Contract No. GE/2013/35 Landslip Prevention and Mitigation Programme, 2012, Package A Landslip Prevention and Mitigation Works

Landslip Prevention and Mitigation Works at Feature Nos. 11SW-A/R94 and 11SW-A/FR218, Caine Lane, Mid-Levels

Monthly EM&A Report for May 2017

AECOM Asia Co. Ltd.

Table of Contents

			Page
EX	ECL	JTIVE SUMMARY	3
1	1.1 1.2	INTRODUCTION Purpose of the Report Report Structure	Δ
2	2.2 2.3 2.4	PROJECT INFORMATION Background Site Description Construction Programme and Activities. Project Personnel Status of Environmental Licenses, Notification and Permits	5 5 6
3		IMPLEMENTATION STATUS OF ENVIRONMENTAL MITIGATION MEASURES	8
4	4.2	MONITORING RESULTS	. 9
5		ENVIRONMENTAL SITE INSPECTION AND AUDIT	. 10
6	6.2	ENVIRONMENTAL NON-CONFORMANCE Summary of Environmental Non-Compliance Summary of Environmental Complaints Summary of Environmental Summon and Successful Prosecutions	. 11
7		GOVERNMENT AUTHORITY INSPECTION	12
8	8.1	FUTURE KEY ISSUES Construction Programme for the Coming Month	13 13
9	9.1 9.2	CONCLUSIONS AND RECOMMENDATIONS	14
10		ADJUSTMENT	15

List of Tables

Table 2.1	Contact Information of Key Personnel
Table 2.2	Status of Environmental Licenses, Notifications and Permits
Table 3.1	Status of Required Submission under Environmental Permit
Table 5.1	Observations and Recommendations of Site Audit

List of Appendices

Appendix A	Construction Programme
Appendix B	Environmental Mitigation Implementation Schedule
Appendix C	Record of Disposal
Appendix D	IEC Site Audit Checklist

EXECUTIVE SUMMARY

The Project comprises two slopes which respectively located at the south of the Hong Kong Museum of Medical Sciences (HKMMS) and the northwest of HKMMS, Caine Lane, Mid-levels.

The Consultants, which was engaged by the Geotechnical Engineering Office (GEO) of CEDD, would carry out the design and construction supervision of the Project. The Hong Kong Museum of Medical Science Society (HKMMS Society) would be responsible for routine maintenance of the completed works.

The EM&A programme commenced on 5 April 2017.

This report documents the findings of EM&A works conducted in the period between 1 and 31 May 2017. As informed by the Contractor, major activities in the reporting period were:

Location	Site Activities
11SW-A/R94	 Temporary removal of the existing masonry stone facing Drilling of soil nail holes by coring machine Fixing and installation of soil nail bars Grouting of soil nails holes
11SW-A/FR218	 Pit by pit excavation Laying of blinding at the bottom of the excavated pits Installation of dowel bars at the back of the existing masonry wall Backfilling of the excavated pits by concrete Backfilling of top soil

Complaint, Notification of Summons and Successful Prosecution

No environmental complaint and no notification of summons and successful prosecution were received in the reporting month.

Reporting Changes

There was no reporting change in the reporting month.

Site Inspection by External Parties

An ad-hoc site inspection on 22 May 2017 by EPD was undertaken in this Reporting Month.

Future Key Issues

Key issues to be considered in the coming month included:-

Location	Site Activities		
11SW-A/R94	 Drilling of soil nail holes by coring machine Fixing and installation of soil nail bars Grouting of soil nails holes Reinstate the masonry stone facing 		
11SW-A/FR218	 Pit by pit excavation Laying of blinding at the bottom of the excavated pits Installation of dowel bars at the back of the existing masonry wall Backfilling of the excavated pits by concrete Backfilling of top soil Construction of stairway 		

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

1 INTRODUCTION

1.1 Purpose of the Report

1.1.1 This is the second monthly EM&A Report which summaries audit findings for the project during the reporting period between 1 and 31 May 2017.

1.2 Report Structure

1.2.1 This monthly EM&A Report is organized as follows:

Section 1: Introduction

Section 2: Project Information

Section 3: Implementation Status of Environmental Mitigation Measures

Section 4: Monitoring Results

Section 5: Environmental Site Inspection and Audit

Section 6: Environmental Non-conformance Section 7: Government Authority Inspection

Section 8: Future Key Issues

Section 9: Conclusions and Recommendations

Section 10: Adjustment

2 PROJECT INFORMATION

2.1 Background

- 2.1.1 The Project comprises Feature Nos. 11SW-A/R94 and 11SW-AFR218 which respectively located at the south of the Hong Kong Museum of Medical Sciences (HKMMS) and the northwest of HKMMS, Caine Lane, Mid-levels. They are located within a "Government, Institution or Community" (G/IC) zone on the Sai Ying Pun & Sheung Wan Outline Zoning Plan (OZP) No. S/H3/29. The location of the Project is shown in Project Profile plan.
- 2.1.2 The Project Profile (PP) for the above features (Register No.: PP-541/2016) was submitted on 20 June 2016 under the Environmental Impact Assessment Ordinance (EIAO). Following the submitted PP, the Director of Environmental Protection (DEP)'s letter of permission to apply directly for environmental permit on 26 July 2016 (Ref.: DIR-250/2016). Environmental Permit (EP) (EP No. EP-520/2016) was granted on 8 August 2016, which covers Feature Nos. 11SW-A/R94 and 11SW-AFR218.

2.2 Site Description

2.2.1 The main scope of works for the two features comprises the following as shown:

Feature no. 11SW-A/R94

- Temporary removal of the existing masonry stone facing
- Drilling of soil nail holes by coring machine
- Fixing and installation of soil nail bars
- Grouting of soil nails holes
- Construction of soil nail heads
- Reinstatement of the existing masonry stone facing

Feature no. 11SW-A/FR218

- Pit by pit excavation
- Laying of blinding at the bottom of the excavated pits
- Installation of dowel bars at the back of the existing masonry wall
- Backfilling of the excavated pits by concrete
- Backfilling of top soil
- Landscape works (planter wall, shrubs and hydroseeding)

2.3 Construction Programme and Activities

2.3.1 The major construction activities undertaken in the reporting month are summarised below:

Location	Site Activities		
11SW-A/R94	 Temporary removal of the existing masonry stone facing Drilling of soil nail holes by coring machine Fixing and installation of soil nail bars Grouting of soil nails 		
11SW-A/FR218	 Pit by pit excavation Laying of blinding at the bottom of the excavated pits Installation of dowel bars at the back of the existing masonry wall Backfilling of the excavated pits by concrete Backfilling of top soil 		

2.3.2 The construction programme is presented in Appendix A.

2.4 Project Personnel

2.4.1 The key personnel contact names and numbers for the Project are summarized in **Table 2.1.**

Table 2.1 Contact Information of Key Personnel

<u>Party</u>	<u>Position</u>	<u>Name</u>	Telephone
AECOM Asia Co. Ltd.	IEC	Gigi Lam	3922 9000
AECOM Asia Co. Ltd. Resident Engineer		Tommy Poon	3689 2883
Contractor - Geotech	Project Manager	Danise Tang	9183 2621
Engineering Ltd.	Site Agent	Francis Bao	6680 7070

2.5 Status of Environmental Licenses, Notification and Permits

2.5.1 Relevant valid environmental licenses, permits and/or notifications on environmental protection for this Project in the reporting month are summarized in **Table 2.2**.

Table 2.2 Status of Environmental Licenses, Notifications and Permits

Permit / License No. /	Valid Period				
Notification/ Reference No.	From	То	Status	Remarks	
Environmental Permit					
EP-520/2016	8-8-2016	-	Valid	-	
Billing Account for Construction Waste Disposal					
701982721	30-4-2014	End of Project	Account Active	-	

3 IMPLEMENTATION STATUS OF ENVIRONMENTAL MITIGATION MEASURES

3.1.1 The Contractor has implemented environmental mitigation measures and requirements as stated in the PP and the EP. The implementation status of the environmental mitigation measures during the reporting period is summarized in **Appendix B**. Status of required submissions under the EP during the reporting period is summarised in **Table 3.1**.

