MONTHLY EM&A REPORT

The Jockey Club CPS Limited

Central Police Station Conservation and Revitalisation Project: *Eighth Monthly EM&A Report* (1 June to 30 June 2012)

Issue Date: July 2012

Environmental Resources Management

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MONTHLY EM&A REPORT

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Central Police Station Conservation and Revitalisation Project: *Eighth Monthly EM&A Report* (From 1 June to 30 June 2012)

Issue Date: July 2012

Reference 0095646

For and on	behalf of
ERM-Hong	Kong, Limited
Approved b Signed:	by: Frank Wan
Position:	Partner
Certified by (Enviro	r: onmental Team Leader – Winnie Ko)
Date: _	16 July 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.

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Date: 16 July 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.8

We refer to your letter dated 16 July 2012 regarding the Monthly EM&A Report No.8. 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.

Grafab

Sharifah Or Independent Environmental Checker

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

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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 eighth monthly Environmental Monitoring and Audit (EM&A) report presenting the EM&A works carried out during the period from 1 June to 30 June 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 (Blocks 8 and 17);
- Demolition works (Stage 2); and
- Trial piling works and preservation by record.

Environmental Monitoring and Audit Progress

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

•	Construction noise monitoring during normal weekdays at each	
	monitoring station	6 times
•	Joint environmental site inspection	1 time
•	Joint heritage site inspection	1 time
•	Landscape & visual monitoring	1 time
•	Tree inspection	1 time
•	Vibration monitoring for demolition works	14 times
•	Vibration monitoring for trial pile works	20 times
•	Vibration Monitoring for other construction works	25 times
•	Vibration Monitoring for other construction works	25 times

Noise

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

Cultural Heritage

14 numbers of vibration measurement events were carried out for Stage 2 demolition works during the reporting period. 20 numbers of vibration measurement events for trial pile works were carried out. 25 numbers of vibration monitoring were carried out in June 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 15 June 2012. The Contractor has generally implemented the mitigation measures as recommended.

Landscape & Visual

Landscape and visual monitoring has commenced since October 2011 on a monthly basis. Tree inspection has been conducted on 7 June 2012 by the arborist during the reporting period. Some recommended actions have been performed by the Contractor as advised in the last reporting period. Some are yet to be implemented and a few more observations have been identified.

Waste Management

Wastes generated from this Project include inert construction and demolition (C&D) materials and non-inert C&D materials. A total of 383.11 tonnes of inert C&D material were generated during the reporting period. 27.41 tonnes of non-inert C&D materials comprising general refuse were generated and disposed of at the SENT Landfill. No paper/cardboard packaging or plastics was generated and sent to recyclers for recycling. 1,100 kg of metals were produced and were sent to recyclers for recycling. 40 kg of solid chemical waste and 45 L of liquid chemical waste were collected 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 15 June 2012. Details of the audit finding are presented in *Section 6*.

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

Two Action Level exceedances of noise were recorded during the reporting period. No exceedance of 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.

Two complaints were received during the reporting period.

No summon/prosecution was received during the reporting period.

Future Key Issues

Works to be undertaken in the next month include:

- Underpinning works, strengthening works and structural alteration works; and
- Trial piling works and preservation by record.

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

ENVIRONMENTAL RESOURCES 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 eighth EM&A report which summarises the impact monitoring results and audit findings for the EM&A programme during the reporting period from **1 June** to **30 June 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

2.1 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 2.1Summary of Construction Activities Undertaken from 1 June to 30 June 2012

Construction Activities Undertaken

- Underpinning works, strengthening works and structural alteration works (Blocks 8 and 17);
- Demolition works (Stage 2); and
- Trial piling works and preservation by record.

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 <i>Waste</i> <i>Disposal Ordinance</i>	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.: 0210/11/ED/0078A) is in accordance with the APCO

Permit/ Licences/ Notification	Reference	Validity Period	Remarks
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.

3.1 NOISE MONITORING

3

3.1.1 Monitoring Location

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

Table 3.1Construction Phase Noise Monitoring Station

Monitoring Location	Proposed Construction Noise Monitoring Station			
	ID in EM&A Manual	ID	Type of Measurement	Remark
Rooftop of Ho Fook Building	N2	NM2	Façade	-
Rooftop of Chancery Mansion		NM6	Façade	Accesses to the original proposed monitoring location in the EM&A Manual, Chancery House (N5), were denied; alternative location of Chancery Mansion (N6), were therefore proposed and approved by the Authorised Person (AP), the Independent Environmental Checker (IEC) and EPD.

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

3.1.2 Monitoring Parameters, Frequency and Programme

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

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

3.1.3 Monitoring Equipment and Methodology

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

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

Table 3.2Noise Monitoring Equipment

Monitoring Stations	Monitoring Equipment (Sound Level Meter and Calibrator)
NM2, NM6	<u>Calibrator</u> Rion NC-73 (S/N 10997142)
	<u>Sound Level Meter</u> Rion-NL52 (S/N 00710259)

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.

3.1.4 Event / Action Plan

Table 3.3 Action and Limit Levels for Construction Noise Monitoring

Noise Monitoring Location	Action Level	Limit Level,	Remark
		Leq(30mins), dB(A)	
NM2, NM6	When one documented complaint is received from any one of the sensitive receivers	75	Applicable during 0700 – 1900 hours on normal weekdays.

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

Vibration monitoring for trial 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 at each vibration monitoring location.

Vibration Monitoring for Other Construction Works

Vibration monitoring for specific construction works other than the demolition and trail pile 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 depends 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 3.4Alert, 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 3.5Event and Action Plan for Vibration Monitoring

Events	Action
Exceedance of Alert Level	Notify Management Contractor
Exceedance of Alarm Level	Notify Authorised Person/ Resident Engineer

Events	Action
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.

IMPLEMENTATION STATUS ON ENVIRONMENTAL PROTECTION REQUIREMENTS

The Contractor has generally implemented 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 4.1Status of Required Submissions

4

Submission		Submission Date
EP Condition		
Condition 3.4	Seventh Monthly EM&A Report	14 June 2012
EM&A Manual		
Section 10.4	Second Quarterly EM&A Report	14 June 2012

5.1 NOISE

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

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

No exceedance of Limit Levels of construction noise was recorded during the reporting period. Two Action Level exceedances of noise were recorded during the reporting period.

5.2 CULTURAL HERITAGE

14 numbers of vibration monitoring were conducted in June 2012 for the Stage 2 demolition works of Building M and Building P. The records of vibration monitoring are shown in *Annex L*.

20 numbers of vibration monitoring for the trial pile works were conducted in June 2012. The monitoring readings are presented in *Annex M*.

25 numbers of vibration monitoring were carried out in June for the structural alternations and additions works at Block 8. The monitoring readings are presented in *Annex N*.

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

Monthly heritage site audit was conducted on 15 June 2012 by the Heritage Checker. The Contractor was reminded to ensure that all demolition works at the interfaces with the historical buildings are conducted in accordance with the method statements. The Contractor was also advised to remove debris from the ladder store to Building 13. The follow-up actions recommended in the May audit have been implemented.

5.3 LANDSCAPE AND VISUAL

The tree inspection was conducted by the arborist on 7 June 2012 and major findings and recommendations in the reporting period are summarised as *Table 5.1.* The tree inspection report is contained in *Annex J*.

Tree No.	ee No. Botanical Name Over Cond		Arborist's Observations / Recommendations		
Tree -5	Mangifera indica	Good	To trim the lower branches.All the undergrowth was		
Tree -6	Aleurites moluccana	Fair	 removed on 7 June 2012. Overgrown branches/leaves were pruned on 1 June 2012. 		
Tree-7	Aleurites moluccana	Fair	• Overgrown branches/leaves were pruned on 1 June 2012.		
Tree-8	Plumeria rubra	Fair	• No further action required.		
Tree-9	Araucaria cunninghamia	Fair	• The tree emits transparent juice on a cavity. Close observation is required in the coming months.		
Tree-11	Dracaena marginata	Fair	• To remove the dead branches before typhoon seasons.		

Table 5.1Findings of Monthly Tree Inspection in the Reporting Period

Some recommendations in May have been implemented at the time of the site inspection in June. All the undergrowth in Tree-5 has been removed and lower branches and leaves in Tree-6 and Tree-7 have been pruned as well. Some were yet to be implemented at the time of the site inspection in June, including trimming of the lower branches in Tree-5 and the removal of dead branches in Tree-11.

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. 1,100 kg of metals were generated and were sent to recyclers for recycling. No paper/cardboard packaging or plastics was generated or sent to recyclers for recycling. 40 kg of solid chemical waste and 45 L of liquid chemical waste were generated during the reporting period.

Table 5.2Quantities of Waste Generated from the Project

Month /	Quantity						
Year	C&D C&D		Chemical		Recycled materials		
	Materials	Materials	W	aste			
	(inert) ^(a)	(non-inert) ^(b)	Solid	Liquid	Paper /	Plastics	Metals
					cardboard		
June 2012	383.11	27.41	40 kg	45 L	0 kg	0 kg	1,100 kg
	tonnes	tonnes					
Notes:							
	&D materials	include bricks,	concret	e, buildin	g debris, rubbl	e and excava	ated soil.

(b) Non-inert C&D materials include wastes such as general refuse which were disposed of at SENT Landfill and recyclable materials are paper, cardboard, plastics and metals. The figure presented under non-inert C&D materials represents quantities of non-recyclable materials. Recycled materials are reported separately. Joint environmental site inspection was conducted by the representatives of the Contractor, IEC and the ET in the reporting period on 15 June 2012. There was no non-compliance recorded during the site inspections.

Recommendations in May have been implemented by the Contractor at the time of the June inspection, including:

- The holes on the rubbish bins have been covered with plastic sheets. However, stagnant water remained in one yellow rubbish bin near the site office. The Contractor was advised to remove all stagnant water before covering the holes on the rubbish bins to prevent the breeding of mosquito; and
- The stockpile of soil near the Arbuthnot Wing has been covered with impervious sheet.
- According to the information provided by the Contractor, noise barrier or insulating sheet has been installed for the trial piling during the reporting period.

No major issue with environmental implications was observed during the site inspection.

7 ENVIRONMENTAL NON-CONFORMANCE

7.1 SUMMARY OF MONITORING EXCEEDANCE

Two Action Level exceedances of noise were recorded during the reporting period. No exceedance of Limit Levels of construction noise and Alert, Alarm and Action Levels of vibration were 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

Two complaints about noise nuisance were received by Gammon Construction Limited (the Contractor) from the EPD on 14 June 2012 and the Hong Kong Jockey Club on 28 June 2012.

Table 7.1Summary of Complaint Received

Date of Complaint Received by the Contractor	Means by which complaint was received	Nature of complaint
14 June 2012	Environmental Protection Department	Noise nuisance
28 June 2012	Central Police Station Website, Enquiry	Noise nuisance
	System	

On 14 June, the Contractor received a complaint from the EPD that a neighbourhood resident complained the noise nuisance from Project Site near the Chancery Lane at around 8:30 pm on 13 June 2012. According to the works summary provided by the Contractor, no major construction activities were carried out but only manual washing of pile tubes was conducted near Block 17 at around 8:30pm on 13 June 2012. In light of the proximity of the location of the complainant and that of the works taken, manual washing of pile tubes could be the possible source of noise nuisance.

On 28 June, the Contractor was informed of a complaint about the noise nuisance generated from the Project Site at 8:30 pm on 12 June 2012, which was recorded on the Enquiry System of the Central Police Station Website on 12 June 2012. According to the information provided by the Contractor, no major construction activities were carried out but only manual washing of grouting tube and casing and site cleaning work were conducted near Block 17 at around 8:30 pm on 12 June 2012.

The Contractor was reminded to emphasize the legal requirement of working in the restricted hours to site management team and workers. The following measures have also been implemented by the Contractor to further minimise the noise nuisance to the adjacent users:

- Operation team (e.g. site agent, sub-agent) has conducted site inspection at 6:00 pm since 14 June 2012 to ensure all construction works cease and to switch off the operating PME (e.g. ventilation fan) if no valid CNP was granted by the EPD;
- Reminder letters regarding the legal requirement of working in the restricted hours, period of restricted hours, application of Construction Noise Permit (CNP) and in-house rules have been issued to each work package contractor on 18 June 2012;
- An internal meeting with manager of Gammon, the Engineer and site agent was carried out on 18 June 2012 to emphasize the application of CNP, period of restricted hours and in-house rules for working in the restricted hours;
- Tool Box Talk about good site practices, work during restricted hours and Permit to Work System has been conducted for frontline workers and operation supervisor team on 20 June 2012; and
- Electricity supply to the construction on site has been automatically switched off at 6:50 pm besides the supply for the office and emergency lighting since 25 June 2012.

The complaint investigation reports are 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 8.1Construction Works to be Undertaken in the Coming Month

Work to be taken

- Underpinning works, strengthening works and structural alteration works; and
- Trial piling works and preservation by record.

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

8.2 MONITORING SCHEDULE FOR THE NEXT MONTH

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

8.3 CONSTRUCTION PROGRAMME FOR THE NEXT MONTH

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

CONCLUSIONS

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

No exceedance of the Limit Levels of construction noise was recorded at designated monitoring stations during the reporting period. Two Action Level exceedances of noise were recorded 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.

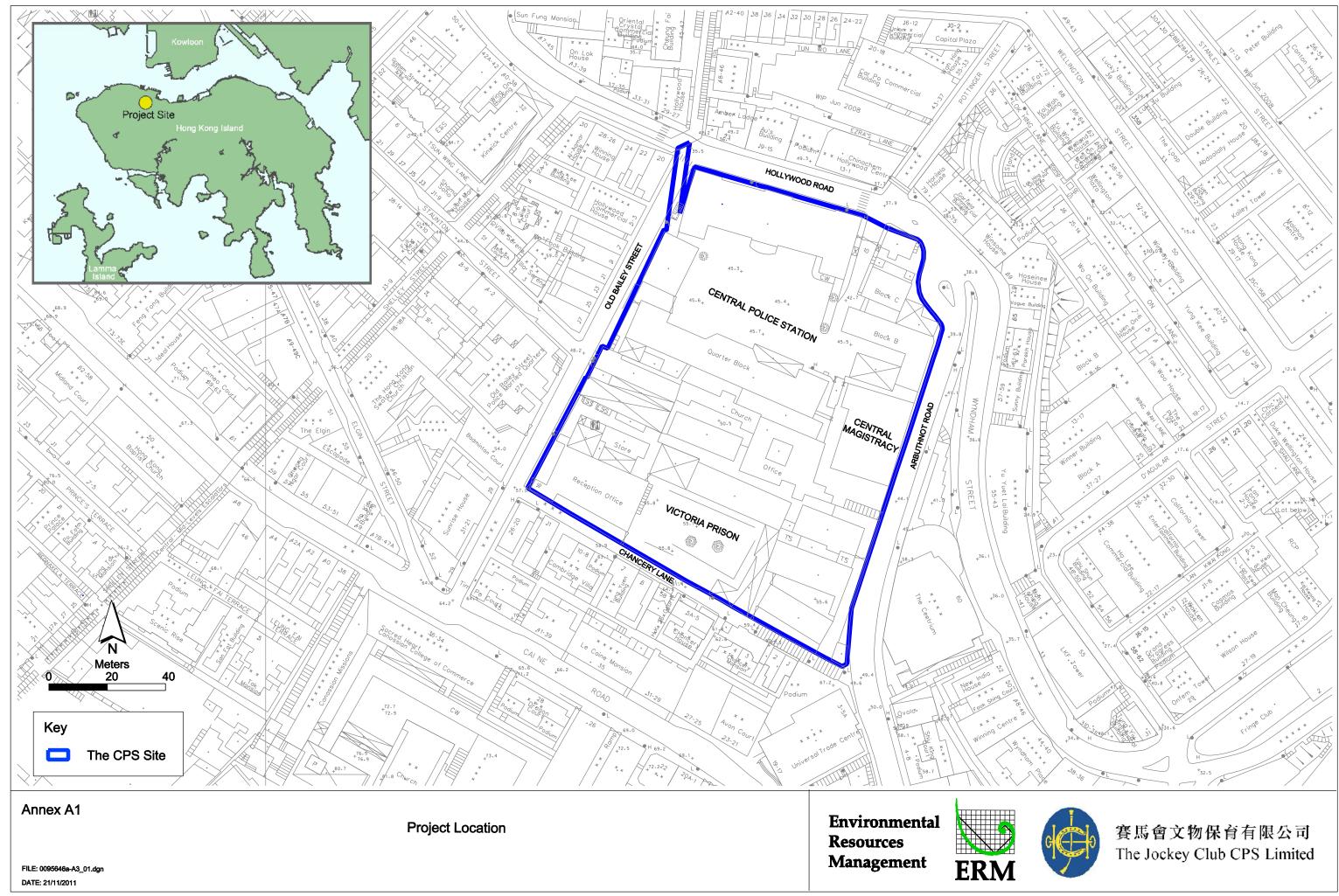
No non-compliance event was recorded during the reporting period.

