0.11	0.24	0.45	0.13	1.13
5-Sep-2012		0.12	0.11	0.32	0.12	0.80	0.12	0.33	0.83	0.41
6-Sep-2012		0.21	0.13	0.30	0.15	0.16	0.12	0.27	0.21	0.12
7-Sep-2012		0.37	0.11	0.27	0.12	0.25	0.12	0.49	0.78	0.63
8-Sep-2012		0.44	0.35	0.26	0.40	0.31	0.14	0.52	1.40	0.28
								202	27.12	

Prepared by : Lo wing yue (Surveyor)

# ₩₩ 恆誠建築工程有限公司

Win Win Way Construction Company Ltd.

Monitoring Check Pts.	Trigger Levels						
Monitoring Check Fis.	Alert level	Alarm level	Action level				
Vibrating Monitoring	5mm/s	6mm/s	7.5mm/s				

## Vibration Record

Project Tit	le: Cent	Central Police Station Conservation & Revitalization			Project 1	No: WP2	Project No: WP201			to	6-Oct	t-2012				
POIN	т	VM1	VM2	VM3	VM4	VM5	VM6	VM7	VM8	VM9	VM10	VM11	VM12	VM13	VM14	VM15
DATE	PD/(m)	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s
2-Apr-2012	(Initial)	0.58	0.18	0.18	0.66	1.4	0.25	1.14	0.65	0.28	0.22	0.18	0.22	0.18	0.22	0.22
23-Sep-2012									Su.	nday						
24-Sep-2012	-	0.13	0.22	0.19	0.21	0.31	0.69	0.30	0.23	0.60	0.51	0.27	0.41	0.16	0.37	0.31
25-Sep-2012		0.26	0.22	0.27	0.31	0.21	0.27	0.27	0.30	0.33	0.51	0.21	0.81	1.01	0.69	1.27
26-Sep-2012		0.13	0.27	0.19	0.22	0.63	0.81	0.61	0.27	0.31	0.98	1.01	0.13	1,21	0.62	0.19
27-Sep-2012		0.30	0.21	0.71	0.61	0.13	0.28	0.31	0.27	0.66	0.13	0.19	1.13	0.22	0.26	0.21
28-Sep-2012		0.34	0.13	0.72	0.19	0.13	0.19	0.82	1.11	0.27	0.17	0.24	0.23	0.61	0.55	0.13
29-Sep-2012		0.22	0.19	0.41	0.57	0.32	0.81	0.69	0.90	1.05	1.07	0.13	0.13	0.19	0.22	0.41
30-Sep-2012						18.11.			Su	nday					1000	
1-Oct-2012							****	19 118	D.,LU.	Hallden						ESTABLISHED CONTRACTOR
2-Oct-2012									Public	Holiday						
3-Oct-2012		0.13	0.27	0.19	0.22	0.63	0.60	0.61	0.27	0.31	0.98	1.01	0.13	1.21	0.62	0.33
4-Oct-2012		0.30	0.21	0.71	0.61	0.13	0.50	0.31	0.27	0.71	0.13	0.22	1.13	0.22	0.26	0.22
5-Oct-2012		0.13	0.10	0.09	0.15	0.19	0.14	0.14	0.15	0.13	0.16	0.14	0.32	0.26	0.12	0.11
6-Oct-2012		0.12	0.29	0.13	0.13	0.17	0.14	0.13	0.18	0.73	0.10	0.12	0.43	0.11	0.15	0.13

Prepared by : Lo wing yue (Surveyor)

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

## (Bored Pile Walls / Pipe Pile Walls at Block 50)

Monitoring Check Pts.	Trigger Levels						
Monitoring Check Pis.	Alert level	Alarm level	Action level				
Vibration 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				