Table 3.1 Status of Required Submission under Environmental Permit

EP Condition	Submission	Submission Due Date
Condition 3.2	Monthly Monitoring Report	14 June 2017

4 MONITORING RESULTS

4.1 Waste Management

- 4.1.1 C&D materials and wastes sorting were carried out on site. Receptacles were available for C&D wastes and general refuse collection.
- 4.1.2 As advised by the Contractor, 199.05 tons inert C&D material was generated in the reporting month. 0 ton of general refuse was generated in the reporting month. No paper/cardboard packaging material, metal or plastic was collected by recycling contractor in the reporting month. No inert C&D materials were reused on site.
- 4.1.3 The record of disposal is annexed in Appendix C.
- 4.1.4 The Contractor is advised to properly maintain on site C&D materials and wastes collection, sorting and recording system and maximize reuse / recycle of C&D materials and wastes. The Contractor is reminded to properly maintain the site tidiness and dispose of the wastes accumulated on site regularly and properly.
- 4.1.5 The total estimated quantities of C&D materials and wastes generated from both feature is revised as 310 m³.

4.2 Noise Management

- 4.2.1 Noise mitigation measures, which mentioned in PP, have implemented.
- 4.2.2 Noise monitoring was conducted in every week at 6 Noise Sensitive Receiver which mentioned in PP. The results of the noise level have fully complied with the standard which mentioned in PP.
- 4.2.3 According to the advice from EPD, the noise enclosure for the generators have been modified.

4.3 Cultural Heritage Management

- 4.3.1 Ground settlement markers, tilting monitoring markers and vibration monitoring points were installed around the construction site.
- 4.3.2 Reading of the ground settlement, tilting monitoring and vibration monitoring were obtained at a daily interval. And, the reading of the above monitoring have fully complied with the standard which mentioned in PP.

5 ENVIRONMENTAL SITE INSPECTION AND AUDIT

- 5.1.1 Site inspections were carried out on a weekly basis to monitor the implementation of proper environmental pollution control and mitigation measures for the Project. A summary of the mitigation measures implementation schedule is provided in **Appendix B**.
- 5.1.2 In the reporting month, 4 joint site inspections with the IEC, RE's representatives and the Contractor were carried out on 5, 11, 18 and 25 May 2017. The IEC site audit checklists are provided in **Appendix D**. No non-compliance was recorded during the site inspections. Details of observations recorded during the site inspections are presented in **Table 5.1**.

Table 5.1 Observations and Recommendations of Site Audit

<u>Parameters</u>	<u>Date</u>	Observations and Recommendations	Follow-up
Air Quality	Nil	Nil	Nil
Noise	Nil	Nil	Nil
Water Quality	Nil	Nil	Nil
Waste	Nil	Nil	Nil
Cultural Heritage	Nil	Nil	Nil
Permits/Licenses	Nil	Nil	Nil

5.1.3 No follow-up actions were requested by IEC during the site inspection as reported by the Contractor.

6 ENVIRONMENTAL NON-CONFORMANCE

- 6.1 Summary of Environmental Non-Compliance
- 6.1.1 No environmental non-compliance was recorded in the reporting month.
- 6.2 Summary of Environmental Complaints
- 6.2.1 No environmental complaint was recorded in the reporting month.
- 6.3 Summary of Environmental Summon and Successful Prosecutions
- 6.3.1 No environmental related prosecution or notification of summons was received in the reporting month.

7 GOVERNMENT AUTHORITY INSPECTION

7.1.1 There was one site inspection carried out by Environmental Protection Department (EPD) on 22/05/2017. The inspector of EPD had verbally commented on the design of noise enclosure of the generators and the Contractor had modified the noise enclosure accordingly on 27/05/2017.

8 FUTURE KEY ISSUES

8.1 Construction Programme for the Coming Month

8.1.1 Potential environmental impacts arising from the below construction activities are mainly associated with construction dust, construction noise, water quality and waste management.

Location	Site Activities		
11SW-A/R94	 Drilling of soil nail holes by coring machine Fixing and installation of soil nail bars Grouting of soil nails 		
11SW-A/FR218	 Pit by pit excavation Laying of blinding at the bottom of the excavated pits Installation of dowel bars at the back of the existing masonry wall Backfilling of the excavated pits by concrete Backfilling of top soil Construction of stairway 		

9 CONCLUSIONS AND RECOMMENDATIONS

9.1 Conclusions

- 9.1.1 4 nos. of environmental site inspections were carried out in May 2017. Recommendations on remedial actions were given to the Contractor for the deficiencies identified during the site audit.
- 9.1.2 Referring to the Contractor's information, no environmental complaint, notification of summons and successful prosecution was received in the reporting month.
- 9.1.3 EPD carried out a site inspection on 22/05/2017. The inspector of EPD had verbally commented on the design of noise enclosure for the generators. Subsequently, the Contractor had modified the noise enclosure on 27/05/2017.

9.2 Recommendations

9.2.1 According to the environmental site inspections performed in the reporting month, the following recommendations were provided:

Air Quality Impact

No specific observation was identified in the reporting month.

Construction Noise Impact

No specific observation was identified in the reporting month.

Water Quality Impact

• No specific observation was identified in the reporting month.

Waste Management

•No specific observation was identified in the reporting month.

<u>Cultural Heritage</u>

• No specific observation was identified in the reporting month.

Permits/licenses

• No specific observation was identified in the reporting month.

10 ADJUSTMENT

10.1.1 No adjustment in the reporting period.

Appendix A Construction Programme

Anticipated Completion Date: 08/08/2017 Sep 2017 Geotech Engineering Limited Prepared By: Aug 2017 Programme Date: 06/06/2017 Revision No.:_ 59% 200 P Jun 2017 Jul 2017 100% Contractor: Apr 2017 May 2017 Commencement Date: 05/04/2017 Mar 2017 2017/5/26 2017/6/10 2017/8/8 2017/6/3 2017/7/11 2017/8/8 2017/7/11 2017/8/8 2017/8/8 2017/8/3 2017/8/8 Finish Landslip Preventive and Mitigation Programme, 2012, Package ALandslip Preventive and Mitigation Works 2017/6/12 2017/4/5 2017/4/22 2017/6/5 2017/7/12 2017/7/12 2017/4/5 2017/4/5 2017/6/27 2017/8/4 2017/6/27 Start 101 days 101 days 40 days 34 days 25 days 36 days 24 days 12 days 20 days 6 days Duration 4 days Slope No. & Location: 11SW-A/FR218 Pathological Institute, Caine Lane, Mid-Levels 18m (L) 18m (L) 8.0m 80.0 sq.m. 120.0 sq.m. 360 cu.m. 250 cu.m. 73.5 cum. & 960 nrs Works Order Nos.: LPM201335/62/AFR218 Quantity Masonry Works for Wing Wall and Planter Wall Construction for Mass Concrete Planter Wall Construction Wall Stem of Wall Thickening Pit Excavation and install shoring system Pathological Institute, Caine Lane, Mid-Levels Construction of concrete staircase Backfilling with Mass Concrete Hydroseeding & PlantingWorks UPDATED WORKS PROGRAMME Remark: 1. The above duration is based on working days. GEOTECHNICAL WORKS Filling of compacted fill Feature No.11SW-A/FR218 MISCELLANEOUS Contract No.: GE/2013/35 Description A 2 2 Ξ 9 6