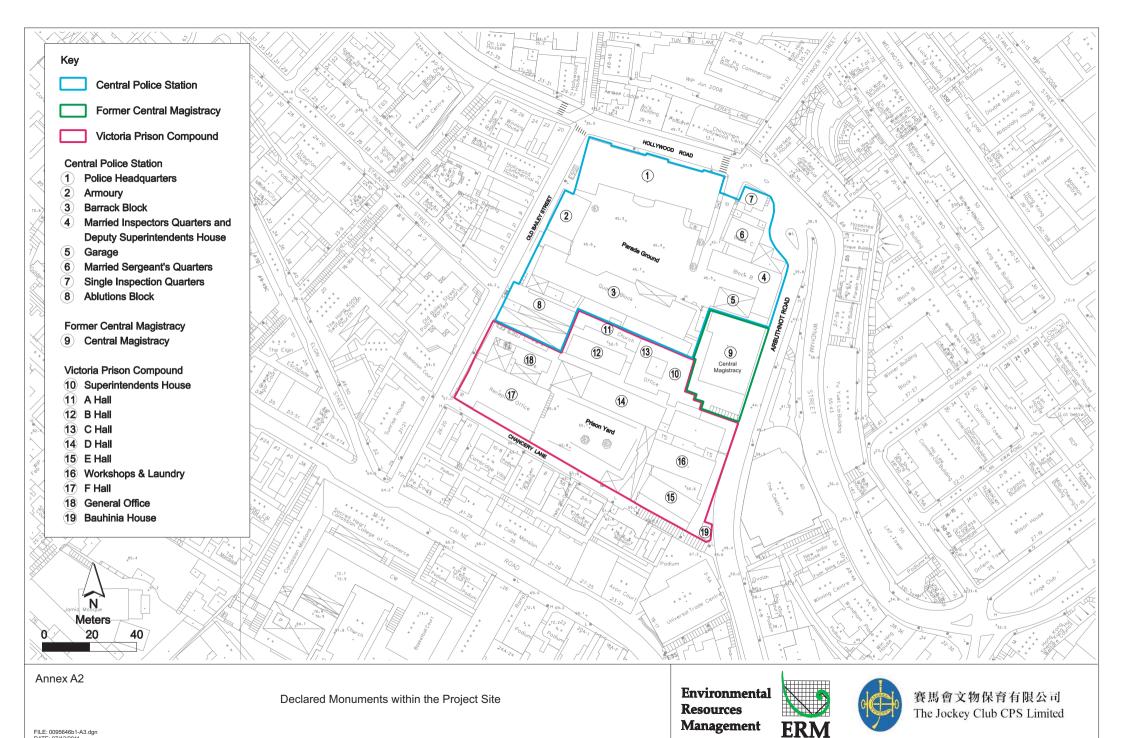
Two complaints were received during the reporting period.

No summon/prosecution was received during the reporting period.

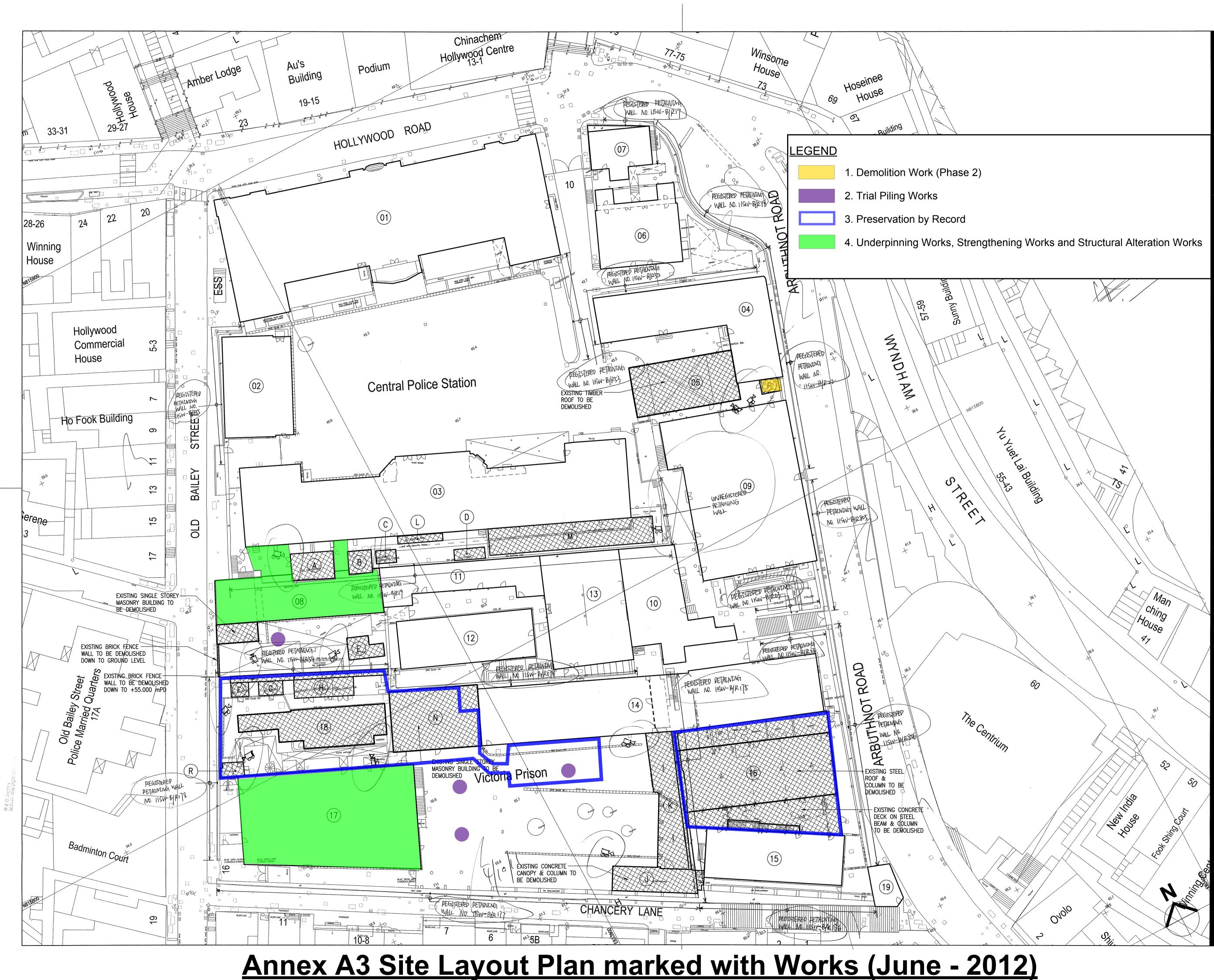
The ET will keep track on the EM&A programme to ensure compliance of environmental requirements and the proper implementation of all necessary mitigation measures. Annex A

Locations of Works Areas and the Surroundings





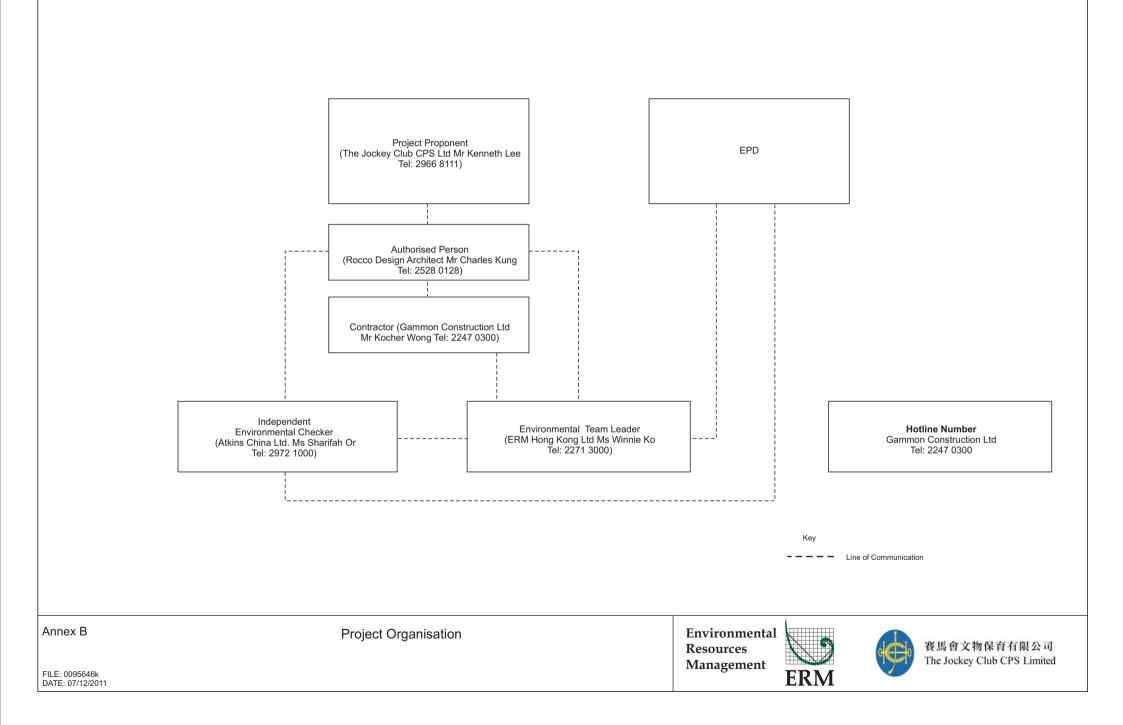
FILE: 0095646b1-A3.dgn DATE: 07/12/2011



2011 AUG - 8

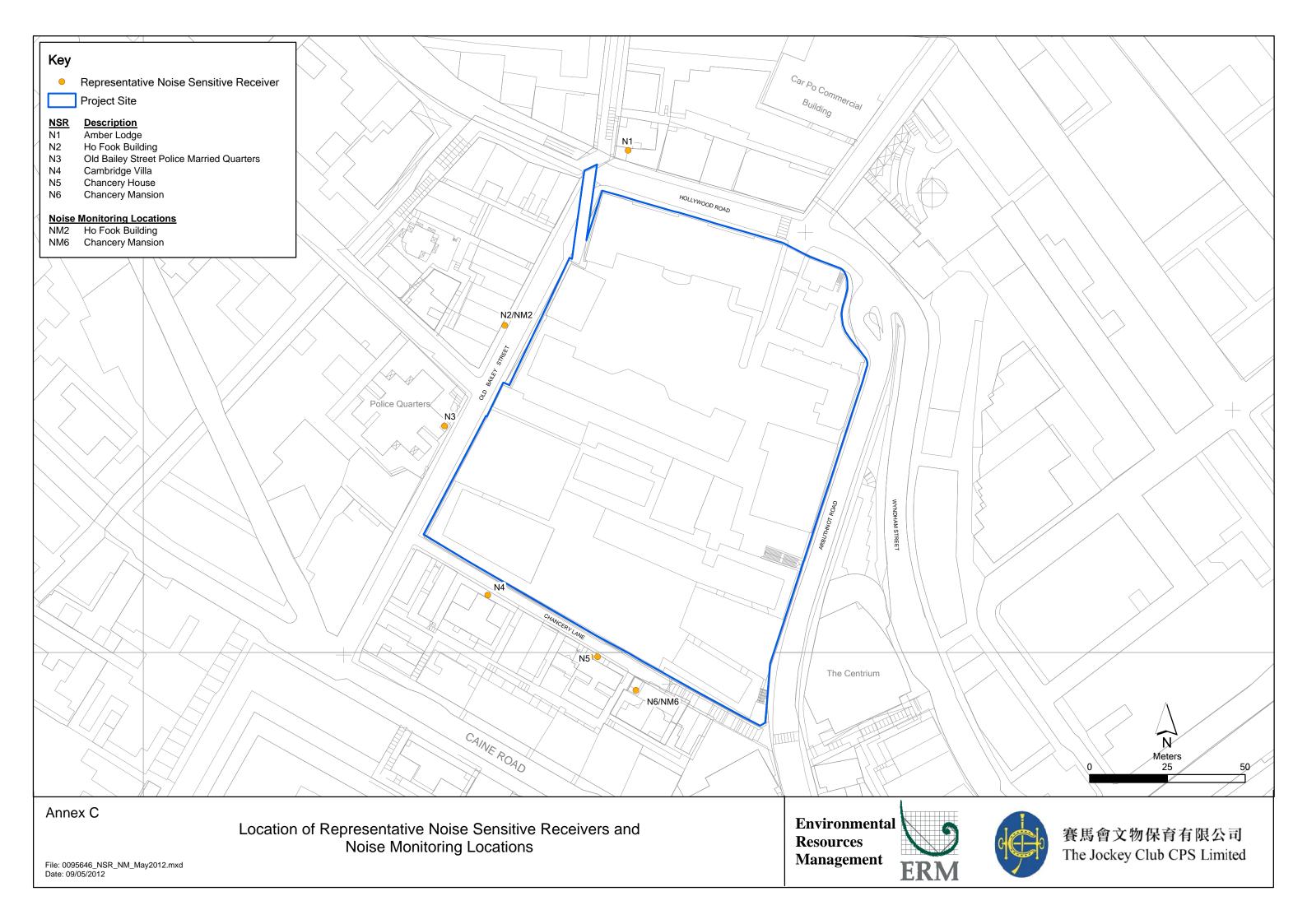
Annex B

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 Coservation and Revitalisation (Ho Fook Building - NM2 & Chancery Mansion - NM6) Monitoring Schedule for Reporting Month - June 2012

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

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

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

Annex E

Calibration Reports for Calibrators and Sound Level Meters



Certificate No. : C113870

Certificate of Calibration

This is to certify that the equipment

Description : Sound Level Calibrator Manufacturer : Rion Model No. : NC-73 Serial No. : 10997142

has been calibrated for the specific items and ranges. The results are shown in the Calibration Report No. C113870.

The equipment is supplied by

Co. Name : Envirotech Services Co.

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

Date of Issue : 11 July 2011

Certified by : HC Chan

The test equipment used for calibration are traceable to the National Standards as specified in this report. This report shall not be reproduced except in full and with prior written approval from this laboratory.

Calibration and Testing Laboratory of Sun Creation Engineering Limited

c/o 4/F. Tsing Shan Wan Exchange Building, 1 Hing On Lane, Tuen Mun, New Territories, Hong Kong Tel: 2927 2606 Fax: 2744 8986 E-mail: callab@suncreation.com Website: www.suncreation.com



Report No. : C113870

Calibration Report

ITEM TESTED

DESCRIPTION	:	Sound Level Calibrator
MANUFACTURER	:	Rion
MODEL NO.	:	NC-73
SERIAL NO.	:	10997142

TEST CONDITIONS

AMBIENT TEMPERATURE: $(23 \pm 2)^{\circ}C$ LINE VOLTAGE:---

TEST SPECIFICATIONS

Calibration

DATE OF TEST : 11 July 2011

JOB NO. : IC11-1713

RELATIVE HUMIDITY : $(55 \pm 20)\%$

TEST RESULTS

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
- The Bruel & Kjaer Calibration Laboratory, Denmark
- Rohde & Schwarz Laboratory, Germany
- Fluke Everett Service Center, USA
- Agilent Technologies, USA

Tested by : KC Lee

Date : 11 July 2011

The test equipment used for calibration are traceable to the National Standards as specified in this report. This report shall not be reproduced except in full and with prior written approval from this laboratory.

Calibration and Testing Laboratory of Sun Creation Engineering Limited

c/o4/F, Tsing Shan Wan Exchange Building, 1 Hing On Lane, Tuen Mun, New Territories, Hong KongTel: 2927 2606Fax: 2744 8986E-mail: callab@suncreation.comWebsite: www.suncreation.com



輝創工程有限公司

Sun Creation Engineering Limited Calibration and Testing Laboratory

Report No. : C113870

Calibration Report

- 1. The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 24 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 IDDescriptionCertificate No.TST150AMeasuring AmplifierC101008CL130Universal CounterC113350CL281Multifunction Acoustic CalibratorC1006860

- 4. Test procedure : MA100N.
- 5. Results :
- 5.1 Sound Level Accuracy
- 5.1.1 Before Adjustment

UUT	Measured Value	Mfr's Spec.	Uncertainty of Measured Value
Nominal Value	(dB)	(dB)	(dB)
94 dB, 1 kHz	94.3	± 0.5	± 0.2

5.1.2 After Adjustment

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

5.2.1 Before Adjustment

UUT Nominal Value	Measured Value	Mfr's	Uncertainty of Measured Value	
(kHz)	(kHz)	Spec.	(Hz)	
1	0.991	1 kHz ± 2 %	± 1	

5.2.2 After Adjustment

UUT Nominal Value	Measured Value	Mfr's	Uncertainty of Measured Value
(kHz)	(kHz)	Spec.	(Hz)
1	0.991	1 kHz ± 2 %	± 1

The test equipment used for calibration are traceable to the National Standards as specified in this report. This report shall not be reproduced except in full and with prior written approval from this laboratory.

Calibration and Testing Laboratory of Sun Creation Engineering Limited



輝創工程有限公司

Sun Creation Engineering Limited Calibration and Testing Laboratory

Report No. : C113870

Calibration Report

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

Note :

The values given in this Calibration Report 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 National Standards as specified in this report. This report shall not be reproduced except in full and with prior written approval from this laboratory.

Calibration and Testing Laboratory of Sun Creation Engineering Limited



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

Certificate of Calibration

Name	•	Precision so	und level meter
Model	:	NL-52 (NX-42EX	S/No. : 00710259 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.