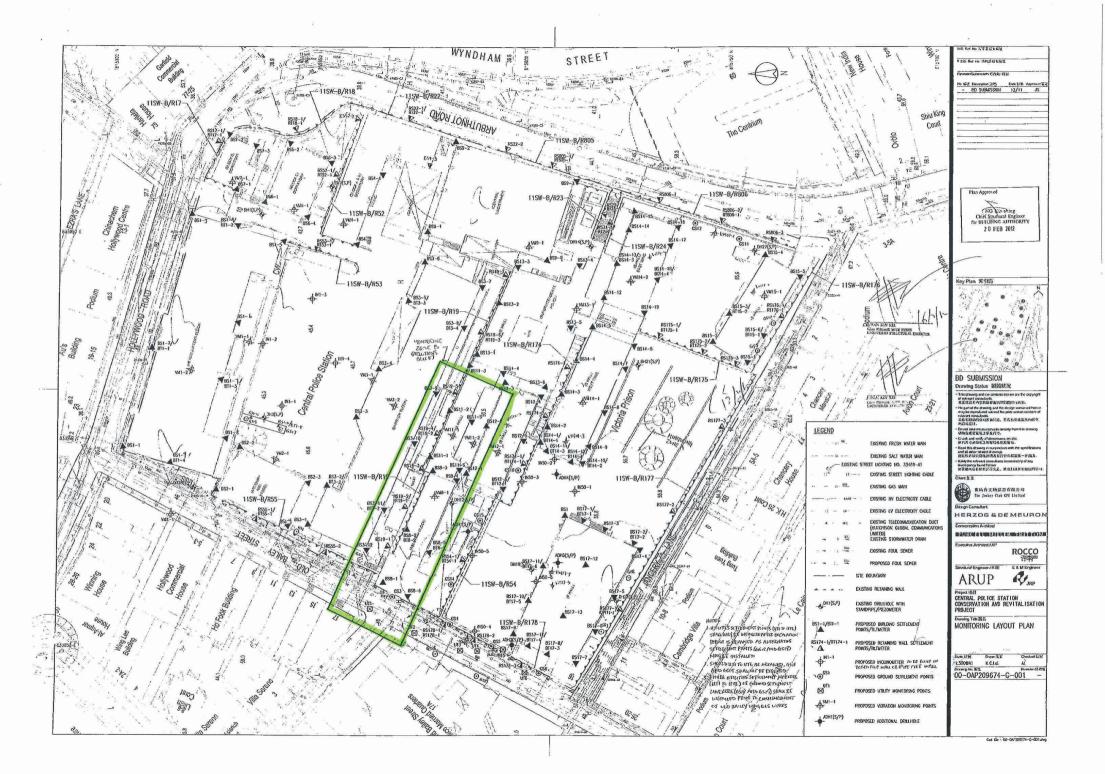
## Vibration Record

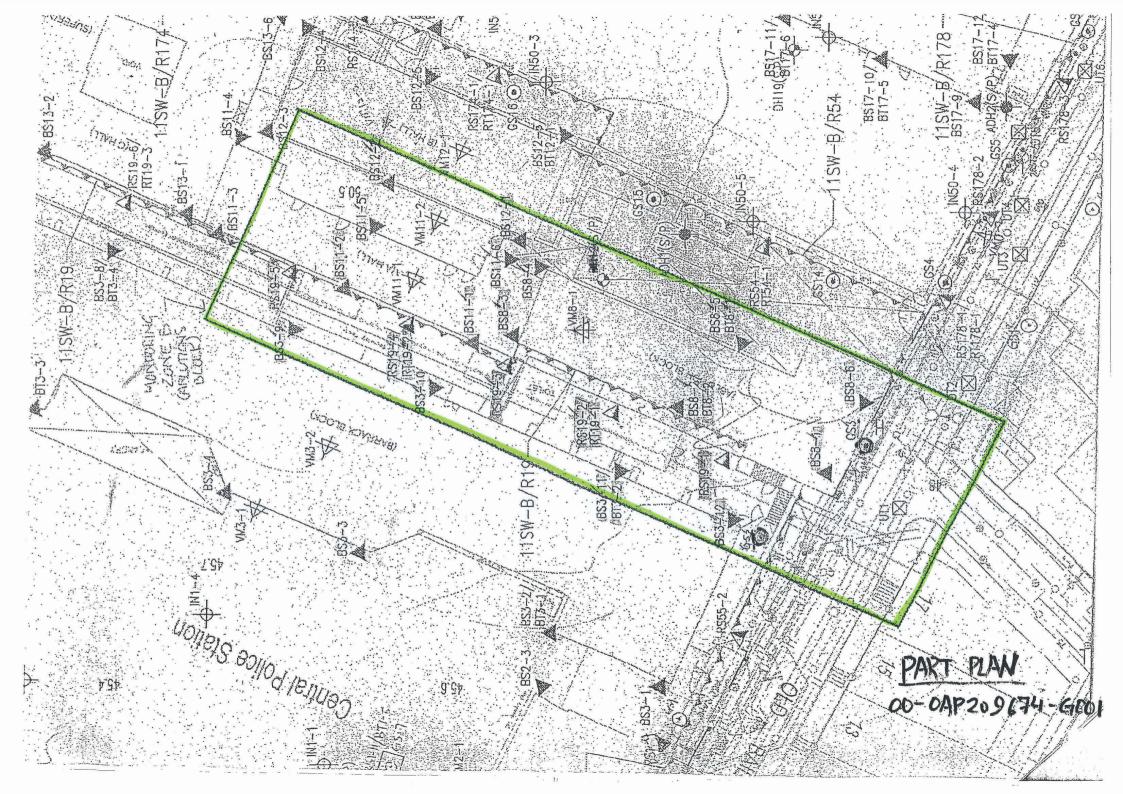
Project Title:	ect Title: Central Police Station Conservation & Revitalization		:: Central Police Station Conservation & Revitalization Project No: WP201							23-Sep-2012	to	6-Oct-2012
POINT		VM8-1	VM11-1	VM11-2	VM12-1	VM12-2	VM14-3	VM17-1	VM17-2	VM17-3		
DATE	PD/(m)	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s		
19-Jun-2012	(Initial)	0.56	0.13	0.19	0.22	0.13	0.21	0.13	0.13	0.37		
#REF!												
23-Sep-2012	73				-	Sunday			G			
24-Sep-2012		0.39	0.14	0.11	0.43	0.12	0.12	0.20	0.46	0.33		
25-Sep-2012		0.14	0.11	0.13	0.13	0.13	0.09	0.12	0.14	0,52		
26-Sep-2012		0.09	0.38	0.21	0.12	0.15	0.11	0.33	0.31	0.22		
27-Sep-2012		0.15	0.23	0.16	0.19	0.12	0.10	0.19	0.57	0.25		
28-Sep-2012		0.17	0.20	0.13	0.17	0.15	0.12	0.23	0.35	0.21		
29-Sep-2012		0.16	0.17	0.17	0.19	0.18	0.39	0.42	0.23	0.37		
30-Sep-2012					***************************************	Sunday			***************************************			
1-Oct-2012						D 11' TY 111	- <del>- 23 - 841 - 1 - 1 - 1 - 1 - 1 - 2 - 1   1 - 1 - 1</del>	· · · · · · · · · · · · · · · · · · ·	TO A CONTRACT OF THE CONTRACT			
2-Oct-2012						Public Holiday						
3-Oct-2012		0.18	0.16	0.18	0.20	0.16	0.18	0.17	0.60	0.31		
4-Oct-2012		0.28	0.19	0.17	0.50	0.19	0.17	0.54	0.41	0.25		
5-Oct-2012		0.14	0.11	0.31	0.13	0.11	0.24	0.12	0.18	0.14		
6-Oct-2012		0.39	0.24	0.30	0.52	0.11	0.11	0.15	0.13	0.12		