Geotech Engineering Limited __Anticipated Completion Date: 30/09/2017 Oct 2017 Prepared By: Programme Date: 06/06/2017 Revision No.: 11 Aug 2017 Sep 2017 Contractor: Jul 2017 05/04/2017 Apr 2017 | May 2017 | Jun 2017 Commencement Date: Landslip Preventive and Mitigation Works Mar 2017 2017/9/26 2017/9/30 2017/9/30 2017/4/18 2017/9/12 2017/9/19 2017/4/7 2017/4/25 2017/9/5 2017/9/30 Finish Slope No. & Location: 11SW-A/R94 Hong Kong Museum of Medical Science, No.2 Caine Lane, Mid-Levels 2017/9/20 2017/4/5 2017/4/8 2017/4/19 2017/4/5 2017/4/11 2017/9/6 2017/4/5 72/6/1102 2017/9/6 Start 147 days 147 days 12 days 116 days 12 days Duration 3 days 4 days 6 days 6 days 4 days 62 ars. 1 item 2 nos. Landslip Preventive and Mitigation Programme, 2012, Package A. 70 nos. 62 ms. l item Contract No.: GE/2013/35 Works Order No.: LPM201335/14/AR94 4 III. 70 nos, Quantity Erection and modification of Base Scaffolding and Dismantlef Temporary Working Platform and Install Test Nails and carry out Pull Out Test Take up and store existing Masonry Stones Reinstatement of existing Masonry Stones Hong Kong Museum of Medical Science (approx. 0.5m x 0.5m each no.) Construction of Soil Nail Heads Temporary Working Platform Installation of Raking Drains UPDATED WORKS PROGRAMME Remark: 1. The above duration is based on working days. GEOTECHNICAL WORKS Soil Nailing Works Feature No.11SW-A/R94 Base Scaffolding 1D Description _ 2 رما 2 40 9 00 6

Appendix B

Environmental Mitigation Implementation Schedule

Appendix B Environmental Mitigation Implementation Schedule

Pot	tential Environmental Impacts	Proposed Mitigation Measures		
	Quality			
•	Fugitive dust emissions from construction activities including site formation, drilling, and wind erosion of the excavated areas	 Dust suppression measures as stipulated in the Air Pollution Control (Construction Dust) Regulation (Cap. 311R) of Air Pollution Control Ordinance (APCO) (Cap. 311) Good site practices 		
No	se			
	Construction noise from the use of powered mechanical equipment (PME) for the construction activities	 Use of quieter PME Use of noise enclosure Use of movable noise barrier Use of noise insulating fabric for certain PME Good site practices 		
Wa	ter Quality			
•	Water pollution from uncontrolled surface runoff and erosion of exposed soil, earthworks and stockpiles during storm events Muddy water from construction activities such as dust suppression sprays, dewatering during excavation and washing of construction equipment	Good site practices as per Professional Persons Environmental Consultative Committee Practice (ProPECC) Note PN 1/94 "Construction Site Drainage"		
Was	ste Management			
	Certain amount of C&D materials from construction works	 Good waste management plan, practices and waste reduction measures Disposal of C&D materials should be managed in accordance with the Development Bureau Technical Circular (Works) DEVB TC(W)) No. 6/2010 "Trip Ticket System for Disposal of Construction & Demolition Materials". Proper storage, collection and transportation to designated destination of waste, including C&D materials, general refuse and chemical wastes On-site sorting of all C&D materials to inert or non-inert 		
	logy			
•	No adverse ecological impact is expected.	Not required		
Culf	ural Heritage			
•	Indirect impact to the historic feature, such as extension of existing cracks on the structures within the Monument or the dislocation of the roof tiles on the Main Building and Annex Block, by ground-borne vibration from the use of PME	 Conduct condition survey at the existing components of the Monument prior to the commencement of the construction work Provide protective measures to the structure of HKMMS subject to results of condition survey Provide tarpaulin curtain to protect the Annex Block during the construction phase Conduct detailed photographic and cartographic recording of Feature No. 11SW-A/FR218 to the satisfaction of AMO before the affected masonry work is temporarily removed for the slope works Install ground settlement markers, tilting monitoring markers and vibration monitoring points during the active construction period and 		

	 obtain readings at a daily interval Operate drilling process manually under full-time supervision of experienced works supervisor at Feature No. 11SW-A/R94 Reserve clearance distance between the proposed soil nails at Feature No. 11SW-A/R9 and the Annex Block (including the columns in front of the masonry wall) Reinstate the masonry wall of the Feature No. 11SW-A/R94 after the upgrading works Adopt Manual pit by pit excavation Adopt non-excavation type of hoardings at Feature No. 11SW-A/FR218
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Appendix C

Record of Disposal

Records of Disposal of INERT C& D Materials

Month May year 2017

GEO / CEDD Disvision:

Contract No.: GE/2013/35

Contract Title: Landslip Prevention and Mitigation Programme, 2012, Package A, Landslip Prevention and Mitigation Works.

(Inert)

Form 28A

Site Location: 1) 115W-A/FR218

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Contractor: DDF No. ¹ 17220141 17220139 17220140 17220183 17220186 17220186 17220187

Submitted by: Geotech Engineering Limited.

Signature:

Name/Post: Cyrus Li / Safety Officer

Date: 2- 6-2017

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Records of Disposal of INERT C & D Materials Month May year 2017

GEO/CEDD Disvision:

Contract No.: GE/2013/35

Contract Title: Landslip Prevention and Mitigation Programme, 2012, Package A, Landslip Prevention and Mitigation Works.

(Inert)

Form 28A

Site Location: 1) 115W-A/FR218

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Submitted by: Geotech Engineering Limited.

Signature:

Name/Post: Cyrus Li / Safety Officer

Date: 2-6-701 8

Records of Disposal of INERT C & D Materials Month May year 2017

GEO / CEDD Disvision:

GE/2013/35

Contract No.:

Contract Title: Landslip Prevention and Mitigation Programme, 2012, Package A, Landslip Prevention and Mitigation Works.

(Inert)

Form 28A

Site Location: 1) 115W-A/FR218

Total Vol. 174.24 t 165.72 t 190.91 t 199.05 t Vol. (m³)/ Wt. (t) (pplicable) (where 8.16 t 8.17 t 8.52 t 8.21 t 8.46 t 8.14 t Late Return of DDF and/or Receipt Z Z Z Z Z Z Receipt No. 170049966 170050128 170051558 170051646 170051137 170051280 Date of DDF & by Contractor submitted 24/5/2017 25/5/2017 31/5/2017 31/5/2017 31/5/2017 31/5/2017 Receipt Time of Disposal 15:48 11:39 11:53 15:21 11:37 14:06 Time of | Proportion of Truckload 3/4 3/4 3/4 3/4 3/4 Departure 11:15 15:05 11:00 14:55 11:00 13:20 Disposal | Vehicle Reg. CZ9006 EF8222 EP4618 EF8222 CZ9006 KIN4827 Š. Geotech Engineering Limited, CW-PFBP CW-PFBP CW-PFBP CW-PFBP CW-PFBP CW-PFBP Site² 23/5/2017 Date of 22/5/2017 26/5/2017 Disposal 27/5/2017 26/5/2017 27/5/2017 Contractor: DDF No.1 17220202 17220203 17220204 17220175 17220212 17220201

applicable)

(where

Wt.(t)

(m³)/

157.55 t

182.45 t

Submitted by: Geotech Engineering Limited.

Signature:

Name/Post: Cyrus Li / Safety Officer

Date: 2 - 6-701

Date: 2 - 6 - 2013

Name/Post: Cyrus Li / Safety Officer

Signature:

Submitted by: Geotech Engineering Limited.

Records of Disposal of INERT C & D Materials

Month May year 2017

Disvision: GEO / CEDD

Contract No.: GE/2013/35

Contract Title: Landslip Prevention and Mitigation Programme, 2012, Package A, Landslip Prevention and Mitigation Works,

(Inert)

Form 28A

Site Location: 1) 11SW-A/R94

Contractor: Geotech Engineering Limited.