Annex F

Event / Action Plans for Noise

Annex F Event and Action Plan for Noise

Event				Ac	tion				
	Environmental Team (ET)		Independent Environmental Checker (IEC)		A	Authorised Person (AP)		Contractor	
Action Level	1. 2. 3. 4. 5.	Notify IEC and Contractor; Carry out investigation; Report the results of investigation to the IEC, AP and Contractor; Discuss with the Contractor and formulate remedial measures; Increase monitoring frequency to check mitigation effectiveness.	 1. 2. 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.	 1. 2. 3. 4. 	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. 2.	Submit noise mitigation proposals to IEC; Implement noise mitigation proposals.	
Limit Level	 1. 2. 3. 4. 5. 6. 7. 8. 	Identify source; Inform IEC and AP; Repeat measurements to confirm findings; Increase monitoring frequency; Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; Inform IEC, AP and EPD the causes and actions taken for the exceedances; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and AP informed of the results; If exceedance stops, cease additional monitoring.		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.	 1. 2. 3. 4. 5. 	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.	 1. 2. 3. 4. 5. 	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
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EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
Cultur	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	1
S3.9.2	S3.3.1	<u>Vibration Monitoring</u> A baseline condition survey and baseline vibration impact will be conducted by a specialist for the approval of AMO and Buildings Department prior to commencement of the construction works to define the vibration control limits and recommend a vibration monitoring proposal for the concerned historic buildings and structures in and outside CPS for AMO's prior approval before commencement of the construction works.	Historic buildings and structures in CPS, the granite walls at Old Bailey Street and the proposed Grade 3 historic building (No. 20 Hollywood Road)	During detailed design and construction	\checkmark
S3.9.2	S3.3.3	<u>Compliance of the Approved Measures and Auditing</u> Staff training by an experience building conservation expert or relevant competent person(s) in the environmental team of the project should be provided to the on-site staffs, contractors, sub-contractors and workers of the project before commencement of works to ensure their full understanding of the approved protection schedule, restoration proposal and work methodologies related to cultural heritage, and their respective responsibilities in the implementation of the environmental protection measures. Regular site audit for cultural heritage should be carried out in the construction phase by an experience building conservation expert in the	Whole site	Prior to and during construction	1
		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			

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	<u>Archival Recording</u> An archival recording should be conducted to provide a detailed reference for the update of the Conservation Management Plan and inventory of historical features of the monuments, the preparation of as- built drawings showing the condition of the historic buildings and structures after the completion of the construction works. These archival records will be a reference source for future maintenance of the character defining elements, conservation of the monuments, interpretation and conservation education of the Site. The archival recording shall include but not limit to the video and photographic recording on the detailed process of the repair trials for different kinds of historical features, conservation works of character defining elements and historic fabrics of the monuments, and a written records of any new changes to the detailed design made in the construction phase illustrate with photos and drawings. A full set of the archives records (including both hard and soft copies) should be submitted to the AMO for approval after the work completion for record purpose. Any new findings related to the conservation of built heritage in the Site identified during the detailed design stage and construction phases shall be properly recorded in details for notification to the AMO and update of the Conservation Management Plan.	Whole Site	During detailed design, construction and prior to operation	N/A – Archival recording will be conducted at later stage.
S3.7.3	-	<u>General Construction Methods</u> 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	N

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 upd	Whole site	During detailed design, construction, post- construction and operation	√- CMP was implemented during the 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	pe & Visi	ıal	I		
S4.7.27	-	<u>In-situ Tree Protection - Cordon Zone (CZ)</u>	Whole site	During construction	\checkmark
		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			
6470		wastewater from intruding the soil inside the CZ.			
S4.7.2	-	In-situ Tree Protection - Advanced & Phased Root Pruning	Whole site	During construction	\checkmark
		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.			
S4.7.2	-	In-situ Tree Protection - Foliage cleansing system	Whole site	During construction	\checkmark
		A sprinkler cleansing system will be installed either in the crown of the tree or at a suitable location on an adjacent building to provide the			

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	<u>In-situ Tree Protection - Monthly inspection</u> 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	\checkmark
S4.7.2	-	protected trees, must be reported to the authorized person or the tree expert within two days. <u>Light Control</u>	Whole site	During	√
		Control of night-time lighting shall be implemented to minimise impact to adjacent VSRs.		construction and operation	
S4.7.2	S4	<u>Compensatory Tree Planting</u> 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. 			
		- <i>Bauhinia purpure, a</i> native evergreen with lighter purple flowers from late autumn to early winter.			
		 Bauhinia variegata, an exotic deciduous species, with pale pinkish flowers in spring to early summer often when the tree has little or no leaves. 			
S4.7.2	S4	Vertical Greening	Inner Southern Wall	During detailed design and	N/A – No vertical greening was conducted during the reporting month.
		Within the limitations of the conservation of the CPS character, greening of vertical structures should be provided where possible.		construction	1
		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			

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	-	<i>New Custom Paving</i> 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	<u>In-situ Tree Protection - Quarterly inspection</u> Quarterly Inspection of affected and newly planted trees by an experienced and appropriately trained arborist or horticulturist using Form 1 – Tree Group Inspection Form and Form 2 – Tree Risk Assessment Form developed by Development Bureau (http://www.trees.gov.hk/en/doc/TRAGuideline_July2010version_combine.pdf) or a form designed by a tree expert and approved by Tree Management Office for a period of 12 months after construction.	Whole site	During post construction and operation	N/A – The quarterly inspection will be conducted at later stage.
Noise	•		•		
<i>S5.9</i>	-	 The following site practices should be followed during the construction of the Project: Only well-maintained plant will be operated on-site and plant will be serviced regularly during the construction phase; Silencers or mufflers on construction equipment will be utilised and will be properly maintained during the construction phase; Mobile plant, if any, will be sited as far away from NSRs as possible; 	Whole Site	During construction	N/A – Not observed.

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
		 Machines and plant (such as trucks) that may be in intermittent use will be shut down between work periods or will be throttled down to a minimum; Plant known to emit noise strongly in one direction will, wherever possible, be orientated so that the noise is directed away from the nearby NSRs; and Material stockpiles and other structures will be effectively utilised, wherever practicable, in screening noise from on-site construction activities. 			
<i>S</i> 5.9	-	Noise insulating sheet would be adopted for certain PME (eg drill rig, excavator for demolition of existing structures, etc). The noise insulating sheet should be deployed such that there would be no opening or gaps on the joints.	Whole Site	During construction	\checkmark
<i>S5.9</i>	-	Use temporary noise barriers to mitigate the noise impact arising from the construction works, particularly for low-rise NSRs. Movable noise barriers of 3 m in height with skid footing should be used and located within a few metres of stationary plant and mobile plant such that the line of sight to the NSR is blocked by the barriers. The length of the barrier should be at least five times greater than its height. The noise barrier material should have a superficial surface density of at least 7 kg m ⁻² and have no openings or gaps.	Whole Site	During construction	N/A – Not observed.
<i>S5.9</i>	-	Use quiet PME as far as practicable to mitigate the construction noise impact.	Whole Site	During construction	\checkmark
<i>S5.9</i>	-	Scheduling of construction activities with identified grouping of PMEs.	Whole Site	During construction	\checkmark
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	\checkmark
Air Qu	ality				
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	\checkmark

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	\checkmark
S6.8.1	-	Impervious sheet will be provided for skip hoist for material transport.	Whole Site	During construction	\checkmark
S6.8.1	-	Vehicle washing facilities will be provided at the designated vehicle exit points.	Whole Site	During construction	\checkmark
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	\checkmark
S6.8.1	-	Road sections between vehicle-wash areas and vehicular entrances will be paved.	Whole Site	During construction	\checkmark
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	\checkmark
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	\checkmark
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	\checkmark
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	\checkmark
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	\checkmark

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	\checkmark
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	\checkmark
Water (Quality				
S7.6	-	Channels, earth bunds or sand bag barriers will be provided on site to direct stormwater to silt removal facilities. The design of silt removal facilities will make reference to the guidelines in <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	\checkmark
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	N/A – Not observed.

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
S7.6	-	Manholes (including newly constructed ones) will always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris being washed into the drainage system.	Whole Site	During construction	N/A – Not observed.
S7.6	-	Precautions will be taken when a rainstorm is imminent or forecasted, and actions to be taken during or after rainstorms are summarised in Appendix A2 of <i>ProPECC PN 1/94</i> . Particular attention will be paid to the control of silty surface runoff during storm events.	Whole Site	During construction	N/A – Not observed.
S7.6	-	All temporary and permanent drainage pipes and culverts provided to facilitate runoff discharge will be adequately designed for the controlled release of stormwater flows. All sediment traps will be regularly cleaned and maintained. The temporary diverted drainage will be reinstated to the original condition when the construction work has finished or the temporary diversion is no longer required.	Whole Site	During construction	N/A – Not observed.
S7.6	-	Vehicle and plant servicing areas, vehicle washing bays and lubrication bays will, as far as possible, be located within roofed areas. The drainage in these covered areas will be connected to foul sewers via a petrol interceptor.	Whole Site	During construction	N/A – Not observed.
S7.6	-	Oil leakage or spillage will be contained and cleaned up immediately. Waste oil will be collected and stored for recycling or disposal.	Whole Site	During construction	N/A – Not observed.
S7.6	-	Waste streams classifiable as chemical wastes will be properly stored, collected and treated.	Whole Site	During construction	\checkmark
S7.6	-	All fuel tanks and chemical storage areas will be provided with locks and be sited on paved areas.	Whole Site	During construction	\checkmark
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	\checkmark
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	\checkmark

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 stomwater 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	\checkmark
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 .	Manageme	nt	·		
S8.5	S6.3.1 & Table 6.1	<u>General</u> The Contractor shall apply for and obtain all the necessary waste disposal permits or licences are obtained prior to the commencement of the construction works.	Whole Site	During construction	\checkmark
S8.5	-	<u>Management of Waste Disposal</u> The construction contractor will open a billing account with the EPD. Every construction waste or public fill load to be transferred to the Government waste disposal facilities such as public fill reception facilities, sorting facilities, landfills will require a valid "chit" which contains the information of the account holder to facilitate waste transaction recording and billing to the waste producer.	Whole Site	During construction	√
S8.5	S6.2	A trip-ticket system will also be established to monitor the disposal of construction waste at landfill and to control fly-tipping. The trip-ticket system will be included as one of the contractual requirements and implemented by the contractor.	Whole Site	During construction	\checkmark

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	\checkmark
S8.5	S6.3	<u>Reduction of Construction Waste Generation</u> C&D material will be segregated on-site into public fill and construction waste and stored in different containers or skips to facilitate reuse of the public fill and proper disposal of the construction waste. Specific areas of the work site will be designated for such segregation and storage if immediate use is not practicable.	Whole Site	During construction	\checkmark
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	\checkmark
S8.5	S6	 Containers used for storage of chemical waste shall: Be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition, and securely closed; Have a capacity of less than 450 L unless the specifications have been approved by the EPD; and Display a label in English and Chinese in accordance with instructions prescribed in <i>Schedule 2</i> of the <i>Regulations</i>. 	Whole Site	During construction and operation	\checkmark
S8.5	S6	 Storage areas for chemical waste shall: Be clearly labelled and used solely for the storage of chemical waste; Be enclosed on at least 3 sides; Have an impermeable floor and bunding, of capacity to accommodate 110% of the volume of the largest container or 20% by volume of the chemical waste stored in that area, whichever is the greatest; Have adequate ventilation; Be covered to prevent rainfall entering (water collected within the bund must be tested and disposed of as chemical waste, if necessary); and Be arranged so that incompatible materials are appropriately separated. 	Whole Site	During construction and operation	

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Location	When to Implement the Measure	Status
S8.5	S6	A licensed contractor shall be employed to collect chemical waste for delivery to a licensed treatment facility.	Chemical Waste Treatment Centre at Tsing Yi	During construction and operation	N/A – Not observed.
S8.5		<u>General Refuse</u> General refuse will be stored in enclosed bins separately from construction and chemical wastes. The general refuse will be delivered to the transfer station, separately from construction and chemical wastes, on a daily basis to reduce odour, pest and litter impacts.	Whole site	During construction	\checkmark
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	\checkmark
S8.5	S6	<u>Staff Training</u> At the commencement of the construction works, training will be provided to workers on the concepts of site cleanliness and on appropriate waste management procedures, including waste reduction, reuse and recycling.	Whole site	Commence-ment of construction	\checkmark
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	\checkmark

Remark:

 $\sqrt{}$ 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

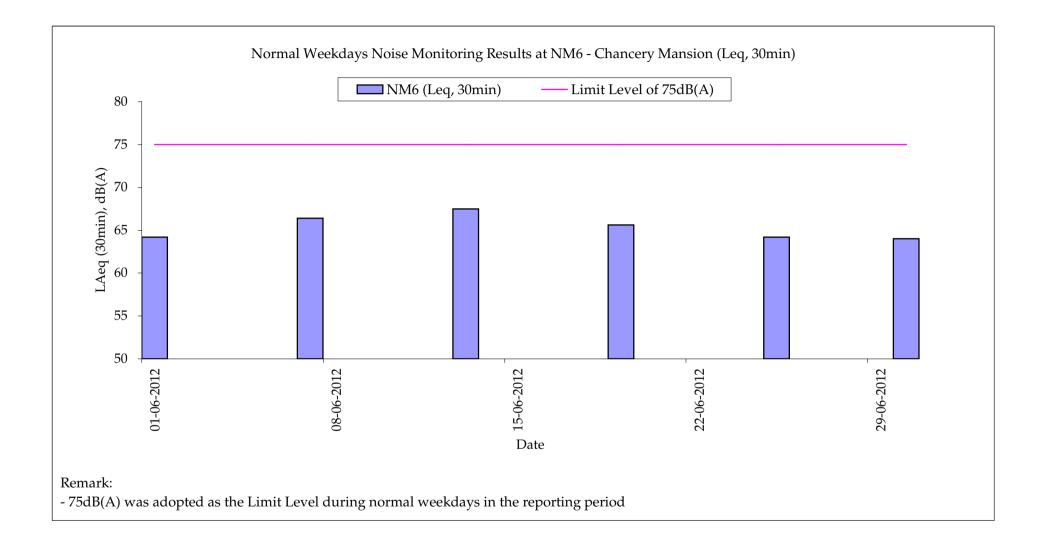
Daytime Noise Monitoring Results

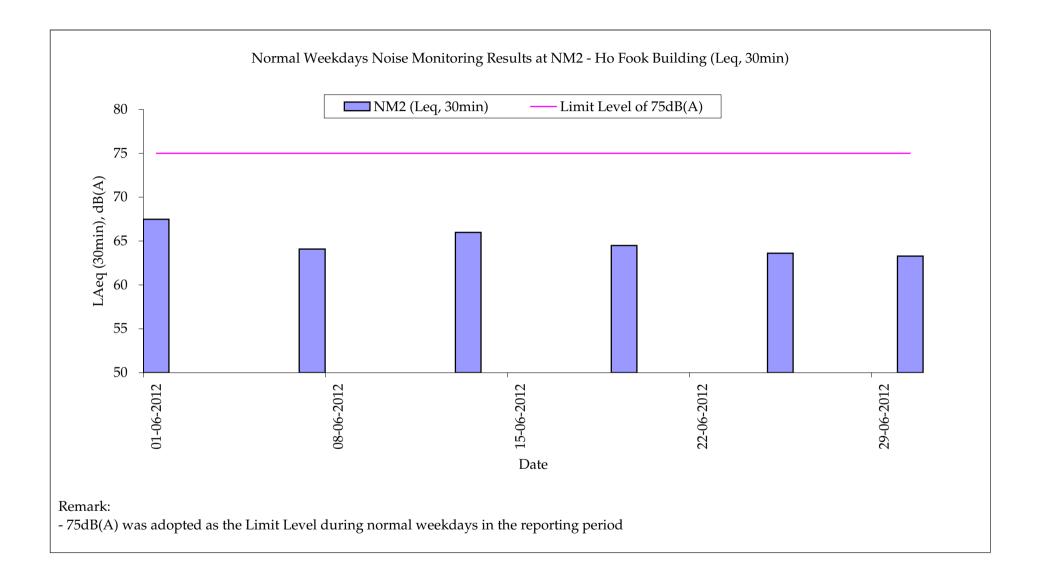
NM6 Chancery Mansion

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		(
1-Jun-12	11:20	11:50	Fine	64.2	65.3	63.1	Lifting (within the project site)	Traffic Noise	-	0.3	RION - NL52 (S/N 00710259)	RION - NC73 (S/N 10997142)
7-Jun-12	10:25	10:55	Sunny	66.4	67.5	63.2	Lifting, interior fitting (within the project site)	Traffic Noise	-	0.2	RION - NL52 (S/N 00710259)	RION - NC73 (S/N 10997142)
13-Jun-12	15:25	15:55	Trace rain	67.5	69.8	65.0	Breaker, lifting (within the project site)	Traffic Noise	-	0.3	RION - NL52 (S/N 00710259)	RION - NC73 (S/N 10997142)
19-Jun-12	10:30	11:00	Cloudy	65.6	67.2	63.4	Lifting (within the project site)	Traffic Noise	-	0.3	RION - NL52 (S/N 00710259)	RION - NC73 (S/N 10997142)
25-Jun-12	10:45	11:15	Cloudy	64.2	65.6	63.0	Lifting (within the project site)	Traffic Noise	-	0.5	RION - NL52 (S/N 00710259)	RION - NC73 (S/N 10997142)
30-Jun-12	11:30	12:00	Cloudy	64.0	65.3	63.0	-	Traffic Noise	-	0.5	RION - NL52 (S/N 00710259)	RION - NC73 (S/N 10997142)
			Min.	64.0								
			Max.	67.5								

NM2 Ho Fook Building

				Noise level (dB(A)), 30 min			Major Construction	Other Noise		Wind Speed	Noise Meter	Calibrator
Date	Start Time	End Time	Weather	Leq	L10	L90	Noise Source(s) Observed	Source(s) Observed	Remarks	(m/s)	Model / ID	Model / ID
1-Jun-12	10:42	11:12	Fine	67.5	69.2	65.1	Lifting (within the project site)	Traffic noise	-	0.2	RION- NL52 (S/N 00710259)	RION - NC73 (S/N 10997142)
7-Jun-12	9:48	10:18	Sunny	64.1	65.9	61.9	Lifting, interior fitting (within the project site)	Traffic Noise	-	0.2	RION- NL52 (S/N 00710259)	RION - NC73 (S/N 10997142)
13-Jun-12	13:00	13:30	Trace rain	66.0	67.7	63.5	Breaker, lifting (within the project site)	Traffic Noise	-	0.3	RION- NL52 (S/N 00710259)	RION - NC73 (S/N 10997142)
19-Jun-12	11:08	11:38	Cloudy	64.5	66.4	61.9	Lifting (within the project site)	Traffic Noise	-	0.2	RION- NL52 (S/N 00710259)	RION - NC73 (S/N 10997142)
25-Jun-12	10:05	10:35	Cloudy	63.6	65.3	61.8	Lifting (within the project site)	Traffic Noise	-	0.5	RION- NL52 (S/N 00710259)	RION - NC73 (S/N 10997142)
30-Jun-12	10:50	11:20	Cloudy	63.3	64.5	61.8	-	Traffic Noise	-	0.2	RION- NL52 (S/N 00710259)	RION - NC73 (S/N 10997142)
			Min.	63.3						·		
			Max.	67.5								