Prepared by : Lo wing yue (Surveyor)

### Annex M

Records of Vibration Monitoring for Other Construction Works







## 仁利建築有限公司 Yan Lee Construction Co., Ltd.

Monitoring Check Pts.	Trigger Levels								
Monitoring Check Fis.	Alert level	Alarm level	Action level						
Vibrating Monitoring	2mm/s	2.5mm/s	3mm/s						

### Vibration Record

		1														
POIN	Т	VM8-1	VM11-1	VM11-2												
DATE	PD/(m)	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s
23-Apr-12 (	Initial)	0.212	0.087	0.116												
9-Sep-2012																
10-Sep-2012		0.117	0.092	0.122						8.						
11-Sep-2012		0.126	0.088	0.118												
12-Sep-2012		0.119	0.091	0.123												
13-Sep-2012		0.124	0.086	0.110												
14-Sep-2012		0.116	0.089	0.121												
15-Sep-2012		0.125	0.090	0.119												
16-Sep-2012																
17-Sep-2012		0.112	0.086	0.114												
18-Sep-2012		0.114	0.090	0.117												
19-Sep-2012		0.120	0.092	0.119												
20-Sep-2012		0.113	0.089	0.115		-										
21-Sep-2012		0.116	0.093	0.118												
22-Sep-2012		0.113	0.085	0.114												



## 仁 刻 建 築 有 限 公 司 Yan Lee Construction Co., Ltd.

Monitoring Check Pts.	3	Trigger Level	S
Monitoring Check ris.	Alert level	Alarm level	Action level
Vibrating Monitoring	2mm/s	2.5mm/s	3mm/s

## Vibration Record

		1		n Conservatio				roject No	J. 111 20.			Dat	u. 23-9-20	12 To 6-	10-2012	
POINT		VM8-1	VM11-1	VM11-2												
DATE	PD/(m)	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s	mm/s
23-Apr-12 (	(Initial)	0.212	0.087	0.116			and the latest the same							ALL LOND	Alling	*********
23-Sep-2012	James and the state of the stat															- 1771 II- VI
24-Sep-2012	Secretaria de Albanderia	0.121	0.086	0.113		100000000								ATTEMPT OF THE STREET		
25-Sep-2012		0.117	0.089	0.118			ALEST CHERVING	CAN MALE AVER I		Section House				740		to a control of the c
26-Sep-2012		0.155	0.085	0.114												Companies III
27-Sep-2012	Anna-componentino	0.118	0.090	0.120												
28-Sep-2012		0.114	0.083	0.112							-					-
29-Sep-2012		0.111	0.091	0.117	9.1116-2417-318 <sup>1</sup> 5		pathesiles, a		***************************************							
30-Sep-2012																
1-Oct-2012		J.														
2-Oct-2012											***************************************	<del></del>				
3-Oct-2012		0.108	0.084	0.111	. Jr		- HARRIS HARRY							10		7
4-Oct-2012		0.116	0.088	0.116												
5-Oct-2012		0.120	0.082	0.110				professional sections								
6-Oct-2012		0.109	0.087	0.115	S. 11. 17 - 2011   72. 114								2000			