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		Vol. (m²)/	WYT. (t)	applicable)													
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Appendix D IEC Site Audit Checklist

Ins Date Time Ins. Are PAF	RT A: ather: apperature: nidity:	Landslip Prevention and Mitigation Works at Feature Nos. 11SW-A/R94 and 11SW-A/FR218, HKMMS, Caine Lane, Mid-Levels 5 May 2017 3:30 pm ØFeature No. 11SW-A/R94 ØFeature No. 11SW-A/R94 ØHKMMS & its Annex Block GENERAL INFORMATION Sunny Fine Cloudy Ra - 28 9C High Moderate Low Strong Breeze Light Ca	ii C E C	nspected lient: R: EC: T: ontracto	CI AL AL		neering Ltd.	
PAR	IT B:	SITE AUDIT						
			Not Obs	Van	No	Follow	N/A	Photo/ Remarks
Sect	ion 1: Wat	or Quality		-		up		Remarks
1.01	Obtained	an effluent discharge license.						
1.02		of sedimentation tank.						
1.03	Channels	s, sandbags or bunds should be provided to direct surface run-off						
1.04	to sedimi	entation tanks. ckpiles of construction materials on site should be covered with		\boxtimes				
1.05	tarpaulin	or similar fabric as necessary during rainstorms.		\boxtimes				
1.00	construct	e practices should be adopted to remove rubbish and litter from ion site so as to prevent the rubbish and litter from spreading the And, It is would be cleaned the construction sites on a regular		\boxtimes				
1.06	Manholes	are adequately covered and temporarily sealed.		\boxtimes			\Box	
1.07	Some pro	cedures and equipment for rainstorm protection are provided.						-
1.08	Measures provided.	to prevent leaked oil from entering the drainage system are	\boxtimes					
1.09	Notices si not to disc	hould be posted at conspicuous locations to remind the workers charge any sewage or wastewater into the nearby environment.	\boxtimes					
Section	on 2: Air Qı	uality						
2.01	Use of reg	gular watering/tarpaulin, with coverage to reduce dust emissions sed site surfaces, particularly during dry weather.		\boxtimes				
2.02		quent watering for particularly dusty static construction area.	\boxtimes				님 -	
2.03	Dusty mat	erials transported on trucks with tarpaulin covering to and from					<u> </u>	
2.04	Hoarding a	are not less than 2.4m tall provided at areas with public access.						
2.05	Public road	d around the site entrance should be kept clean and free from						
2.06	Where pos	ssible, routing of vehicles and positioning of construction plant at the maximum possible distance from ASRs.						
2.07		covers of all dump trucks entering or leaving the site are in good	\boxtimes	_				
2.08		e emission from plant/equipment should be avoided.						
2.09	De-bagging areas durin	g, batching and mixing processes are carried out in sheltered g the use of bagged cement.						

		Not Obs.	Yes	No	Follow	N/A	Photo/ Remarks
	tion 3: Noise						. 40,110.110
3.01	All plants are well maintained and in good operating condition.		\boxtimes				
3.02	All the plants should be serviced regularly during the construction program.		\boxtimes				
3.03	Use of noise enclosure for static PME.		\boxtimes				
3.04	Use movable noise barrier only for feature no. 11SW-A/R94.	\boxtimes					
3.05	Use of noise insulating fabric for certain PME (e.g. handheld electric saw and use in designated area with noise barrier).	\boxtimes					
3.06	Idle equipment should be turned off or throttled down.		\boxtimes				
3.07	Where possible, quieter PME should be used.						
					<u></u>		
Sect	ion 4: Waste/Chemical Management						
4.01	Training of site personnel in site cleanliness and proper waste management.		\boxtimes				
4.02	Provision of sufficient waste disposal point and regular collection of waste.		\boxtimes			\Box	
4.03	Regular cleaning and maintenance for drainage systems.		\boxtimes			$\overline{\Box}$	
4.04	Proper storage and site practices to minimize the potential for damage or contamination of construction materials.		\boxtimes			\Box	
4.05	Training should be provided to workers about the concepts of site cleanliness and appropriate waste management procedures, including		\boxtimes				
4.06	waste reduction, reuse and recycle. Waste should be handled and stores well to ensure secure containment, thus minimizing the potential of pollution.						
4.07	Storage area should be provided with covers and, if necessary, water spraying system to prevent materials for wind-blown or being washed away.						
4.08	The construction waste generated on-site would be transported to the designated disposal facilities managed by EPD or CEDD.		\boxtimes				
4.09	On-site sorting of all C&D materials to inert or non-inert.	\boxtimes					
4.10	The panels have hold legible red English words and Chinese characters "CHEMMICAL WASTE" "化學廢物" note less than 60mm high on a while background.						
Sectio 5.01	on 5: Landscape & Visual Temporary hoarding would be erected along the boundary of the works site to provide some screening effect to the surrounding sensitive receivers.		\boxtimes				
Sectio	n 6: Culture Heritage						
6.01	Provide tarpaulin curtain or similar materials to protect the Annex Block (Feature No. 11SW-A/R94) during the construction phase.		\boxtimes				
6.02	Install ground settlement makers, tilting monitor makers and vibration monitoring points during the active construction period and obtain readings at a daily interval.		\boxtimes				
6.03	Operate drilling process manually under full-time supervision of experienced works supervisor at Feature No. 11SW-A/R94.	\boxtimes					
5.04	Reserve clearance distance, 600mm, between the proposed soil nails at Feature No. 11SW-A/R94 and the Annex Block (including the columns in front of the masonry wall).		\boxtimes				
3.05	Adopt manual pit by pit excavation at Feature No. 11SW-A/FR218.	\boxtimes					
5.06	Adopt non-excavation type of hoardings at Feature No. 11SW-A/FR218 between the slope and main building.		\boxtimes				
						_	

		Not Obs.	Yes	No	Follow up	N/A	Photo/ Remarks
Secti	ion 7: Others						
7.01	Are relevant Environmental Permits posted at all vehicle site entrances/exits or at a convenient location for public's information at all times?						
Rema	arks						

Glient_	ER	SSP9/IEC	ET-	Contractor	
((Tommy Poon	(Ms. Gigi Lam		A (Expris Box)	

Pro	oject:	Landslip Prevention and Mitigation Works at Feature Nos. 11SW-A/R94 and 11SW-A/FR218, HKMMS, Caine Lane, Mid-Levels		nspected	by			
Ins Da	pection te:	11 May 2017	_	Client:	•			
Tin		4:15 pm	_	ER:		ECOM		
ins Are	pection ea:	⊠Feature No. 11SW-A/R94	_					
		⊠Feature No. 11SW-A/R218		EC: ET:		COM		
		⊠HKMMS & its Annex Block	-	- · . Contracto	<i>N/.</i> r: Ge		neering Ltd.	
			_			olodi. Liigi	neering Liu.	· · · · · · · · · · · · · · · · · · ·
We	RT A: ather: nperature: nidity: d:	GENERAL INFORMATION Sunny Fine Cloudy Rai 28 C High Moderate Low Strong Breeze Light Cal	•					
PAF	RT B:	SITE AUDIT						
			No	t v.		Follow		Photo/
Sac	tion 1: Wat	or Ougliby	Obs	VAP	No	ир	N/A	Remarks
000	LIOIT I. THE	a wounty						
1.01	Obtained	d an effluent discharge license.	_		_	_		
1.02	Provision	n of sedimentation tank.					\boxtimes	
1.03								
	to sedim	s, sandbags or bunds should be provided to direct surface run-off entation tanks.		\boxtimes				
1.04	tarpaulin	ockpiles of construction materials on site should be covered with or similar fabric as necessary during rainstorms.		\boxtimes				
1.05	construct	e practices should be adopted to remove rubbish and litter from tion site so as to prevent the rubbish and litter from spreading the . And, it is would be cleaned the construction sites on a regular		\boxtimes				
1.06		s are adequately covered and temporarily sealed.		\boxtimes				
1.07	Some pro	ocedures and equipment for rainstorm protection are provided.						
1.08	Measures	s to prevent leaked oil from entering the drainage system are	\Box					
1.09	Notices s	hould be posted at conspicuous locations to remind the workers						
	HOL TO DIS	charge any sewage or wastewater into the nearby environment.					니_	
Secti	on 2: Air Q	uality						
2.01		gular watering/tarpaulin, with coverage to reduce dust emissions						
	from expo	sed site surfaces, particularly during dry weather.		\boxtimes				
2.02		quent watering for particularly dusty static construction area.		\boxtimes				
2.03	the site.	terials transported on trucks with tarpaulin covering to and from	\boxtimes					
2.04	Hoarding	are not less than 2.4m tall provided at areas with public access.		\boxtimes				
2.05	Public roa	d around the site entrance should be kept clean and free from						
2.06	should be	ssible, routing of vehicles and positioning of construction plant at the maximum possible distance from ASRs.		\boxtimes				
2.07	Mechanica services o	al covers of all dump trucks entering or leaving the site are in good onditions.	\boxtimes			П	\Box	
2.08	Dark smok	e emission from plant/equipment should be avoided.		\boxtimes				
2.09	De-baggin	g, batching and mixing processes are carried out in sheltered ng the use of bagged cement.						
	areas uulii	ig the use of pagged cement.						