Annex I

Construction Programme for the Project

ID SENERAL 000110	Description	(Cal Days)				
000110				1 I I I I I I I		
000110	Award of Management Contract	0	Award of Management Contract			
000130	Contract Commencement Date	0	Contract Commencement Date			
000510	Prepare Prelim Method Statement - Subm/Approval	53	Prepare Prelim Method Sta	ement - Subm/Approval		
000600	PRECONSTRUCTION PERIOD	592*				
000700	MANAGEMENT CONTRACT PERIOD	1,096*			*****	
008000	POST CONSTRUCTION PERIOD MANAGEMENT SERVICES	184				
(ISTING	BUILDING					
HASE 1						
080003	Preparation Work Before Construction	40	Preparation Wor	k Before Construction		
080005	Construction Work Commencement (24 Oct 2011)	0	Construction W	ork Commencement (24 C	st 2011)	
080010	Block 8 - ABLUTIONS BLOCK	631*				Block 8 - ABLUTIONS BLOCK
160010	Block 16 - WORKSHOP & LAUNDRY (Demolition Works)	109*			LAUNDRY (Demolition Works)	
180010	Blk 18/14 annex/Bldg F/G/H/ (Demo Works)	50*	Bik 18/1	4 annex/Bldg F/G/H/ (Dec		
170010	Block 17 - F HALL (Advance / Enabling Works)	355*				(Advance / Enabling Works)
140010	Block 14 - D HALL (Advance / Enabling Works)	452*				Block 14 - D HALL (Advance / Enabling Works)
120010	Block 12 - B HALL	354*				Blpck 12 - B HALL
010005	Block 1 - POLICE HEADQUARTERS	453*				Block 1 - POLICE HEADQUARTERS
110010	Block 11 - A HALL	326*				Block 11 - A HALL
HASE 2						
030005	Block 3 - BARRACKS BLOCK	416*				Block 3 - BARRACKS BLOCK
060005	Block 6 - DORMITORY BLOCK C	310*				Block 6 - DORMITORY BLOCK C
070005	Block 7 - DORMITORY BLOCK D	257*				Block 7 - DORMITORY BLOCK D
020005	Block 2 - ARMOURY & STORE	268*				Block 2 - ARMOURY & STORE
HASE 3						
150010	Block 15 - E HALL	357*				
090005	Block 9 - CENTRAL MAGISTRACY	319*				
100010	Block 10 - SUPERITENDENT HOUSE	352* 352*				
130010	Block 13 - C HALL	352"				Biock 1/3 - C HALL
HASE 4	Plack 44 D HALL (Dectorretion Merlin)	00.4*				
140030	Block 14 - D HALL (Restoration Works)	264*				Block 14 - DHALL (Restoration Works) Block 4 - DORMITORY BLOCK A & B
040005 190005	Block 4 - DORMITORY BLOCK A & B Block 19 - BAUHINIA HOUSE	273* 168*				Block 19 - BAUHINIA HOUSE
170030	Block 17 - F HALL (Restoration Works)	198*				Block 17 - F HALL (Restoration Works)
	Block 5 (Demolition Only)	114*				Block 5 (Demolition Only)
ther Worl		114				
253110	Roadworks	449*				Rdadworks
251110	U/G Utilities / Drainage Works w/in CPS compound	329				U/G Utilities / Drainage Works w/in CPS compound
240010	Revetment of Walls (Tentative Period)	370				Revetment of Walls (Tentative Period)
255110	Ext Landscape incl trees/bench/green wall	135				Ext Landscape incl trees/bench/green wall
TATUTO	Y INSPECTION / HANDOVER					
309010	Statutory Inspections / Handover	124*				Statutory Inspections / Handover
EW CON	STRUCTION					
ew Buildi						
AW0010	NEW BUILDING - ARBUTHNOT WING	683*				
OB0010	NEW BUILDING - OLD BAILEY WING	723*				
OB0090	OBW - SPECIALIST FIT OUT WORKS	243*				OBW - SPECIALIST FIT OUT WORKS
AW0090	AW - SPECIALIST FIT OUT WORKS	145*				AW - SPECIALIST FIT OUT WORKS
	oom (at Lower Courtyard)					
200018	Lower courtyard basement	466*				Lower courtyard basement
ervice Tu						
220010	Proposed Service Trench	288*				Proposed Service Trench
ourtyard						
210010	Proposed courtyard passage incl work in Blk 3	381*				Proposed courtyard passage incl work in Blk 3
ew Footb						
230010	Proposed Footbridge (Tentative)	825*				Proposed Footbridge (Tentative)
		-			• • • • • • • • • • • • • • • • • • •	
Date	07JUL10 31DEC14		Early Bar TP30			Sheet 1 of 1 GCL / P / J3416 /SUMCP01 (rev 2) Date Revision Checked April 05SEP11
h Date Date	31DEC14 07JUL10		Progress Bar		POLICE STATION	055EP11 EPD submission 050EP1 30JUN12 Progress markup as of 30Jun12
Date	07SEP11 09:41				AND REVITALIZATION	
						Gammon
				CONSTRUCT	ION PROGRAMME	

Start Date	07JUL1	Early Bar	TP30 S	Sheet 1 of 1	_	
Finish Date	31DEC1		CENTRAL POLICE STATION			
Data Date	07JUL1	Progress Bar				
Run Date	07SEP11 09:4		CONSERVATION AND REVITALIZATION			
			(MANAGEMENT CONTRACT)			Com
			CONSTRUCTION PROGRAMME			
	?Primavera Systems, Inc.					

Annex J

Tree Inspection Reports



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

2 6 JUN 2012

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

25th June 2012 Our Ref. : YW/TP/GAMMON/2012/6/1

Gammon Construction Limited 28/F Devon House TaiKoo Place 979 King's Road Hong Kong Attn : Mr. Cliff C.H. LEUNG Tel. 2516 8823 Fax.2516 6260

Dear Sir,

Summary of Monthly Inspection Report for the Six Existing Trees <u>at Central Police Station Compound for May 2012</u> (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	7 th June 2012	Good	1.To trim the lower branches.
Tree-6	Aleurites moluccana 石栗	7 th June 2012	Fair	1.Overgrown branches/leaves had been pruned on 1.6.2012.
Tree-7	Aleurites moluccana 石栗	7 th June 2012	Fair	1.Overgrown branches/leaves had been pruned on 1.6.2012.
Tree-8	<i>Plumeria rubra</i> 紅雞蛋花	7 th June 2012	Fair	N.F.A.
Tree-9	Araucaria cunninghamia 花旗杉	7 th June 2012	Fair	 The tree emits transparent juice on a cavity. Close observation is required in the coming months.
Tree-11	<i>Dracaena marginata</i> 馬尾鐵	7 th June 2012	Fair	1.To remove the dead branches before typhoon seasons



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

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

I should be much grateful if you could endorse the attached Invoice (No.1025) and fax it to my Office at 2482 4667. Thank you.

Yours faithfully

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



(WONG Pak Hay) Horticulture Manager

FORM 1: TREE GROUP INSPECTION FORM 表格 1: 樹群檢査表格

General Informa	ation 基本	資料										
Company 公司: File Ref. 檔案編			Constructio MMON/2012			Name of Tree Inspection officer 巡查人員姓名 Name of Endorsement Officer 覆核人員姓名						
Date of Inspection			une 7, 2012		1441	ne of Endorseine		1212/		wondrakinay		
Project/Contract N	No.合約/工	程編號	: J34	16/400.4/D00025	5							
Location Inform	ation 位置	資料										
Location 地點:	Central I	Police Sta	ation Compo	und.		Nearby Utility Po	st No.	就近公用	設施編號:			
Location Types 地點類	[別:		Roadside	路旁			Γ	Community H	all / Centre 前土	區會堂 / 中心		
Address :			X Open sp					Roadside Pla				
(multiple answers allow	wed)		Exhibition	n Centre 展覽中心				 Rain shelter / p	avilion 避雨弓	多 / 涼亭		
可選多於一項)			View Poin	nt 觀景台				Sitting out area	4 休憩處			
			Walking /	nature trail 行山徑	図/自	然徑						
			Others (p)	lease specify)其他 ((品)	<i>9</i> 7):						
Comoval Tuos Inf	Commetion	++-+++		1 200011-1	10010-23			* Dalata an a		老相天人流的加速		
General Tree Inf			」不質料 x. number	Range of tree		Overall health	Ove			青把不合適的刪除 rks (Any special tree		
or minority tree spec		of trees		height (m)		condition	122010000	ctural	condition, e	.g. dying/dead,		
significant size			nt species or	該樹種高度範	肁	整體健康狀況	con	dition		problem and structural		
在群組內的主要樹		as a %	of tree			(good, fair,		豊結構狀況	· · · · · ·	l soil condition		
胸徑或高度或樹冠	範圍較大	group				poor		od, fair,	其他評語			
的樹種 (Note 2)			直在群組內 計比/數目*			好,良,差)	<i>poo</i> 差)	r好,良,		列如:凋謝/枯樹/病蟲害 題;及泥土狀况)		
Mangifera indica Aleurites moluc	芒果 cana	17%,	1 No.	16M		GOOD	GO	OD	To trim the	e lower branches.		
	石栗	32%	2 Nos.	10-13M		FAIR	FAI	R	N.F.A.			
	雞蛋花	17%	1 No.	7 M		FAIR	FAI	R	N.F.A.			
Araucaria cunninghamia	花旗杉	17%	1 No.	13M		FAIR	FAI	R	Transparer cavity.	nt juice discovered on a		
Dracaena marginata	馬尾鐵	17%	1 No.	8M		FAIR	FAI	R	To remove	the dead branches.		
Target 目標												
TARGET (people	or property	potentia	llv affected by	tree/branch failu	ure)	目標 (因樹木倒場)	或枝化	案斷裂而受影響	響的人或財產			
Does target exist?				□ No 否						<u> </u>		
Can target be mov					丕							
Can the use of site					⊐ Yes 是	No 否						
Frequency of use of			The second s		TCS 元							
Occasional use					Fre	equent use 經常使	田	Constan	t use 恆常使	i III		
									C GOO MANDA	713		
Identification of					Tree	e Risk Assessm	ent					
識別下述樹木,以便				對木風險許估				N L C				
Trees falling und								Number of trees 樹木數量		ction or detailed tree risk assessment		
樹木屬於以下任何-	一項或多於	一項類別	列					T ten to constants	緩減措施可	或進行詳細樹木風險評估		
1.11.4 (model) in the second of the Second o	C			ral or health pr	obler	ns		NII				
			表問題的樹木			10 - 50	2		_			
						structure and hav	ving	NII				
				conditions with								
AC 8 1 5				場風險的樹木((Note	1)			-			
5.6	2		s or health p 的樹木 <i>(Note</i>					NII				
	(33) 1166 - 1169 U.S. 1535 (11552)	151008 1150-01A	24/28/29/20 At 20	conditions with	h fail	ure potential		NII				
0.22]樹木 (Note 1)		52						
Attached Information	n 附夾資料											
Site plan 場	地平面圖	Х	Y Photo reco	ord 相片紀錄		Others 其他 (p	lease	specify 請說明): Month	nly Inspection Reports		
				11						INT MAN		
Signature of Tree Ins	pection Off	icer :	/	No	1					AND		
Signature of Endorse	ement Office	er.		1 1000	5	*						
- 278 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999				0						E		
Name of Contractor			Yan W	ing (HK) Env	viron	ment Managem	ent l	_td.		DUIN NYL		

Date:

Note 1: If remedial action (such as pruning) undertaken cannot mitigate the potential risk of tree or branch failure, detailed tree risk assessment (using Form 2) should be carried out.

備註 1: 若風險緩減措施(如枝幹修剪)仍未能解決倒塌或枝條斷裂的潛在風險,應爲該樹進行詳細的樹木風險評估(表格 2)。

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

25-6-2012

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 <u>at Central Police Station Compound</u> (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	7 th June 2012	Last Inspection Date	21 st May 2012

III. COMMENTS :

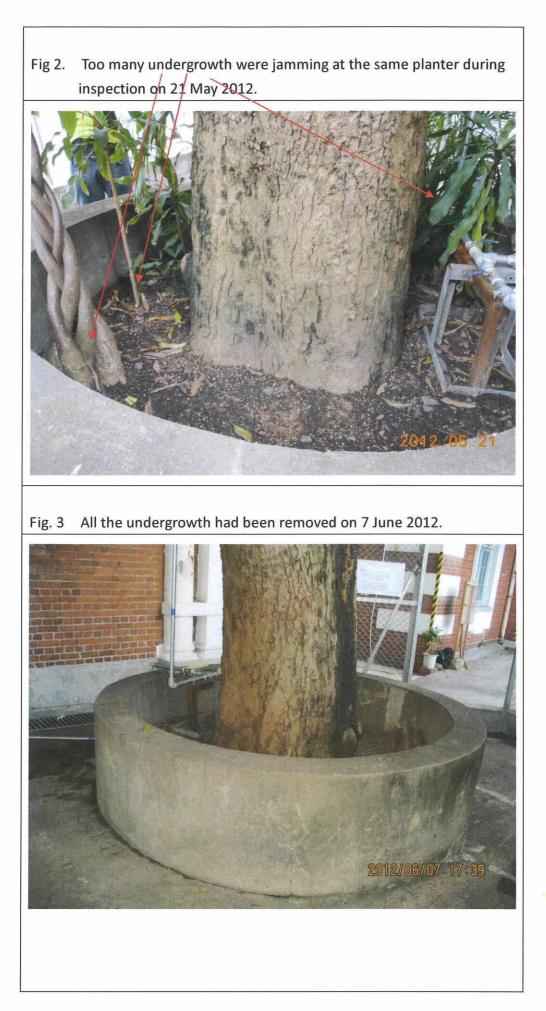
- 1. Overall health condition of the tree is good.
- 2. The undergrowth had been removed from the planter.
- 3. Two trial pits have been reinstated inside the cordon zone prior to inspection.
- 4. Some lower branches and leaves are too close to the nearby buildings.
- 5. The site appears clean and tidy.

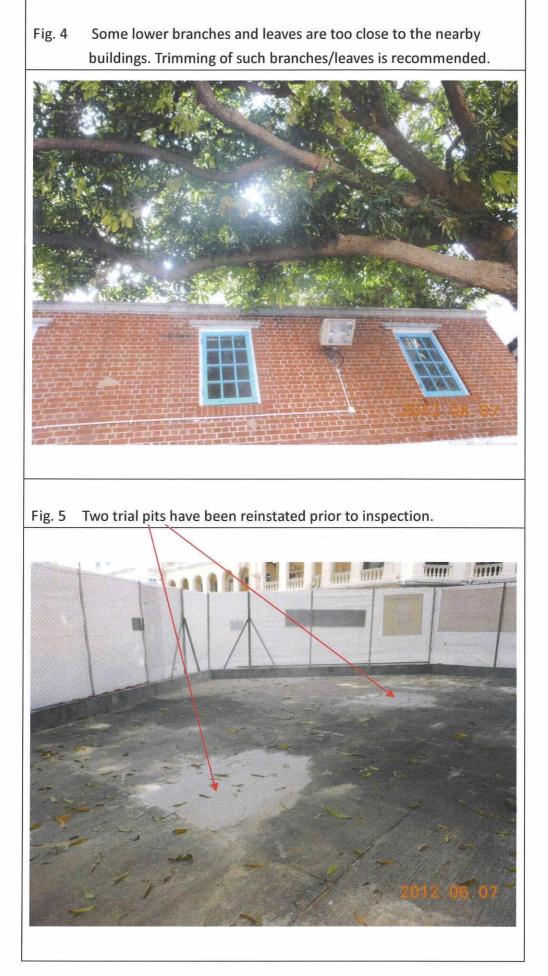
IV. RECOMMENDATIONS :

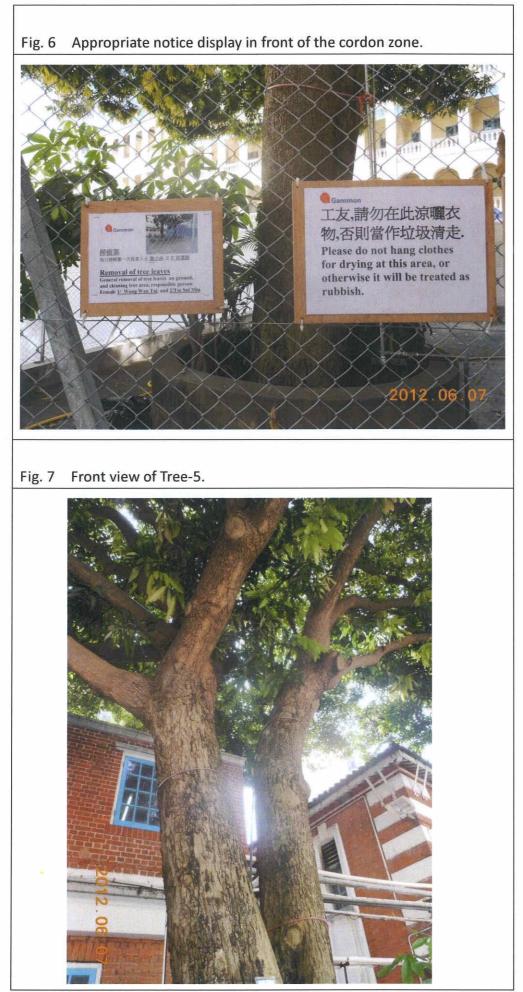
1. To trim the lower branches / leaves which are too close to the buildings.

V. PHOTO RECORD :











Signature of Inspection Officer : (Mr. HO Kun-chung, ISA CA–HK0452A)

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

Name of Contractor :

Yan Wing (HK) Environment Management Ltd.



Dated this :

25th June 2012

Inspection Report for the 6 Existing Trees at Central Police Station Compound (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 Good/Fair/Poor	Fair	
Date of Inspection	7 th June 2012	Last Inspection Date	21 st May 2012	

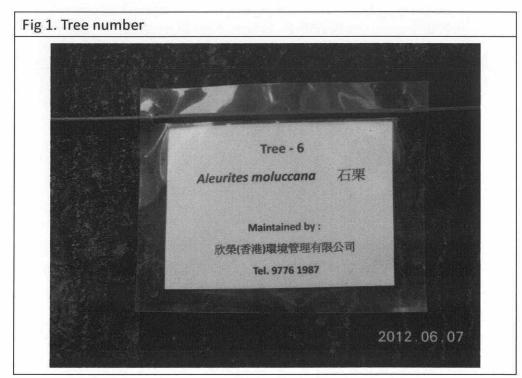
III. COMMENTS :

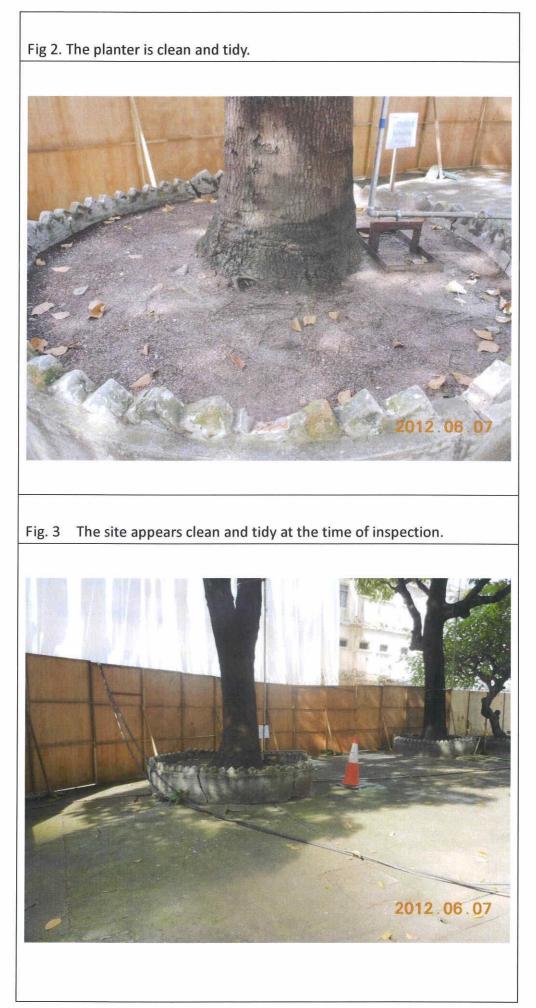
- 1. Overall health condition of the tree is fair.
- 2. The planter is clean and tidy.
- 3. Construction works are in progress outside the cordon zone.
- 4. The site appears clean and tidy.
- 5. Overgrown branches / leaves had been pruned on 1^{st} June 2012.

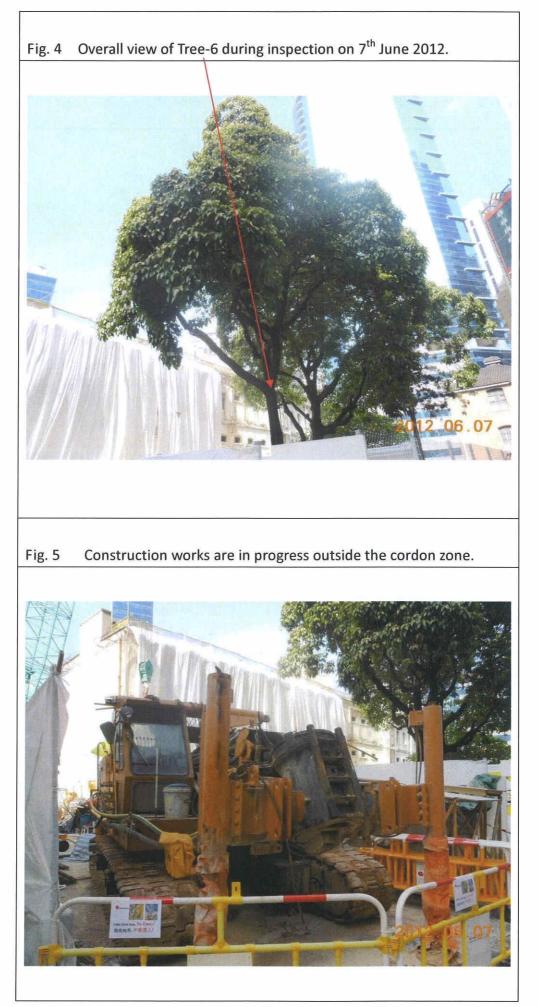
IV. RECOMMENDATIONS :

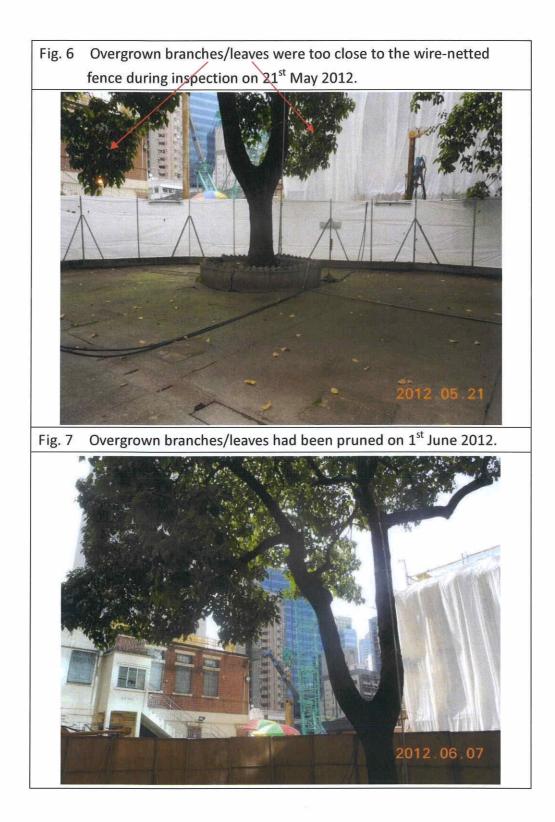
1. No further action is required.

V. PHOTO RECORD :









Signature of Inspection Officer : (Mr. HO Kun-chung, ISA CA-HK0452A)

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

Name of Contractor :

Dated this :

Yan Wing (HK) Environment Management Ltd.



25th June 2012

Inspection Report for the 6 Existing Trees <u>at Central Police Station Compound</u> (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 Good/Fair/Poor	Fair
Date of Inspection	7 th June 2012	Last Inspection Date	21 st May 2012

III. COMMENTS :

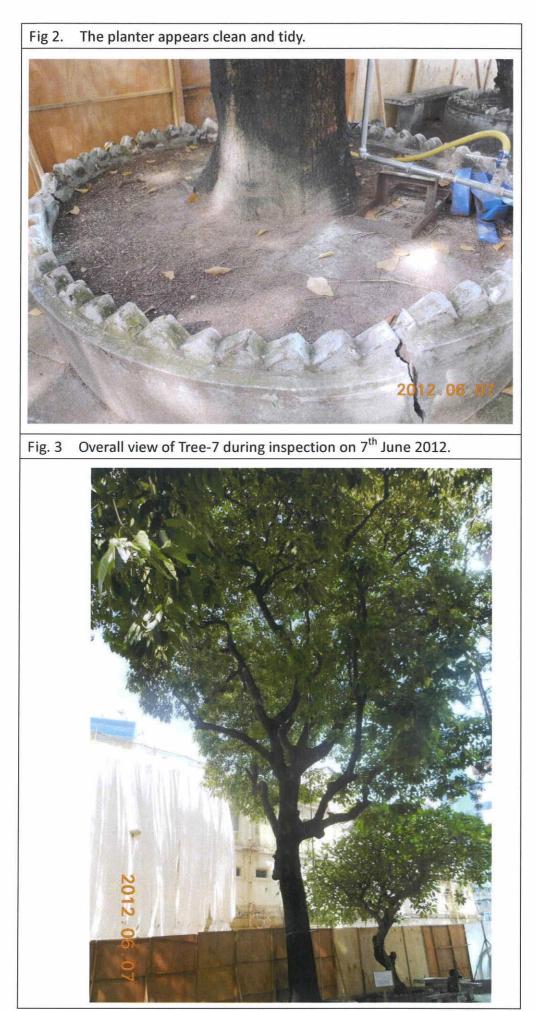
- 1. Overall health condition of the tree is fair.
- 2. Planter is clean and tidy.
- 3. The site appears clean and tidy.
- 4. Overgrown branches /leaves had been pruned on 1st June 2012.

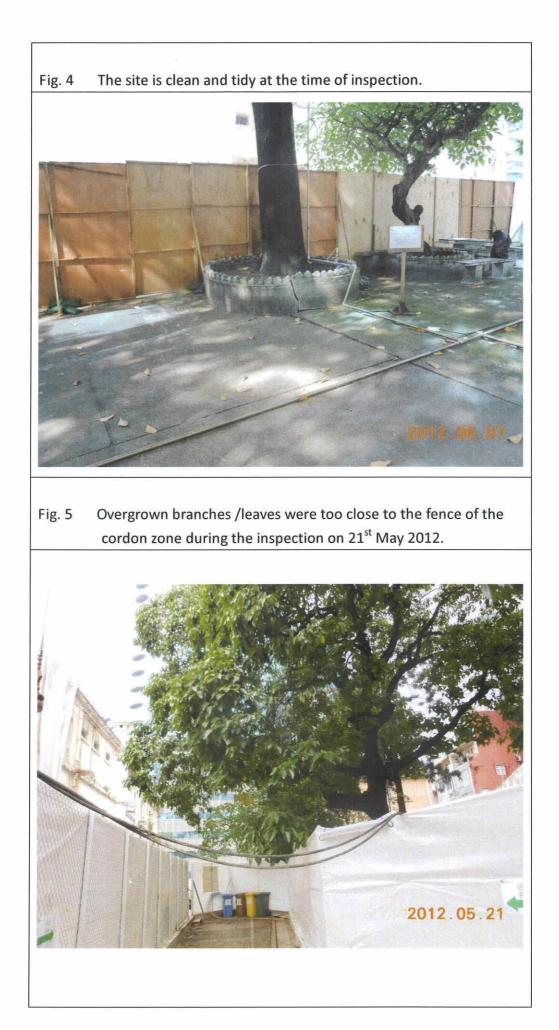
IV. RECOMMENDATIONS :

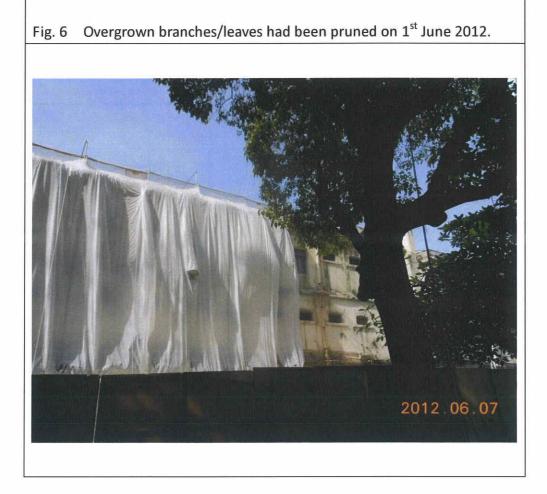
1. No further action is required.

V. PHOTO RECORD :









Signature of Inspection Officer : (Mr. HO Kun-chung, ISA CA-HK0452A)

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

Name of Contractor :

Dated this :

Yan Wing (HK) Environment Management Ltd.



25th June 2012

Inspection Report for the 6 Existing Trees <u>at Central Police Station Compound</u> (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	7 th June 2012	Last Inspection Date	21 st May 2012

III. COMMENTS :

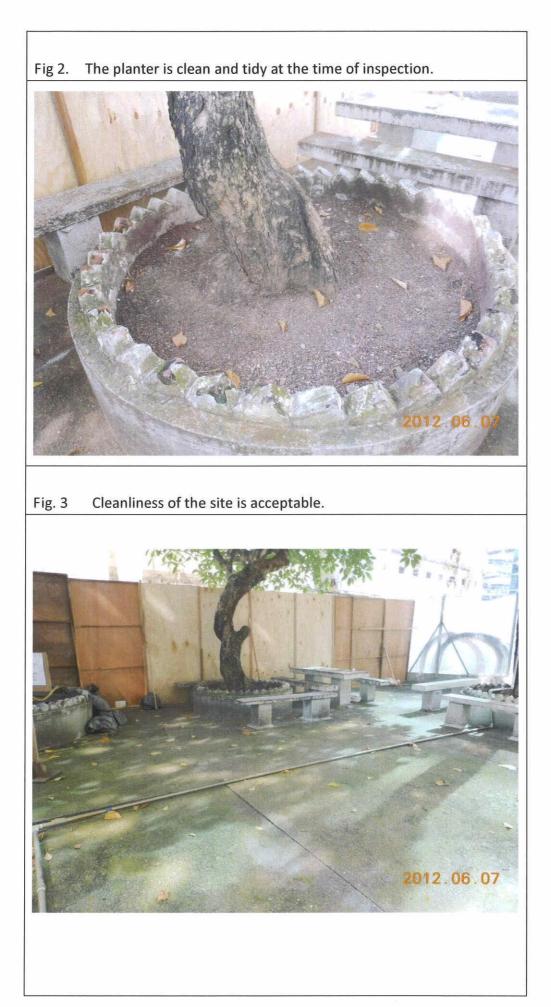
- 1. Overall health condition of the tree is fair.
- 2. The planter is clean and tidy.
- 3. Cleanliness of the site is acceptable.
- 4. Area outside the cordon zone appears clean and tidy.
- 5. The tree is in blossom at the time of inspection.

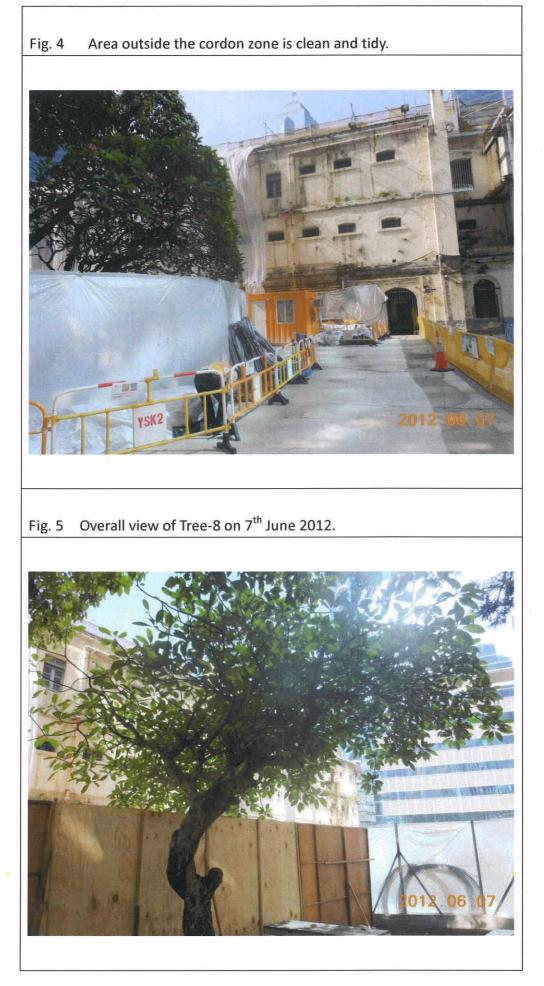
IV. RECOMMENDATIONS :

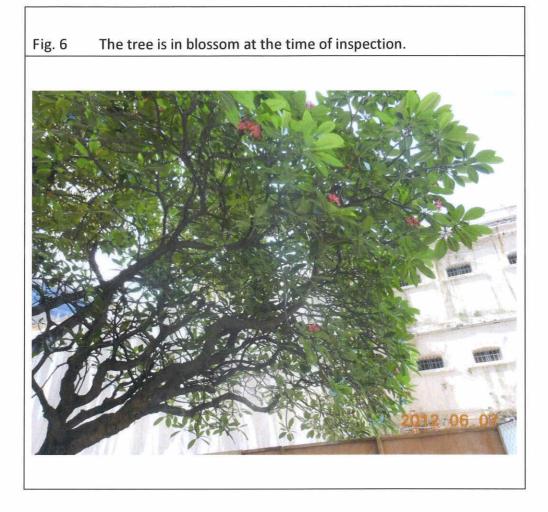
1. No further action is required.

V. PHOTO RECORD :









Signature of Inspection Officer : (Mr. HO Kun-chung, ISA CA-HK0452A)

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

Name of Contractor :

Yan Wing (HK) Environment Management Ltd.

25th June 2012



Dated this :

Inspection Report for the 6 Existing Trees <u>at Central Police Station Compound</u> (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	7 th June 2012	Last Inspection Date	21 st May 2012

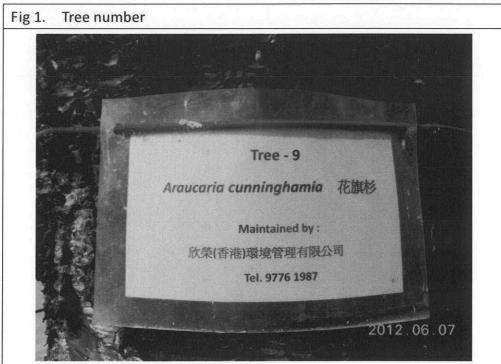
III. COMMENTS:

- 1. Overall health condition of the tree is fair.
- 2. Cleanliness of the planter is acceptable at the time of inspection.
- 3. The site inside the cordon zone is clean and tidy.
- 4. The tree emits transparent juice on a cavity, but no signs of pest or disease have been detected.
- 5. Construction works are in progress outside the cordon zone.

IV. RECOMMENDATIONS :

1. Close observation on the above-mentioned cavity is required in the coming months.

V. PHOTO RECORD :



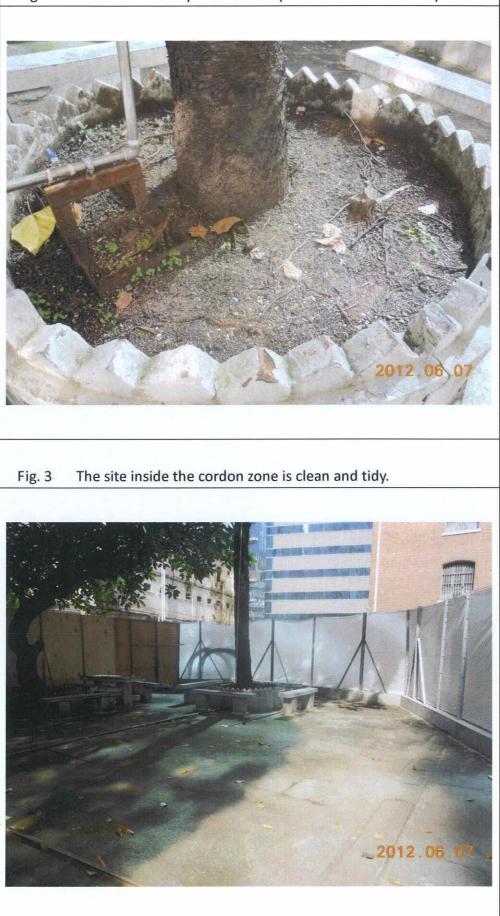


Fig 2. Cleanliness of the planter is acceptable at the time of inspection.

Fig. 4 The tree emits transparent juice on a small cavity, but no signs of pest or disease have been detected. Close observation is required in the coming months.