Section 3: Notice 3.01 All plants are well meintained and in good operating condition. 3.02 All the plants should be serviced regularly during the construction program. 3.03 Use of notice endocurse for static PME. 3.04 Use movable notes barrier only for feature no. 115W-A/R34. 3.05 Use of notice insulating father for certain PME (e.g. handheld electric saw and use in designated area with notice barrier). 3.06 Use of notice insulating father for certain PME (e.g. handheld electric saw and use in designated area with notice barrier). 3.07 Where possible, quieter PME should be used. 3.08 Verification of sufficient waste disposal point and regular collection of waste. 3.09 Verification of sufficient waste disposal point and regular collection of waste. 3.00 Provision of sufficient waste disposal point and regular collection of waste. 4.01 Training of site personnel in alta cleanifless and proper waste management. 4.02 Provision of sufficient waste disposal point and regular collection of waste. 4.03 Regular cleaning and maintenance for drainage systems. 4.04 Proper strange and site practices to minimize the potential for damage or contamination of construction meterals. 4.05 Training should be provided to workers about the concepts of site describes and appropriate research procedures, including a cleaning should be provided by the covers and, if necessary, water spraying system to prevent materials for wind-bloom or being washed away. 4.08 The construction waste generated on-site would be transported to the designated disposal floatities managed by EPD or CEDD. 4.09 On-elle sorting of all CAD meterials to insect on non-insect. 5.01 Temporary hoarding would be erected along the boundary of the works and Chinese characters. 5.01 Temporary hoarding would be rected along the boundary of the works are to top told companies. 5.02 Install grant and self-time suspervision of experienced works supervisor at Peature No. 115W-AFR218. 5.03 Operate defining process manually under full-time suspervision of			Not Obs.	Yes	No	Follow	N/A	Photo/ Remarks
3.02 All the plants should be serviced regularly during the construction program. 3.03 Use of noise enclosure for static PME. 3.04 Use of noise insulating fathor for certain PME (e.g. handheld electric saw end use in designated area with noise barrian). 3.05 Use of noise insulating fathor for certain PME (e.g. handheld electric saw end use in designated area with noise barrian). 3.06 Ide equipment should be turned off or throtted down. 3.07 Where possible, quieter PME should be used. Section 4: Weste/Chemical Management 4.01 Training of alle personnel in also cleanliness and proper waste management. 4.02 Provision of sufficient waste disposal point and regular collection of waste. 4.03 Regular cleaning and maintenance for drainage systems. 4.04 Proper storage and site protices to minimize the potential for dismage or confamilisation of construction materials. 4.05 Training should be provided to workers about the concepts of site eleanniness and appropriate waste management procedures, holiding waste reduction, reuse and recycle. 4.08 Waste should be handled and stores well to ensure secure containment, in the minimizing the potential of politicon. 4.07 Storage area should be provided with covers and, if necessary, water appraying system to prevent instensis for wind-blown or being washed away. 4.08 The contribution waste generated no-site worked by transported to the designated disposal facilities managed by EPD or CEDD. 4.09 On-site sorting of all CAD materials to linet or non-heet. 4.10 The panels have hold legible red English words and Chainese characters "CHEMBACAL WASTE" (EMBER) for less than 60mm high on a while background. 5. Section 8: Landscape & Visual Visual Provides with the supervision of experienced works upon the construction provide some screening effect to the surrouncing sensitive inconvers. 6.02 Install ground settlement makes, stiling monitor materian department and obtain readings at a daily interval. 6.03 Operate defining process manually under filt-line supervision of e								120/110110
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Section 3: Landscape & Visual Section S: Culture Haritage Section S: Section S	3.05	esc of those insulating labile for certain FME (e.g. handheid electric saw		\boxtimes				
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Training of site personnel in site cleanliness and proper waste management.					_		67	
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Contamination of construction materials. 4.05 Tailring should be provided to workers about the concepts of site cleanliness and appropriate waste management procedures, including waste reduction, reuse and recycle. 4.06 Waste should be handled and stores well to ensure secure containment, thus minimizing the potential of pollution. 4.07 Storage area should be provided with covers and, if necessary, water spraying system to prevent materials for wind-blown or being washed away. 4.08 The construction waste generated on-site would be transported to the designated disposal facilities managed by EPD or CEDD. 4.09 On-site sorting of all C&D materials to inert or non-inert. 4.10 The panels have hold legible red English words and Chinese characters "CHEMMICAL WASTE" "上學服物" note less then 60mm high on a while background. Section 5: Landscape & Visual 5.011 Temporary hoarding would be erected along the boundary of the works site to provide some screening effect to the surrounding sensitive receivers. Section 6: Culture Heritage 6.01 Provide tarpaulin curtain or similar materials to protect the Annex Block (Feature No. 11SW-A/R94) during the active construction period and obtain readings at a daily interval. 6.02 Operate drilling process manually under full-lime supervision of experienced works supervisor at Feature No. 11SW-A/R94. 6.04 Reserve deerance distance, 600mm, between the proposed soil nails at Feature No. 11SW-A/R94 and the Annex Block (including the columns in front of the masonry wall). 6.06 Adopt non-excavation type of hoardings at Feature No. 11SW-A/FR218.	4.03	Regular cleaning and maintenance for drainage systems.		\boxtimes				
cleanliness and appropriete waste management procedures, including waste reduction, reuse and recycle. 4.06 Waste should be handled and stores well to ensure secure containment, thus minimizing the potential of pollution. 4.07 Storage area should be provided with covers and, if necessary, water spraying system to prevent materials for wind-blown or being washed away. 4.08 The construction waste generated on-site would be transported to the designated disposal facilities managed by EPD or CEDD. 4.09 On-site sorting of all C&D materials to inert or non-inert. 4.10 The panels have hold legible red English words and Chinese characters "CHEMMICAL WASTE" "仁學原榜" note less than 60mm high on a white background. Section 5: Landscape & Visual 5.01 Temporary hoarding would be erected along the boundary of the works site to provide some screening effect to the surrounding sensitive receivers. Section 6: Culture Haritage 6.01 Provide tarpaulin curtain or similar materials to protect the Annex Block (Feature No. 115W-A/R84) during the construction phase. 6.02 Install ground settlement makers, tilling monitor makers and vibration monitoring points during the active construction period and obtain readings at a daily interval. 6.03 Operate drilling process manually under full-time supervision of experienced works supervisor af Feature No. 115W-A/R84. 6.04 Reserve clearance distance, 600mm, between the proposed soil nails at Feature No. 115W-A/R84 and the Annex Block (including the columns in front of the masonry wall). 6.05 Adopt non-excevation type of hoardings at Feature No. 115W-A/FR218.	4.04	contamination of construction materials.		\boxtimes				
### Waste should be handled and stores well to ensure secure containment, thus minimizing the potential of pollution. ### Storage area should be provided with covers and, if necessary, water spraying system to prevent materials for wind-blown or being washed away. ### 4.08 The construction waste generated on-site would be transported to the designated disposal facilities managed by EPD or CEDD. ### 4.09 On-site sorting of all C&D materials to inert or non-inert. ### CHEMINCAL WASTE* */L#S### note less than 60mm high on a while background. ### Section 5: Landscape & Visual ### 5.01 Temporary hoarding would be erected along the boundary of the works site to provide some screening effect to the surrounding sensitive ### Section 6: Culture Haritage ### 6.01 Provide tarpsulin curtain or similar materials to protect the Annex Block (Feature No. 115W-A/R84) during the construction phase. ### 6.02 Install ground settlement makers, tilling monitor makers and vibration monitoring points during the active construction period and obtain readings at a delly interval. ### 6.03 Operate drilling process manually under full-time supervision of experienced works supervisor af Feature No. 115W-A/R84. ### 6.04 Reserve clearance distance, 600mm, between the proposed soil nails at Feature No. 115W-A/R84 and the Annex Block (including the columns in front of the masonry wall). #### 6.06 Adopt non-excevation type of hoardings at Feature No. 115W-A/F8218.	