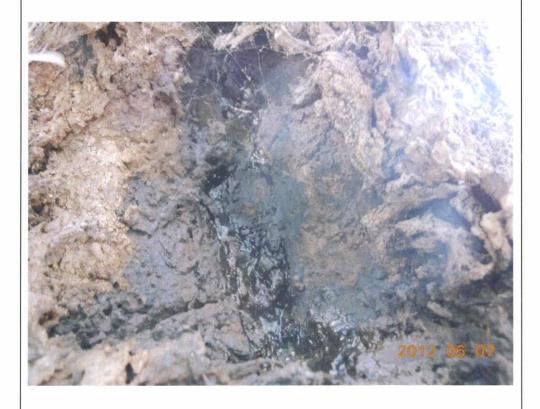
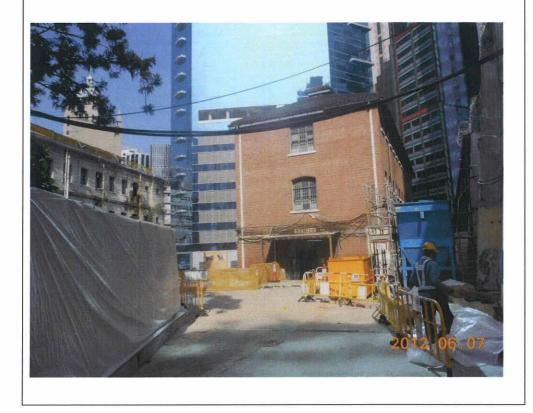
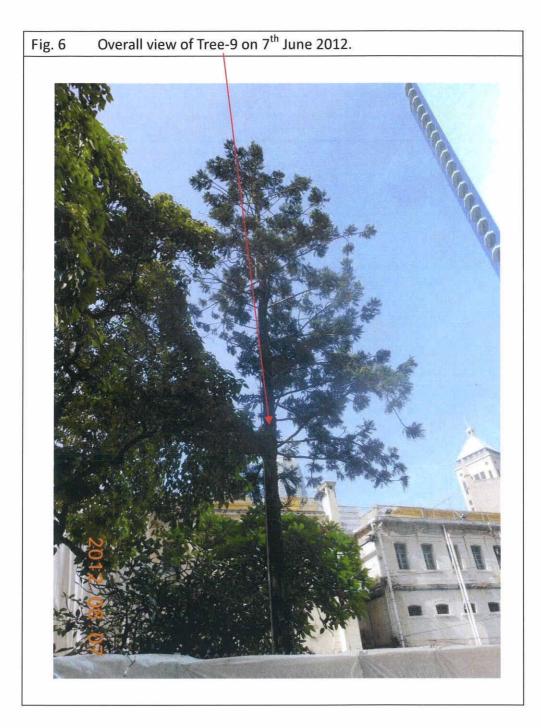


Fig. 5 Construction works are in progress outside the cordon zone.





Signature of Inspection Officer : (Mr. HO Kun-chung, ISA CA-HK0452A)

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

Name of Contractor :

Yan Wing (HK) Environment Management Ltd.



Dated this :

25th June 2012

Inspection Report for the 6 Existing Trees <u>at Central Police Station Compound</u> (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	7 th June 2012	Last Inspection Date	21 st May 2012

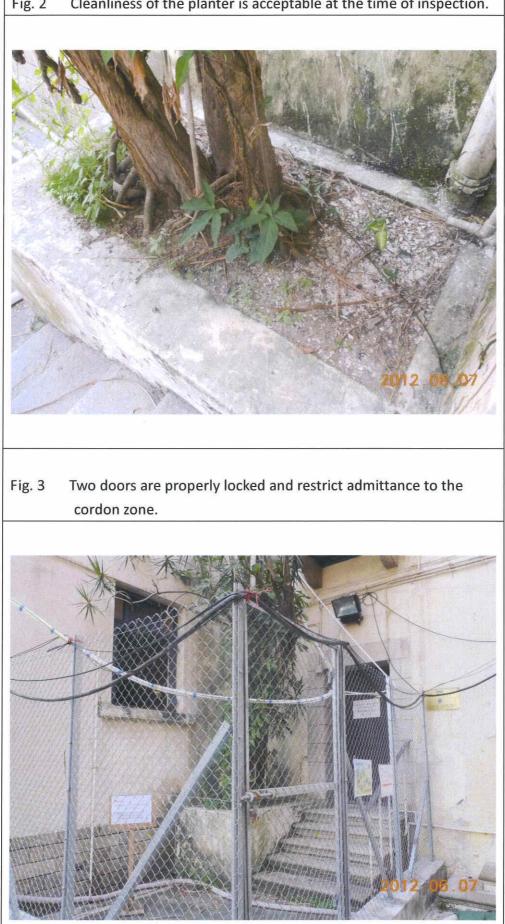
III. COMMENTS :

- 1. Overall health condition of the tree is fair.
- 2. Cleanliness of the planter is acceptable.
- 3. Two doors are properly locked and restrict admittance to the cordon zone.
- 4. Appropriate poster displays in front of the fence.
- 5. Some dead branches appear on the tree.

IV. RECOMMENDATIONS :

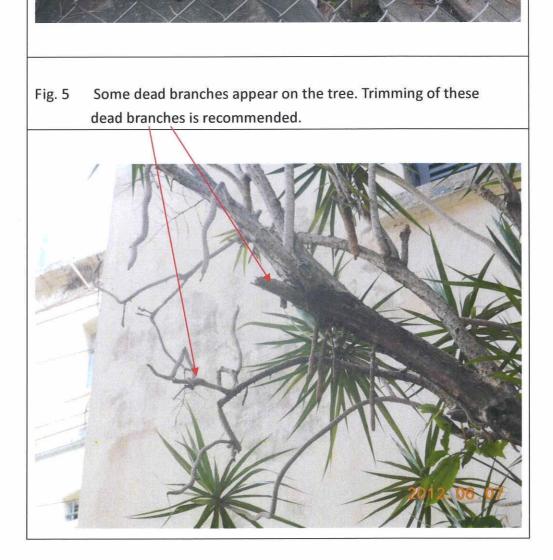
- 1. To remove the dead branches before typhoon seasons.
- V. PHOTO RECORD :

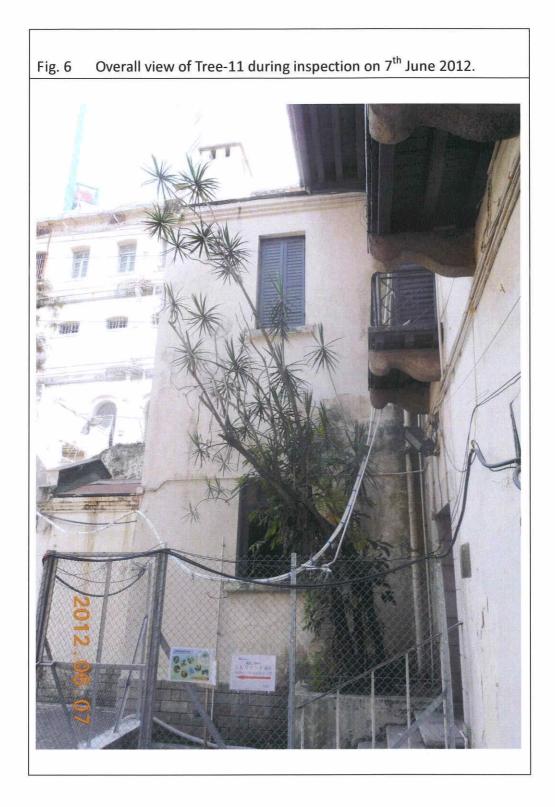




Cleanliness of the planter is acceptable at the time of inspection. Fig. 2







Signature of Inspection Officer : (Mr. HO Kun-chung, ISA CA-HK0452A)

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

Name of Contractor :

Dated this :

Yan Wing (HK) Environment Management Ltd. 25th June 2012



Annex K

Environmental Complaint, Environmental Summon and Prosecution 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
Overall Total	6	0

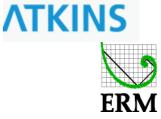
Annex K Cumulative Complaint and Summons/Prosecutions Log





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

Central Police Station Conservation and Revitalisation Project



COMPLAINT INVESTIGATION REPORT

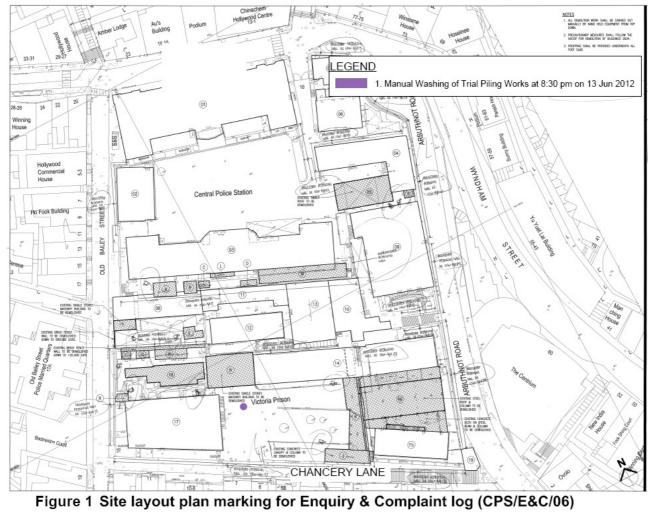
Basic Information of Complaint

Log Number:	2012/06/001
Date of Complaint Received	14 June 2012
Location of Complaint	Project Site
Nature of Complaint	Noise nuisance
Complaint Received by	Environmental Protection Department (EPD), Mr Tang
Complainant	A neighborhood resident

Details of Complaint

EPD has received a complaint from a neighbourhood resident of Central Police Station on the noise nuisance came from Chancery Lane at 8:30pm on 13 June 2012.

1. According to the works summary provided by the Contractor, no major construction activities were carried out but only manual washing of pile tube was conducted near block 17 at around 8:30pm on 13 June 2012. The location of the work area is presented in the Figure 1.



2. In view of the location of the information of the complaint and the location of the works taken, manual washing of pipe tube could be the possible source of noise nuisance. Follow-up action is recommended.

Mitigation Measures and Follow-Up Actions Recommended to Contractor

The Contractor should follow all relevant noise requirements specified in EIA, EM&A Manual, EMP, Method Statements, General and Particular Specifications of this Project. The Contractor has been reminded to emphasize the legal requirement of working in the restricted hours to site management team and workers.

The following measures have been implemented by the Contractor to further minimize the noise nuisance to the adjacent users after receiving the complaint immediately:

- Reminder letters concerning the legal requirement of working in the restricted hours, period of restricted hours, application of Construction Noise Permit (CNP) and in-house rules have been issued to each work package contractor on 18 June 2012.
- An internal meeting with manager of Gammon, the Engineer and site agent has been conducted on 18 June 2012 to
 emphasis the application of CNP, period of restricted hours and in-house rules for working in the restricted hours.
- Besides, Tool Box Talk about good site practices, work during restricted hours and Permit to Work System will be conducted for frontline workers and operation supervisor team on 20 June 2012.

Date of File Closed : 20 June 2012

Approved by:

ET Leader

IEC

JCCPS's Representative

(Name: C. W. Sham)

Date: Jo Vun 2012

Rocco Design Architect's Representative

(Name: KUNG) Date: 20 Jun 2012

(Name: Winnie Ko) Date: 20 June 2012

Gammon's Representative

(Name:

Date: 2012 - 06 - 20

(Name: Sharifah Or)

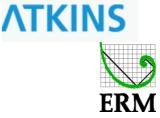
Date: 20 June 2012





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

Central Police Station Conservation and Revitalisation Project



COMPLAINT INVESTIGATION REPORT

Basic Information of Complaint

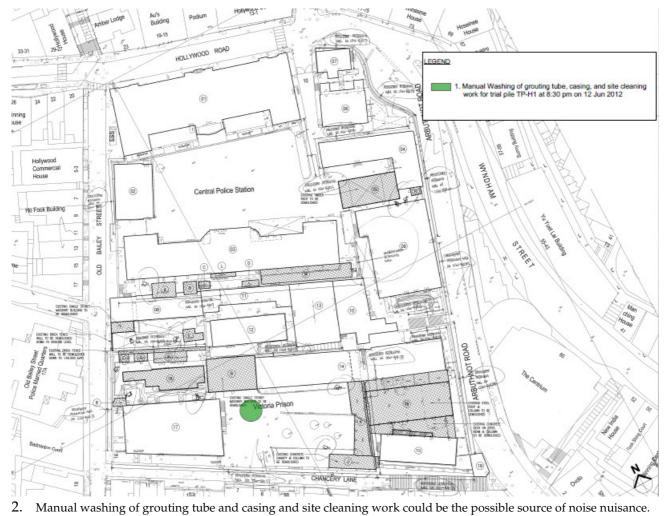
Log Number:	2012/06/002
Date of Complaint Received	28 June 2012
Location of Complaint	Project Site
Nature of Complaint	Noise nuisance
Complaint Received by	Central Police Station Website, Enquiry System
Complainant	

Details of Complaint

The Enquiry System of Central Police Station Website has recorded a complaint on the noise nuisance generated from the Project Site at 8:30pm on 12 June 2012. The complaint was received by Gammon Construction Limited on 28 June 2012.

Investigation Report

1. According to the information provided by the Contractor, no major construction activities were carried out, but only manual washing of grouting tube and casing and site cleaning work were conducted near Block 17 at around 8:30pm on 12 June 2012. The location of the work area is presented in the Figure 1.



Follow-up action is recommended.

Mitigation Measures and Follow-Up Actions Recommended to Contractor

The Contractor should follow all relevant noise requirements specified in EIA, EM&A Manual, EMP, Method Statements, General and Particular Specifications of this Project. The Contractor has been reminded to emphasize the legal requirement of working in the restricted hours to site management team and workers.

A similar complaint was received on 14 June 2012 by EPD about noise nuisance came from project site near Chancery Lane at 8:30pm on 13 June 2012, which is one day after receiving the complaint on CPS website. The following measures have been implemented by the Contractor to further minimize the noise nuisance to the adjacent users after receiving the complaint dated 14 June 2012:

- Operation team (e.g. site agent, sub-agent) has conducted site inspection at 6:00 pm since 14 June 2012 to ensure all construction works cease and to switch off the operating PME (e.g. ventilation fan) if no valid CNP was granted by the EPD;
- Reminder letters concerning the legal requirement of working in the restricted hours, period of restricted hours, application of Construction Noise Permit (CNP) and in-house rules have been issued to each work package contractor on 18 June 2012;
- Tool Box Talk about good site practices, work during restricted hours and Permit to Work System has been conducted for frontline workers and operation supervisor team on 20 June 2012;
- An internal meeting with manager of Gammon, the Engineer and site agent has been conducted to emphasize the application of CNP, period of restricted hours and in-house rules for working in the restricted hours on 18 June 2012;
- Electricity supply to the construction site has been automatically switched off at 6:50 pm besides the supply for the office and emergency lighting since 25 June 2012.

Date of File Closed : 09 July 2012

Approved by:

ET Leader

IEC

ICCPS's Representative

(Name: (CENNETH LEE) Date: 16/1/2012

Rocco Design Architect's Representative

(Name: CHARVES Date:

(Name: Winnie Ko) Date: 9 July 2012

Gammon's Representative

(Name: Sharifah Or) Date: 10 July 2012

(Name: Date:

3

Annex L

Records of Vibration Monitoring for Demolition Works



Demolition Works Central Police Station Compound at No. 10, Hollywood Road Record of Vibration Monitoring

Record of

Vibration Monitoring for

Demolition Works at

Central Police Station Compound at

No. 10, Hollywood Road

Report no.10

(21 May 2012 ~ 2 June 2012)





YSK2 ENGINEERING CO. LTD. 日昇基建工程有限公司

Demolition Works Central Police Station Compound at No. 10, Hollywood Road Record of Vibration Monitoring

Stage: Initial Stage (Baseline) for stage 1

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
23 Dec 2011	11:05	VM1	0.51	5	
23 Dec 2011	14:18	VM4	0.25	5	
23 Dec 2011	14:27	VM5	0.63	5	
23 Dec 2011	13:30	VM6	0.13	5	No demolition
23 Dec 2011	14:40	VM7	0.13	5	activity
23 Dec 2011	14:06	VM8	0.13	5	
23 Dec 2011	13:21	VM9	0.13	5	
23 Dec 2011	13:41	VM10	0.13	5	

Stage: Initial Stage (Baseline) for stage 2

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
24 February 2012	17:41	VM1	0.25	5	
24 February 2012	17:17	VM3	0.25	5	
24 February 2012	17:50	VM5	0.25	5	
24 February 2012	17:53	VM6	0.32	5	
24 February 2012	17:57	VM8	0.35	5	
24 February 2012	18:02	VM9	0.35	5	
24 February 2012	15:01	VM11	0.13	5	No demolition
24 February 2012	15:57	VM12	0.13	5	activity
24 February 2012	15:37	VM13	1.14	5	
24 February 2012	15:20	VM14	0.13	5	
24 February 2012	15:48	VM15	0.13	5	
24 February 2012	16:18	VM16	0.89	5	
24 February 2012	16:02	VM17	0.13	5	
24 February 2012	16:51	VM18	0.13	5	
24 February 2012	16:39	VM19	0.13	5	

Stage: Initial Stage (Baseline) for stage 2a

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
30 April 2012	09:01	VM7	0.63	5	No demolition
30 April 2012	09:10	VM9	0.25	5	activity







YSK2 ENGINEERING CO. LTD. 日昇基建工程有限公司

Demolition Works Central Police Station Compound at No. 10, Hollywood Road Record of Vibration Monitoring

Stage: stage 2

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
	10:42	VM1	0.25	5	
	09:41	VM3	0.13	5	
	09:22	VM5	0.13	5	Demolition of
21 May 2012	09:52	VM16	0.25	5	
	10:03	VM17	0.13	5	Building M,
	10:24	VM18	0.22	5	
	10:13	VM19	0.13	5	

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
22 May 2012	10:16	VM1	0.56	5	Demolition of Building M,
	09:14	VM3	0.13	5	
	08:53	VM5	0.15	5	
	09:27	VM16	0.15	5	
	09:58	VM17	0.15	5	
	09:42	VM18	0.25	5	
	09:49	VM19	0.13	5	

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
23 May 2012	09:42	VM1	0.32	5	Demolition of Building M
	08:40	VM3	0.25	5	
	08:27	VM5	0.25	5	
	08:53	VM16	0.25	5	
	09:02	VM17	0.13	5	
	09:24	VM18	0.25	5	
	09:15	VM19	0.13	5	





Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
	10:32	VM1	0.42	5	
	10:08	VM3	0.25	5	
	09:57	VM5	0.25	5	Domolition of
24 May 2012	09:17	VM16	0.25	5	Demolition of Building M,
	09:29	VM17	0.13	5	
	09:44	VM18	0.25	5	
	09:36	VM19	0.13	5	

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
	09:15	VM1	0.36	5	
	08:49	VM3	0.37	5	
	09:03	VM5	0.25	5	Domolition of
25 May 2012	08:13	VM16	0.27	5	Demolition of Building M,
	08:21	VM17	0.13	5	
	08:38	VM18	0.25	5	
	08:30	VM19	0.23	5	

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
	09:37	VM1	0.25	5	
	09:19	VM3	0.32	5	
	09:23	VM5	0.36	5	Domolition of
26 May 2012	08:32	VM16	0.36	5	Demolition of Building M
	08:40	VM17	0.25	5	
	09:07	VM18	0.25	5	
	08:49	VM19	0.25	5	





Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
	10:47	VM1	0.25	5	
	09:46	VM3	0.12	5	
	09:27	VM5	0.12	5	Domolition of
28 May 2012	09:57	VM16	0.24	5	Demolition of Building M,
	10:08	VM17	0.12	5	
	10:29	VM18	0.21	5	
	10:18	VM19	0.12	5	

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
	10:11	VM1	0.56	5	
	09:09	VM3	0.13	5	
	08:48	VM5	0.15	5	Domolition of
29 May 2012	09:22	VM16	0.15	5	Demolition of Building M,
	09:53	VM17	0.15	5	
	09:37	VM18	0.25	5	
	09:44	VM19	0.13	5	

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
	10:42	VM1	0.32	5	
	09:40	VM3	0.25	5	
	09:27	VM5	0.25	5	Domolition of
30 May 2012	09:53	VM16	0.25	5	Demolition of Building M
	10:02	VM17	0.13	5	
	10:24	VM18	0.25	5	
	10:15	VM19	0.13	5	





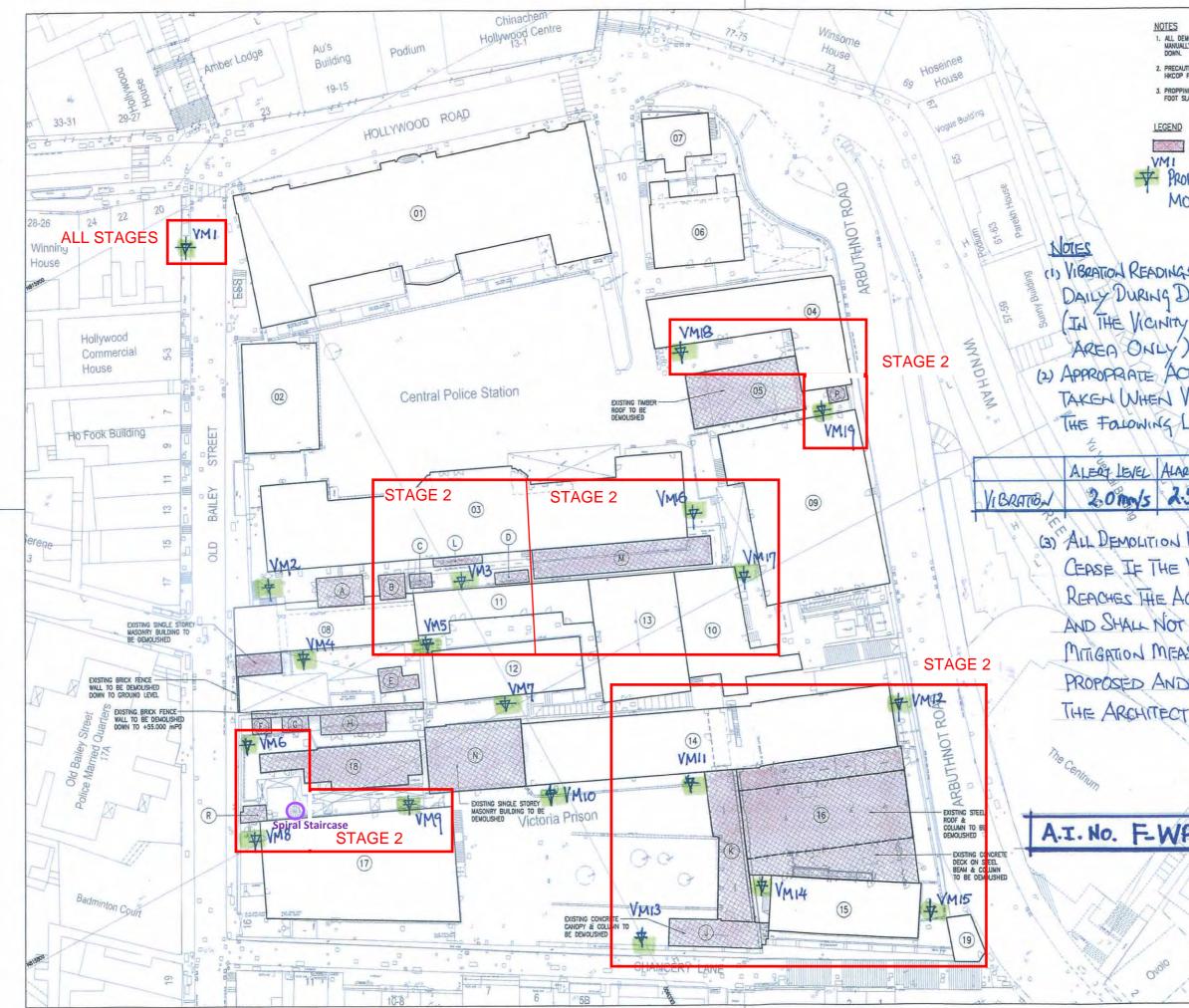
Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
	10:35	VM1	0.42	5	
	10:13	VM3	0.25	5	
	10:03	VM5	0.25	5	Domolition of
31 May 2012	09:22	VM16	0.25	5	Demolition of Building M,
	09:34	VM17	0.13	5	
	09:49	VM18	0.25	5	
	09:41	VM19	0.13	5	

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
	09:15	VM1	0.36	5	
	08:49	VM3	0.32	5	
	09:03	VM5	0.25	5	Domolition of
1 June 2012	08:13	VM16	0.27	5	Demolition of Building M,
	08:21	VM17	0.13	5	
	08:38	VM18	0.25	5	
	08:30	VM19	0.23	5	

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
	09:37	VM1	0.25	5	
	09:19	VM3	0.28	5	
	09:23	VM5	0.32	5	Domolition of
2 June 2012	08:32	VM16	0.25	5	Demolition of
	08:40	VM17	0.13	5	Building M
	09:07	VM18	0.25	5	
	08:49	VM19	0.13	5	







.D. Rof. No. 展示書檔案编 -1/3055, 10 (HII) FSD Ref No 通防虚控家 1. ALL DEMOLITION WORK SHALL BE CARRIED OUT MANUALLY BY HAND HELD EQUIPMENT FROM TO PRECAUTIONARY MEASURES SHALL FOLLOW THE HKCOP FOR DEMOLITION OF BUILDINGS 2004. PROPPING SHALL BE PROVIDED UNDERNEATH ALL FOOT SLAB. LEGEND AREA TO BE DEMOLISHED (SINGLE STOREY CONCRETE BUILDING U.N.O.) VMI PROPOSED VIBRATION MONITORING STATION (1) VIBRATION READINGS SHALL BE TAKEN DAILY DURING DEMOLITION WORKS (IN THE VICINITY OF THE WORKS Key Plan 索引圖 (2) APPROPRIATE ACTIONS SITAL BE TAKEN WHEN VIBRATION REACHES THE FOLLOWING LEVELS ALERT LEVEL ALARM LEVEL ACTION LEVEL BD SUBMISSION 20mm/s 2.5mm/s 3.0mm/s wing Status 製圖狀況 of relevant consultants。 本匯結及其內容的版權是有關關問公司所有 No part of the drawing and the design con may be reproduced without the prior write (3) ALL DEMOLITION WORKS SHALL ...ay we reproduced without the prior written consent relevant consultants. 未經有個額同公司實面同言。不得接點此圖終內任 內容成設計 CEASE IF THE VIBRATION Do not take measurements o 切向直接從靈紙上豐厚尺寸 Check and varity all cimensions on site 所有尺寸必须在工地現場後受及審核 Read this drawing in conjunction with the specification and all other related drawings. 注意起应该保凭信息的复数其它有酬面低一切問題。 REACHES THE ACTION LEVEL, Notly the relevant consusants in reducing in any discrepancy found herein, 加發現內容有任何謬認之道, 應立刻通知有關觀 AND SHALL NOT RESUME UNTIL Client 12 ± MITIGATION MEASURES ARE Design Consulta PROPOSED AND ACCEPTED BY HERZOG & DE MEURON THE ARCHITECT / ENGINEER whited / A ROCCO 计字 Structural Engineer / RSE E & M Engine ARUP Project 제표 CENTRAL POLICE STATION CONSERVATION AND REVITALISATION A.I. No. F-WP101-004 (OVERALL) VIBRATION MONITORING Scale 比원 Drawn NIE 1:300@A1 P.C. Checked 12 11 T.H. Drawing No. #12 DE-OAP209674-L-100 02 O 11 NOU 2011



Demolition Works Central Police Station Compound at No. 10, Hollywood Road Record of Vibration Monitoring

Record of

Vibration Monitoring for

Demolition Works at

Central Police Station Compound at

No. 10, Hollywood Road

Report no.11

(4 June 2012 ~ 16 June 2012)





Demolition Works Central Police Station Compound at No. 10, Hollywood Road Record of Vibration Monitoring

Stage: Initial Stage (Baseline) for stage 1

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
23 Dec 2011	11:05	VM1	0.51	5	
23 Dec 2011	14:18	VM4	0.25	5	
23 Dec 2011	14:27	VM5	0.63	5	
23 Dec 2011	13:30	VM6	0.13	5	No demolition
23 Dec 2011	14:40	VM7	0.13	5	activity
23 Dec 2011	14:06	VM8	0.13	5	
23 Dec 2011	13:21	VM9	0.13	5	
23 Dec 2011	13:41	VM10	0.13	5	

Stage: Initial Stage (Baseline) for stage 2 and 3

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
24 February 2012	17:41	VM1	0.25	5	
24 February 2012	17:17	VM3	0.25	5	
24 February 2012	17:50	VM5	0.25	5	
24 February 2012	17:53	VM6	0.32	5	
24 February 2012	17:57	VM8	0.35	5	
24 February 2012	18:02	VM9	0.35	5	
24 February 2012	15:01	VM11	0.13	5	No demolition
24 February 2012	15:57	VM12	0.13	5	activity
24 February 2012	15:37	VM13	1.14	5	
24 February 2012	15:20	VM14	0.13	5	
24 February 2012	15:48	VM15	0.13	5	
24 February 2012	16:18	VM16	0.89	5	
24 February 2012	16:02	VM17	0.13	5	
24 February 2012	16:51	VM18	0.13	5	
24 February 2012	16:39	VM19	0.13	5	

Stage: Initial Stage (Baseline) for stage 2a

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
30 April 2012	09:01	VM7	0.63	5	No demolition
30 April 2012	09:10	VM9	0.25	5	activity





Demolition Works Central Police Station Compound at No. 10, Hollywood Road Record of Vibration Monitoring

Stage: stage 2

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
	10:47	VM1	0.25	5	
	09:46	VM3	0.12	5	
	09:27	VM5	0.12	5	Domolition of
4 June 2012	09:57	VM16	0.24	5	Demolition of Building P
	10:08	VM17	0.12	5	
	10:29	VM18	0.21	5	
	10:18	VM19	0.12	5	

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
	10:11	VM1	0.56	5	
	09:09	VM3	0.13	5	
	08:48	VM5	0.15	5	Domolition of
5 June 2012	09:22	VM16	0.15	5	Demolition of Building P
	09:53	VM17	0.15	5	
	09:37	VM18	0.25	5	
	09:44	VM19	0.13	5	

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
	10:42	VM1	0.32	5	
	09:40	VM3	0.25	5	
	09:27	VM5	0.25	5	Domolition of
6 June 2012	09:53	VM16	0.25	5	Demolition of Building P
	10:02	VM17	0.13	5	
	10:24	VM18	0.25	5	
	10:15	VM19	0.13	5	





Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
	10:35	VM1	0.42	5	
	10:13	VM3	0.25	5	
	10:03	VM5	0.25	5	Domolition of
7 June 2012	09:22	VM16	0.25	5	Demolition of Building P
	09:34	VM17	0.13	5	
	09:49	VM18	0.25	5	
	09:41	VM19	0.13	5	

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
	09:15	VM1	0.36	5	
	08:49	VM3	0.32	5	
	09:03	VM5	0.25	5	Domolition of
8 June 2012	08:13	VM16	0.27	5	Demolition of Building P
	08:21	VM17	0.13	5	
	08:38	VM18	0.25	5	
	08:30	VM19	0.23	5	

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
	09:37	VM1	0.25	5	
	09:19	VM3	0.28	5	
	09:23	VM5	0.32	5	Demolition of
9 June 2012	08:32	VM16	0.25	5	
	08:40	VM17	0.13	5	Building P
	09:07	VM18	0.25	5	
	08:49	VM19	0.13	5	





Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
	11:13	VM1	0.57	5	
	10:39	VM3	0.52	5	
	08:42	VM5	0.25	5	Domolition of
11 June 2012	10:28	VM16	0.25	5	Demolition of Building P
	08:33	VM17	0.13	5	
	08:51	VM18	0.25	5	
	10:20	VM19	0.13	5	

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
	14:56	VM1	0.46	5	
	15:08	VM3	0.38	5	
	14:39	VM5	0.25	5	Domolition of
12 June 2012	13:19	VM16	0.38	5	Demolition of Building P
	14:27	VM17	0.13	5	
	13:13	VM18	0.25	5	
	13:27	VM19	0.13	5	

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
	09:12	VM1	0.57	5	
	09:33	VM3	0.76	5	
	08:47	VM5	0.32	5	Demolition of
13 June 2012	09:42	VM16	0.13	5	
	10:08	VM17	0.13	5	Building P
	09:59	VM18	0.25	5	
	09:50	VM19	0.25	5	







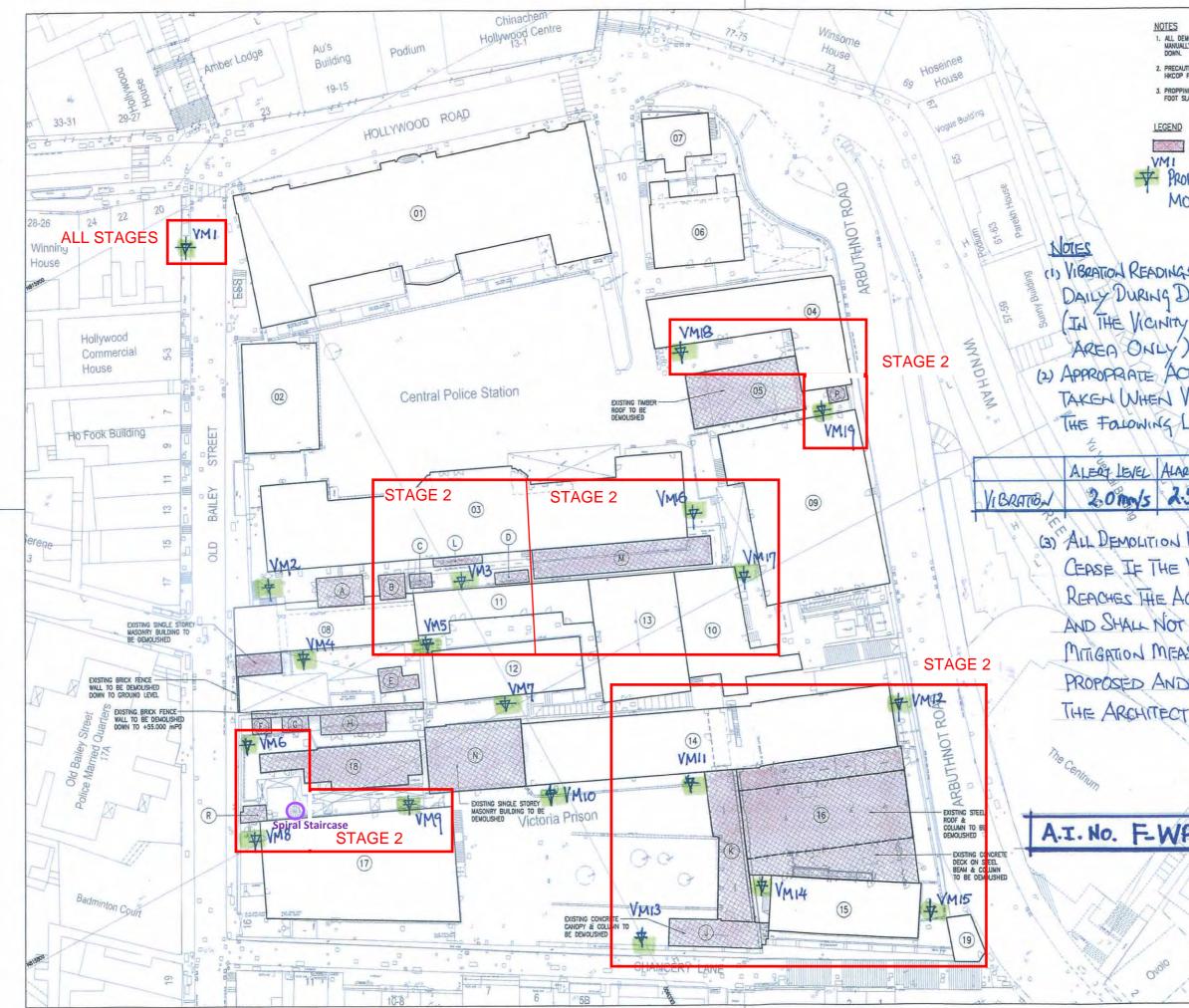
Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
	09:07	VM1	0.52	5	
	09:19	VM3	0.63	5	
	08:43	VM5	0.89	5	Domolition of
14 June 2012	09:34	VM16	0.32	5	Demolition of Building P
	10:02	VM17	0.13	5	
	09:51	VM18	0.25	5	
	09:43	VM19	0.13	5	