4.05	cleanliness and appropriate waste management procedures, including		\boxtimes				
### Storage area should be provided with covers and, if necessary, water spraying system to prevent materials for wind-blown or being washed away. ### 4.08 The construction waste generated on-site would be transported to the designated disposal facilities managed by EPD or CEDD. ### 4.09 On-site sorting of all C&D materials to inert or non-Inert. ### 5.01 The panels have hold legible red English words and Chinese characters "CHEMMICAL WASTE" "LARINNO" note less than 60mm high on a white background. ### 5.01 Temporary hoarding would be erected along the boundary of the works site to provide some screening effect to the surrounding sensitive receivers. ### 5.01 Provide tarpsulin curtain or similar materials to protect the Annex Block (Feature No. 115W-A/R94) during the construction phase. ### 6.01 Provide tarpsulin curtain or similar materials to protect the Annex Block (Feature No. 115W-A/R94) during the active construction phase. ### 6.02 Install ground settlement makers, tilting monitor makers and vibration monitoring points during the active construction period and obtain readings at a daily interval. ### 6.03 Operate drilling process manually under full-time supervision of experienced works supervisor at Feature No. 115W-A/R94. ### 6.04 Reserve clearance distance, 600mm, between the proposed soil nails at Feature No. 115W-A/R94 and the Annex Block (including the columns in front of the masonry wall). ### 6.06 Adopt non-excavation type of hoardings at Feature No. 115W-A/R218.	4.06	Waste should be handled and stores well to ensure secure containment		\boxtimes				
designated disposal facilities managed by EPD or CEDD. 4.09 On-site sorting of all C&D materials to inert or non-inert. 4.10 The panels have hold legible red English words and Chinese characters "CHEMMICAL WASTE" "仁學廢物" note less than 60mm high on a white background. Section 5: Landscape & Visual 5.01 Temporary hoarding would be erected along the boundary of the works site to provide some screening effect to the surrounding sensitive receivers. Section 6: Culture Heritage 6.01 Provide tarpaulin curtain or similar materials to protect the Annex Block (Feature No. 11SW-A/R94) during the construction phase. 6.02 Install ground settlement makers, tilting monitor makers and vibration monitoring points during the active construction period and obtain readings at a daily interval. 6.03 Operate drilling process manually under full-time supervision of experienced works supervisor at Feature No. 11SW-A/R94. 6.04 Reserve clearance distance, 600mm, between the proposed soil nails at Feature No. 11SW-A/R94 and the Annex Block (including the columns in front of the masonry wall). 6.05 Adopt non-excavation type of hoardings at Feature No. 11SW-A/FR218.	4.07	Storage area should be provided with covers and if necessary water						
### Annex Block (Feature No. 11SW-A/R94) during the active construction period and obtain readings at a daily interval. 6.04 Reserve clearance distance, 600mm, between the proposed soil nails at Feature No. 11SW-A/R94 and the Annex Block (including the columns in front of the masonry wall). 6.05 Adopt non-excavation type of hoardings at Feature No. 11SW-A/FR218.	4.08	The construction waste generated on-site would be transported to the designated disposal facilities managed by EPD or CEDD.		\boxtimes			П	
A.10 The panels have hold legible red English words and Chinese characters "CHEMMICAL WASTE" "化學廢物" note less than 60mm high on a while background. **Section 5: Landscape & Visual 5.01 Temporary hoarding would be erected along the boundary of the works site to provide some screening effect to the surrounding sensitive receivers. **Section 6: Culture Heritage** 6.01 Provide tarpaulin curtain or similar materials to protect the Annex Block (Feature No. 11\$W-A/R94) during the construction phase. 6.02 Install ground settlement makers, tilling monitor makers and vibration monitoring points during the active construction period and obtain readings at a daily interval. 6.03 Operate drilling process manually under full-time supervision of experienced works supervisor at Feature No. 11\$W-A/R94. 6.04 Reserve clearance distance, 600mm, between the proposed soil nails at Feature No. 11\$W-A/R94 and the Annex Block (including the columns in front of the masonry wall). 6.05 Adopt non-excavation type of hoardings at Feature No. 11\$W-A/FR218.	4.09	On-site sorting of all C&D materials to inert or non-inert.	П	\square				
Section 5: Landscape & Visual 5.01 Temporary hoarding would be erected along the boundary of the works site to provide some screening effect to the surrounding sensitive receivers. Section 6: Culture Heritage 6.01 Provide tarpaulin curtain or similar materials to protect the Annex Block (Feature No. 11SW-A/R94) during the construction phase. 6.02 Install ground settlement makers, tilting monitor makers and vibration monitoring points during the active construction period and obtain readings at a daily interval. 6.03 Operate drilling process manually under full-time supervision of experienced works supervisor at Feature No. 11SW-A/R94. 6.04 Reserve clearance distance, 600mm, between the proposed soil nails at Feature No. 11SW-A/R94 and the Annex Block (including the columns in front of the masonry wall). 6.05 Adopt non-excavation type of hoardings at Feature No. 11SW-A/FR218.	4.10	The panels have hold legible red English words and Chinese characters "CHEMMICAL WASTE" "什些联场" note less than 60mm high on a while						
5.01 Temporary hoarding would be erected along the boundary of the works site to provide some screening effect to the surrounding sensitive receivers. Section 6: Culture Heritage 6.01 Provide tarpaulin curtain or similar materials to protect the Annex Block (Feature No. 11SW-A/R94) during the construction phase. 6.02 Install ground settlement makers, tilting monitor makers and vibration monitoring points during the active construction period and obtain readings at a daily interval. 6.03 Operate drilling process manually under full-time supervision of experienced works supervisor at Feature No. 11SW-A/R94. 6.04 Reserve clearance distance, 600mm, between the proposed soil nails at Feature No. 11SW-A/R94 and the Annex Block (including the columns in front of the masonry wall). 6.05 Adopt non-excavation type of hoardings at Feature No. 11SW-A/FR218.		background.					_	
6.01 Provide tarpaulin curtain or similar materials to protect the Annex Block (Feature No. 11SW-A/R94) during the construction phase. 6.02 Install ground settlement makers, tilting monitor makers and vibration monitoring points during the active construction period and obtain readings at a daily interval. 6.03 Operate drilling process manually under full-time supervision of experienced works supervisor at Feature No. 11SW-A/R94. 6.04 Reserve clearance distance, 600mm, between the proposed soll nails at Feature No. 11SW-A/R94 and the Annex Block (including the columns in front of the masonry wall). 6.05 Adopt manual pit by pit excavation at Feature No. 11SW-A/FR218.		Temporary hoarding would be erected along the boundary of the works site to provide some screening effect to the surrounding sensitive		\boxtimes				
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6.02 Install ground settlement makers, tilting monitor makers and vibration monitoring points during the active construction period and obtain readings at a daily interval. 6.03 Operate drilling process manually under full-time supervision of experienced works supervisor at Feature No. 11SW-A/R94. 6.04 Reserve clearance distance, 600mm, between the proposed soil nails at Feature No. 11SW-A/R94 and the Annex Block (including the columns in front of the masonry wall). 6.05 Adopt manual pit by pit excavation at Feature No. 11SW-A/FR218.	6.01	Provide tarpaulin curtain or similar materials to protect the Annex Block (Feature No. 11SW-A/R94) during the construction phase.		\boxtimes	П	П		
at a daily interval. Operate drilling process manually under full-time supervision of experienced works supervisor at Feature No. 11SW-A/R94. Reserve clearance distance, 600mm, between the proposed soil nails at Feature No. 11SW-A/R94 and the Annex Block (including the columns in front of the masonry wall). Adopt manual pit by pit excavation at Feature No. 11SW-A/FR218.	6.02	Install ground settlement makers, tilting monitor makers and vibration		_				
6.04 Reserve clearance distance, 600mm, between the proposed soil nails at Feature No. 11SW-A/R94 and the Annex Block (including the columns in front of the masonry wall). 6.05 Adopt manual pit by pit excavation at Feature No. 11SW-A/FR218.	6.03	at a daily interval. Operate drilling process manually under full-time supervision of experienced	\boxtimes					
6.05 Adopt manual pit by pit excavation at Feature No. 11SW-A/FR218. 6.06 Adopt non-excavation type of hoardings at Feature No. 11SW-A/FR218	6.04	Reserve clearance distance, 600mm, between the proposed soll nails at Feature No. 11SW-A/R94 and the Annex Block (including the columns in		\boxtimes				
6.06 Adopt non-excavation type of hoardings at Feature No. 11SW-A/FR218	6.05	Adopt manual pit by pit excavation at Feature No. 11SW-A/FR218.	\boxtimes					
	6.06	Adopt non-excavation type of hoardings at Feature No. 11SW-A/FR218 between the slope and main building.		\boxtimes				