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
	14:10	VM1	0.67	5	
	13:54	VM3	0.54	5	
	16:17	VM5	0.75	5	Domolition of
15 June 2012	15:21	VM16	0.37	5	Demolition of Building P
	15:47	VM17	0.25	5	
	15:39	VM18	0.25	5	
	15:28	VM19	0.13	5	

Date	Time	Location of Check Points	Result (Max. Point) (mm/s)	Monitoring Duration (Mins)	Location of Demolition Work
	15:01	VM1	0.25	5	
	15:57	VM3	0.54	5	
	15:37	VM5	0.25	5	Domolition of
16 June 2012	15:20	VM16	0.13	5	Demolition of Building P
	15:48	VM17	0.23	5	
	16:18	VM18	0.25	5	
	16:02	VM19	0.13	5	







.D. Rof. No. 展示書檔案编 -1/3055, 10 (HII) FSD Ref No 通防虚控家 1. ALL DEMOLITION WORK SHALL BE CARRIED OUT MANUALLY BY HAND HELD EQUIPMENT FROM TO PRECAUTIONARY MEASURES SHALL FOLLOW THE HKCOP FOR DEMOLITION OF BUILDINGS 2004. PROPPING SHALL BE PROVIDED UNDERNEATH ALL FOOT SLAB. LEGEND AREA TO BE DEMOLISHED (SINGLE STOREY CONCRETE BUILDING U.N.O.) VMI PROPOSED VIBRATION MONITORING STATION (1) VIBRATION READINGS SHALL BE TAKEN DAILY DURING DEMOLITION WORKS (IN THE VICINITY OF THE WORKS Key Plan 索引圖 (2) APPROPRIATE ACTIONS SITAL BE TAKEN WHEN VIBRATION REACHES THE FOLLOWING LEVELS ALERT LEVEL ALARM LEVEL ACTION LEVEL BD SUBMISSION 20mm/s 2.5mm/s 3.0mm/s wing Status 製圖狀況 of relevant consultants。 本匯結及其內容的版權是有關關問公司所有 No part of the drawing and the design con may be reproduced without the prior write (3) ALL DEMOLITION WORKS SHALL ...ay we reproduced without the prior written consent relevant consultants. 未經有個額同公司實面同言。不得接點此圖終內任 內容成設計 CEASE IF THE VIBRATION Do not take measurements o 切向直接從靈紙上豐厚尺寸 Check and varity all cimensions on site 所有尺寸必须在工地現場後受及審核 Read this drawing in conjunction with the specification and all other related drawings. 注意起应该保凭信息的复数其它有酬面低一切問題。 REACHES THE ACTION LEVEL, Notly the relevant consusants in reducing in any discrepancy found herein, 加發現內容有任何謬認之道, 應立刻通知有關觀 AND SHALL NOT RESUME UNTIL Client 12 ± MITIGATION MEASURES ARE Design Consulta PROPOSED AND ACCEPTED BY HERZOG & DE MEURON THE ARCHITECT / ENGINEER whited / A ROCCO 计字 Structural Engineer / RSE E & M Engine ARUP Project 제표 CENTRAL POLICE STATION CONSERVATION AND REVITALISATION A.I. No. F-WP101-004 (OVERALL) VIBRATION MONITORING Scale 比원 Drawn NIE 1:300@A1 P.C. Checked 12 11 T.H. Drawing No. #12 DE-OAP209674-L-100 02 O 11 NOU 2011

Annex M

Records of Vibration Monitoring for Trial Pile Works



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	A TENDER DRAWING 08/11 JS
	B TENDER ADDENDUM 09/11 JS C BD RE-SUBMISSION 09/11 JS
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EXISTING TRIAL PIT (DONE BY OTHERS)	Drawing Status 製圖狀況
4 EXISTING COREHOLE (DONE BY OTHERS)	 This drawing and the contents herein are the copyright of relevant consultants. 本圖紙及其內容的版權屬有關新問公司所有。
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EXISTING TRIAL PIT (DONE BY OAP)	- Do not take measurements directly from this drawing. 切勿直接從圓紙上量度尺寸。
HI EXISTING HORIZONTIAL/INCLINED COREHOLE	- Check and verify all dimensions on site. 所有尺寸必須在工地現場複查及審核。
(DONE BY OAP)	 Read this drawing in conjunction with the specifications and all other related drawings.
(DONE BY OAP)	 Read this drawing in conjunction with the specifications and at other related drawings. 此區紙必須與規格說明書及其它有問題紙一併阅請。 Notify the relevant consultants immediately of any
	- Read this drawing in conjunction with the specifications and all other instead drawings. 此運転多力與規格說明書及其它有開圈紙一併阅讀。 - Notify the relevant consultants immediately of any discrepancy found herein. 加發與內容有任何認識之處。應立刻通知有問範問公
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(DONE BY GAP) EXISTING VERTICAL COREHOLE (DONE BY GAP) EXISTING INCLINED DRILLHOLE (DONE BY GAP) DENOTED STANDPIPE/PIEZOMETER (OH18, DH20 & DH27) SITE BOUNDARY	- Read this drawing in comparison with the specifications and all other related drawings. 北部総合規模的構成制度成化力的構成。 中的時間 the related considers in a specification of the relation of the relation of the relation of the relation of the relation in a specification of the relatio
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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
20-May-2012																
21-May-2012		0.24	0.26	0.31	0.13	0.23	0.31	0.69	0.62	0.90	0.79	0.27	0.27	0.13	0.13	0.19
22-May-2012		0.61	0.13	0.27	0.69	0.51	0.22	0.40	0.30	0.71	0.27	0.13	0.37	0.19	0.60	0.30
23-May-2012		0.13	0.27	0.19	0.21	0.31	0.69	0.30	0.23	0.60	0.51	0.27	0.41	0.16	0.44	0.31
24-May-2012		0.26	0.22	0.27	0.31	0.21	0.27	0.27	0.30	0.33	0.51	0.19	0.81	1.01	0.69	1.27
25-May-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
26-May-2012		0.30	0.21	0.71	0.61	0.13	0.69	0.31	0.27	0.71	0.13	0.19	1.13	0.22	0.26	0.22
27-May-2012																
28-May-2012		0.27	0.13	0.27	0.17	0.19	0.52	0.61	1.08	0.71	0.13	0.24	0.17	1.22	0.69	0.23
29-May-2012		0.31	0.22	0.19	0.13	0.13	0.41	0.19	0.91	0.51	0.21	0.19	0.51	0.19	0.13	0.27
30-May-2012		0.61	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
31-May-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
1-Jun-2012		0.23	0.28	0.13	0.13	0.67	0.52	0.33	0.13	0.19	0.27	0.18	1.08	0.61	0.21	0.13
2-Jun-2012		0.22	0.61	0.88	0.34	0.13	0.13	0.13	0.19	0.27	0.22	0.18	0.90	1.02	0.73	0.90

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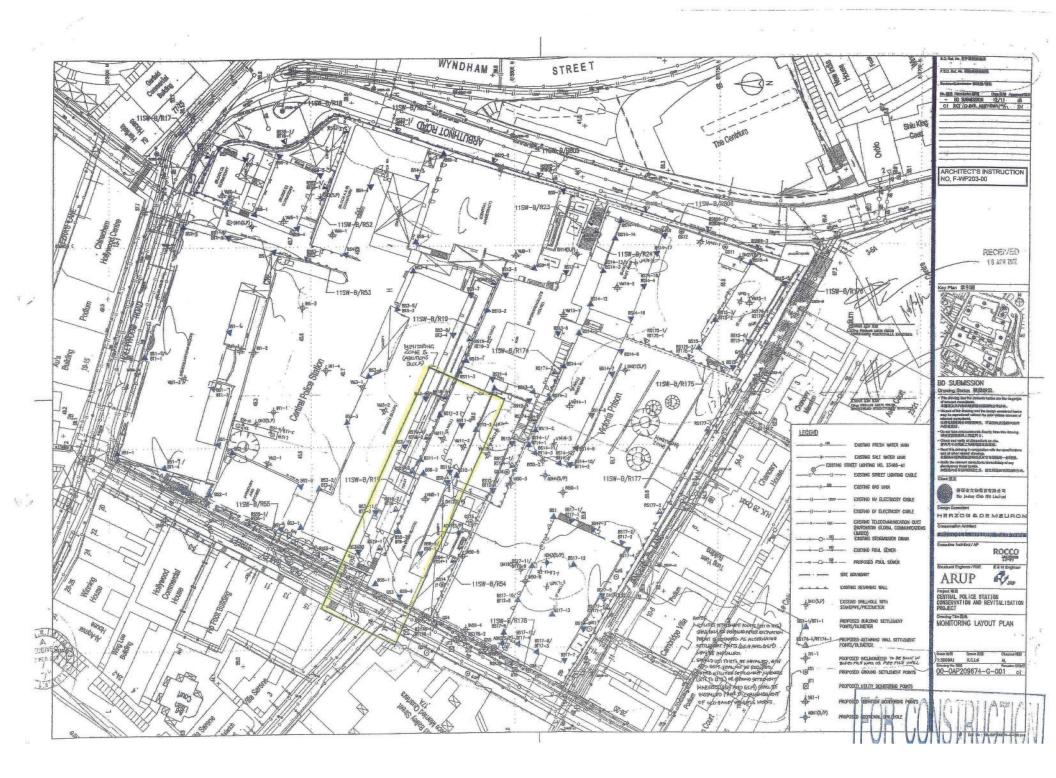
VV VV	恆計	建筑	工程	有限/	八司							Monitoring	g Check Pts.		Trigger Level	S
	LTT HV	w注木		BML A	1 HJ							MONITOLIUS	g Check Pis.	Alert level	Alarm level	Action level
Win Wi	ı Way (Constru	iction (omnany	v Ltd.							Vibrating	Monitoring	2mm/s	2.5mm/s	3mm/s
			Police St			n & Day	1927	bration			1			2 (201)		2012
Tiojee	, The second	Central	r once St		iiseivalic		nanzano	en r	roject N	0: WP20	1		Date	: 3-6-2012	2 To 16-6-	-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
3-Jun-2012			10000				ferral and the									
4-Jun-2012		0.13	0.29	0.13	0.19	0.13	0.61	0.22	0.27	0.30	0.38	0.27	0.38	0.61	0.13	0.17
5-Jun-2012		0.21	0.13	0.69	0.71	0.33	0.16	0.23	0.79	0.32	0.22	0.13	0.23	0.63	0.14	0.19
6-Jun-2012		0.31	0.33	0.22	0.27	0.13	0.61	0.51	0.13	0.21	1.01	0.21	0.34	0.27	0.38	0.61
7-Jun-2012		0.29	0.13	0.18	0.17	0.13	0.19	0.29	0.28	0.30	0.61	0.33	0.22	0.81	0.31	0.13
8-Jun-2012		0.13	0.21	0.29	0.81	0.21	0.23	0.33	0.60	0.18	0.55	0.23	0.31	0.79	0.13	0.16
9-Jun-2012		0.61	0.13	0.31	0.29	0.21	0.34	0.61	0.19	0.22	0.21	0.23	0.19	0.70	1.05	0.69
10-Jun-2012																
11-Jun-2012		0.27	0.13	0.60	0.71	0.33	0.16	0.29	0.66	0.32	0.22	0.19	0.23	0.61	0.19	0.26
12-Jun-2012		0.33	0.21	0.46	0.32	0.13	0.23	1.12	0.56	0.21	0.34	0.69	0.32	0.55	0.39	0.25
13-Jun-2012		0.66	0.19	0.16	0.23	0.79	0.32	0.22	0.13	0.23	0.71	0.13	0.19	0.29	0.28	0.30
14-Jun-2012		0.61	0.79	0.32	0.22	0.13	0.23	0.63	0.14	0.13	0.21	0.16	0.29	0.66	0.32	0.22
15-Jun-2012		0.22	0.27	0.30	0.38	0.27	0.28	0.71	0.33	0.13	0.61	0.51	0.13	0.21	1.01	0.21
16-Jun-2012		0.33	0.16	0.23	0.79	0.32	0.22	0.63	0.56	0.34	0.27	0.21	0.29	0.81	0.21	0.23

WW Win Wir				有限公			Vi	bration	Reco	rd		Monitoring Vibrating	Check Pts. Monitoring	Alert level 5 mm/s	Trigger Level Alarm level &mm/s	s Action level 7. 5 mm/s
Project T	itle: Cer	ntral Poli	ce Static	on Conse	rvation &	k Revital	ization	Proj	ect No: V	VP201			D	ate: 17-6-2	2012 To 3	0-6-2012
POIN	T	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
17-Jun-2012																
18-Jun-2012		0.32	0.22	0.13	0.23	0.71	0.13	0.19	0.14	0.81	0.21	0.23	0.33	0.22	0.13	0.22
19-Jun-2012		0.66	0.29	0.28	0.30	0.61	0.13	0.69	0.71	0.33	0.16	0.23	0.32	0.13	0.23	1.12
20-Jun-2012		0.22	0.13	0.23	0.63	0.14	0.13	0.21	0.16	0.23	0.79	0.32	0.22	0.19	0.70	1.05
21-Jun-2012		0.29	0.21	0.34	0.61	0.21	0.34	0.69	0.32	0.55	0.63	0.14	0.13	0.21	0.16	0.16
22-Jun-2012		0.22	0.19	0.23	0.61	0.32	0.13	0.23	1.12	0.56	0.23	0.71	0.13	0.19	0.14	0.81
23-Jun-2012									Public	Holiday						
24-Jun-2012																
25-Jun-2012		0.13	0.61	0.51	0.13	0.21	1.01	0.21	0.34	0.27	0.56	0.34	0.27	0.21	0.29	0.81
26-Jun-2012																
27-Jun-2012																
28-Jun-2012																
29-Jun-2012																
30-Jun-2012																

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Annex N

Records of Vibration Monitoring for Other Construction Works



	1- 5	1 1 1 1	陈方引	R IN E								Monitonian	Charle Dec		Frigger Level	IS
$ \times $	1-3	了经	祭何日	2 4 9		4						Monitoring	Check Pis.	Alert level	Alarm level	Action level
	Yan	Lee C	onstruc	見公司 ction Co)., Lti	d.						Vibrating	Monitoring	2mm/s	2.5mm/s	3mm/s
	-						bratior	Reco	rd							
P	roject Titl	e: Central	Police Stati	on Conserva	tion & Re	evitalizat	ion	Project	No: WP2	203		Ľ	Date: 20-5	-2012 To	2-6-2012	
		1	1	1					1		1					
POIN	C	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-2012	(Initial)	0.212	0.087	0.116												
20-May-2012					1					0	1					
21-May-2012		0.210	0.085	0.120												
22-May-2012		0.053	0.124	0.142	100											
23-May-2012		0.121	0.186	0.132	1. 1.											
24-May-2012		0.098	0.068	0.128		1.5										
25-May-2012		0.046	0.118	0.132	1111	127	2.3	=	1.12							
26-May-2012		0.052	0.097	0.107			-									
27-May-2012																
28-May-2012		0.142	0.107	0.125				Street.	2531			Section 5				
29-May-2012		0.179	0.102	0.110	STOLEN.											
30-May-2012		0.098	0.102	0.111				2.015								
31-May-2012		0.121	0.112	0.118												
1-Jun-2012		0.124	0.072	0.122												
2-Jun-2012		0.097	0.063	0.082												1

\smallsetminus	1二 年	一種	医有网	えいう								Monitoring	Chank Dto		Frigger Level	5
		1 34 7	9~ 13 ac	え公司 tion Co	<i>c</i> .	r					- 0	Monitoring	GHOUR PIS.	Alert level	Alarm level	Action level
Z	yan	Lee C	onstruc	tion Co	., Lti							Vibrating I	Monitoring	2mm/s	2.5mm/s	3mm/s
						Vi	bratior	1 Recc	ord							
1	Project Title	e: Central	Police Static	n Conservati	on & Re	vitalizatio	on l	Project N	lo: WP20)3		Da	te: 3-6-20	12 To 16-	6-2012	
POIN	T	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											2	
3-Jun-2012				Conserver Loover												
4-Jun-2012		0.121	0.102	0.113												-
5-Jun-2012		0.118	0.087	0.098												
6-Jun-2012		0.132	0,110	0.121											manar in	
7-Jun-2012		0.148	0.093	0.102												
8-Jun-2012		0.102	0.086	0.093												
9-Jun-2012		0.108	0,090	0.097												
10-Jun-2012																
11-Jun-2012		0.113	0.104	0.117												
12-Jun-2012	-	0.101	0.092	0.098			1									
13-Jun-2012		0.126	0.113	0.121												
14-Jun-2012	in the second	0.116	0.083	0.094					~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~							
15-Jun-2012		0.118	0.092	0.105				[1.8			an de California		State of Concession, Name of States	
16-Jun-2012	1	0.103	0.088	0.096							20,052				<u>n ant 1</u>	1 2 A 1 2 A 1 2 A 1 2 A 1 2 A 1 2 A 1 2 A 1 2 A 1 2 A 1 2 A 1 2 A 1 2 A 1 2 A 1 2 A 1 2 A 1 2 A 1 2 A 1 2 A 1 2

\searrow	1- 2	一種筆	定有限	いい司								Monitoring	Check Dte	1	Frigger Level	S
	1- 9			と公司 tion Co	<i>c</i> .	r						womtoring	CHECK I IS.	Alert level	Alarm level	Action leve
	Yan.	Lee C	onstruc	tion Co	., Lti	1.						Vibrating	Monitoring	2mm/s	2.5mm/s	3mm/s
						Vi	bration	Reco	rd							
· F	Project Title	: Central	Police Statio	n Conservati	on & Re	vitalizatio	on I	Project N	o: WP20)3		Da	te:17-6-20	12 To 30 -	6-2012	
POIN	r .	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												
17-Jun-2012																
18-Jun-2012		0.128	0.093	0.114												
19-Jun-2012		0.136	0.112	0.123							18					
20-Jun-2012		0.116	0.083	0.095												
21-Jun-2012		0.126	0.097	0.113												
22-Jun-2012		0.103	0.108	0.121												
23-Jun-2012																
24-Jun-2012																
25-Jun-2012		0.132	0.110	0.118												
26-Jun-2012	0	0.127	0.098	0.105												
27-Jun-2012		0.118	0.086	0.093	8											
28-Jun-2012		0.142	0.103	0.115												
29-Jun-2012		0.122	0.096	0.103				1								
30-Jun-2012		0.106	0.082	0.094												

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