	•	Not Obs.	Yes	No	Follow up	N/A	Photo/ Remarks
Secti 7.01	ion 7: Others Are relevant Environmental Permits posted at all vehicle site entrances/exits or at a convenient location for public's information at all times?		\boxtimes				
Rem	arks						
NIL							

-Client-	ER	EMPD/IEC	ET	Contractor
()	(Tommy Poon)	(Ms. Gigi Lam		(Prancis Rec.)

Pro	oject:	Landslip Prevention and Mitigation Works at Feature Nos. 11SW- ject: A/R94 and 11SW-A/FR218, HKMMS, Caine Lane, Mid-Levels				Inspected by						
Ins	spection ite:	18 May 2017				•						
	ne:	3:30 pm				_	Client: ER:	_	CEDD			
	spection ea:	⊠Feature No. 1	1SW-A/R94			_			ECOM			
		⊠Feature No. 1					EC: ET:		ECOM			
		⊠HKMMS & its				_	= r : Contracte	_ <i>N</i>	A eotech Engir	anning I to		
						`		JI,	eolech Engli	leering Ltd	<u>. </u>	
PA	RT A:	GENERAL INF	ORMATION									
We	ather:	Sunny	Fine	Cloudy	Ra	ainy						
	nperature:	~ 24	°C									
Hur Win	nidity:	High	Moderate	Low								
AARI		Strong	✓ Breeze	Light	Ca	ilm						
PAF	RT B:	SITE AUDIT		_								
						No	t ,,		Follow		Di	hoto/
Sec	tion 1: Wat	er Quality				Obs	VA	No	up	N/A		marks
		or quanty										
1.01	Obtained	d an effluent discha	arge license.									
1.02		n of sedimentation								\boxtimes		
							\boxtimes					
1.03	to sedimentation tanks.				\boxtimes							
1.04	Open sto tarpaulin	Open stockpiles of construction materials on site should be covered with tarpaulin or similar fabric as necessary during rainstorms.				\boxtimes						
1.05	1.05 Good site practices should be adopted to remove rubbish and littles from						Ξ.					
construction site so as to prevent the rubbish and litter from spreading the site area. And, it is would be cleaned the construction sites on a regular		لــا	\boxtimes									
1.06	basis. Manholes	s are adequately co	overed and temporari	ly sealed.			K71					
1.07	Some pro	ocedures and equip	oment for rainstorm p	rotection are provi	hahi		\boxtimes					
1.08				•			\boxtimes					
1.00	provided.		ed oil from entering							\boxtimes		
1.09	Notices si	hould be posted at charge any sewage	t conspicuous locations or wastewater into t	ons to remind the	workers		\boxtimes					
		, and a second	The second secon	no nearby environ	men.	I			ш			
Section	on 2: Air Q	uality										
2.01	Use of reg	gular watering/tarp	aulin, with coverage	to reduce dust en	nissions			_				
2.02	from expo	sed site surfaces,	particularly during dry particularly dusty stat	/ weather.			\boxtimes					
2.03	Dusty mat the site.	terials transported	on trucks with tarpai	ulin covering to a	nd from	\boxtimes						
2.04	Hoarding a	are not less than 2.	.4m tall provided at a	reas with public ac	ccess.							
2.05	Public roa	d around the site	entrance should be I	kept clean and fre	e from][]			
2.06	Where pos	ssible, routing of v	ehicles and position	ing of construction								
2.07	snould be	at the maximum po	ossible distance from	ASRs.	-		\boxtimes					
	services co	onditions.	p trucks entering or le		in good	X						
2.08	Dark smok	e emission from pl	ant/equipment should	be avoided.			\boxtimes					
2.09	De-bagging	g, batching and m	ixing processes are	carried out in sh	eltered					<u> </u>		
	GIGGO GUTIII	ia me nae oi badde	ou cement.				\boxtimes					

		Not Obs.	Yes	No	Follow	N/A	Photo/ Remarks
	tion 3: Noise						(10)114.770
3.01	All plants are well maintained and in good operating condition.		\boxtimes				
3.02	r will be plante should be serviced regularly during the construction program.		\boxtimes				-
3.03	Use of noise enclosure for static PME.		\boxtimes				
3.04	Use movable noise barrier only for feature no. 11SW-A/R94.		\boxtimes				
3.05	Use of noise insulating fabric for certain PME (e.g. handheld electric saw and use in designated area with noise barrier).		\boxtimes				
3.06	Idle equipment should be turned off or throttled down.		\boxtimes				
3.07	Where possible, quieter PME should be used.					\boxtimes	
			_			البك	
Sect	ion 4: Waste/Chemical Management						
4.01	Training of site personnel in site cleanliness and proper waste management.		\boxtimes				
4.02	Provision of sufficient waste disposal point and regular collection of waste.		\boxtimes				
4.03	Regular cleaning and maintenance for drainage systems.		\boxtimes				
4.04	Proper storage and site practices to minimize the potential for damage or contamination of construction materials.		\boxtimes				
4.05	Training should be provided to workers about the concepts of site cleanliness and appropriate waste management procedures, including		\boxtimes				
4.06	waste reduction, reuse and recycle. Waste should be handled and stores well to ensure secure containment, thus minimizing the potential of pollution.		\boxtimes				
4.07	Storage area should be provided with covers and, if necessary, water spraying system to prevent materials for wind-blown or being washed away.						
4.08	The construction waste generated on-site would be transported to the designated disposal facilities managed by EPD or CEDD.		\boxtimes				
4.09	On-site sorting of all C&D materials to inert or non-inert.		\boxtimes				
4.10	The panels have hold legible red English words and Chinese characters "CHEMMICAL WASTE" "化學廢物" note less than 60mm high on a while background.					□ .	
Section 5.01	on 5: Landscape & Visual Temporary hoarding would be erected along the boundary of the works site to provide some screening effect to the surrounding sensitive receivers.						
Section	n 6: Culture Heritage						
6.01	Provide tarpaulin curtain or similar materials to protect the Annex Block (Feature No. 11SW-A/R94) during the construction phase.		\boxtimes				
6.02	Install ground settlement makers, tilting monitor makers and vibration monitoring points during the active construction period and obtain readings at a delivistation.		\boxtimes				
6.03	at a daily interval. Operate drilling process manually under full-time supervision of experienced works supervisor at Feature No. 11SW-A/R94.		\boxtimes			_	
6.04	Reserve clearance distance, 600mm, between the proposed soil nails at Feature No. 11SW-A/R94 and the Annex Block (including the columns in		\boxtimes				
6.05	front of the masonry wall). Adopt manual pit by pit excavation at Feature No. 11SW-A/FR218.	\boxtimes					
6.06	Adopt non-excavation type of hoardings at Feature No. 11SW-A/FR218 between the slope and main building.						

	±5.	Not Obs.	Yes	No	Follow up	N/A	Photo/ Remarks
Secti	ion 7: Others						
7.01	Are relevant Environmental Permits posted at all vehicle site entrances/exits or at a convenient location for public's information at all times?		\boxtimes				
						35	
Rema	arks						
NIL							

-Client	ER	ENPO/IEC	-67-	Contractor
()	(Tommy Poon)	(Ms. Gigli Lam)	()	(Prancis Rao)

Proj	Landslip Prevention and Mitigation Works at Feature Nos. 11SW- oject: A/R94 and 11SW-A/FR218, HKMMS, Caine Lane, Mid-Levels				Inspected by						
insp Date	ection e:	25 May 2017	Client:		•	CEDD .					
Time		3:30 pm	-	ER;							
Insp Area	ection a:	⊠Feature No. 11SW-A/R94	_	IEC:		ECOM		-			
		⊠Feature No. 11SW-A/R218		ET:	N			<u> </u>			
		⊠HKMMS & its Annex Block	_	Contract		eotech Engi	neering Ltd.				
PAR	T A:	GENERAL INFORMATION									
Wea			ainy								
	perature:	~ 23 °C									
Hum Wind	•	High ✓ Moderate Low Strong ✓ Breeze Light Ca	اسد								
			im								
PAR	TB:	SITE AUDIT									
			Ne	YA!	s No	Follow	N/A	Photo/			
Sect	ion 1: Wat	er Quality)s.		цр		Remarks			
1.01	Obtained	d an effluent discharge license.	г	7 —							
1.02	Provisio	n of sedimentation tank.									
1.03	Channel	s, sandbags or bunds should be provided to direct surface run-off	L.				Ш.				
	to sedim	entation tanks.									
1.04	1.04 Open stockpiles of construction materials on site should be covered with tarpaulin or similar fabric as necessary during rainstorms.										
1.05 Good site practices should be adopted to remove rubbish and litter from construction site so as to prevent the rubbish and litter from spreading the											
site area. And, it is would be cleaned the construction sites on a regular basis.											
1.06	Manholes	s are adequately covered and temporarily sealed.						· · · · · · · · · · · · · · · · · · ·			
1.07	Some pro	ocedures and equipment for rainstorm protection are provided.									
1.08	Measure: provided.	s to prevent leaked oil from entering the drainage system are		- —			⊠ -				
1.09	Notices s	should be posted at conspicuous locations to remind the workers	_					- .			
	not to dis	charge any sewage or wastewater into the nearby environment.	<u></u>				Ц_				
Postis	2. Ain O	in a second									
	on 2: Air Q	•									
2.01	from expo	gular watering/tarpaulin, with coverage to reduce dust emissions osed site surfaces, particularly during dry weather.									
2.02	Use of fre	equent watering for particularly dusty static construction area.					П	·			
2.03	Dusty ma	terials transported on trucks with tarpaulin covering to and from	\boxtimes								
2.04		are not less than 2.4m tall provided at areas with public access.									
2.05	Public roa	ad around the site entrance should be kept clean and free from									
2.06	Where po	essible, routing of vehicles and positioning of construction plant at the maximum possible distance from ASRs.									
2.07	Mechanic	al covers of all dump trucks entering or leaving the site are in good	\boxtimes	_]						
2.08	Services of Dark smol	conditions. ke emission from plant/equipment should be avoided.]		<u> </u>				
2.09		ng, batching and mixing processes are carried out in sheltered					Ц				
	areas duri	ng the use of bagged cement.		\boxtimes							

		Not Obs.	Yes	No	Follow	N/A	Photo/ Remarks
	tion 3: Noise						TOMBING
3.01	All plants are well maintained and in good operating condition.		\boxtimes				
3.02	All the plants should be serviced regularly during the construction program.		\boxtimes				
3.03	and a maintain the state of the first.		\boxtimes				
3.04	Use movable noise barrier only for feature no. 11SW-A/R94.		\boxtimes				
3.05	Use of noise insulating fabric for certain PME (e.g. handheld electric saw and use in designated area with noise barrier).		\boxtimes				
3.06	idle equipment should be turned off or throttled down.		\boxtimes				
3.07	Where possible, quieter PME should be used.					\boxtimes	
Seci	ion 4: Waste/Chemical Management						
4.01	Training of site personnel in site cleanliness and proper waste management.		\boxtimes				
4.02	Provision of sufficient waste disposal point and regular collection of waste.		\boxtimes				
4.03	Regular cleaning and maintenance for drainage systems.		\boxtimes		П		
4.04	Proper storage and site practices to minimize the potential for damage or contamination of construction materials.		\boxtimes		П		
4.05	Training should be provided to workers about the concepts of site cleanliness and appropriate waste management procedures, including		\boxtimes				
4.06	waste reduction, reuse and recycle. Waste should be handled and stores well to ensure secure containment, thus minimizing the potential of pollution.		\boxtimes				
4.07	Storage area should be provided with covers and, if necessary, water spraying system to prevent materials for wind-blown or being washed away.					\boxtimes	
4.08	The construction waste generated on-site would be transported to the designated disposal facilities managed by EPD or CEDD.		\boxtimes				
4.09	On-site sorting of all C&D materials to inert or non-inert.		\boxtimes				
4.10	The panels have hold legible red English words and Chinese characters "CHEMMICAL WASTE" "化學廢物" note less than 60mm high on a while background.						
Section 5.01	on 5: Landscape & Visual Temporary hoarding would be erected along the boundary of the works site to provide some screening effect to the surrounding sensitive receivers.		\boxtimes				
Section	n 6: Culture Heritage						
6.01	Provide tarpaulin curtain or similar materials to protect the Annex Block (Feature No. 11SW-A/R94) during the construction phase.		\boxtimes				
6.02	install ground settlement makers, tilting monitor makers and vibration monitoring points during the active construction period and obtain readings		\boxtimes				
6.03	at a daily interval. Operate drilling process manually under full-time supervision of experienced works supervisor at Feature No. 11SW-A/R94.		\boxtimes				
6.04	Reserve clearance distance, 600mm, between the proposed soil nails at Feature No. 11SW-A/R94 and the Annex Block (including the columns in front of the masonry wall).		\boxtimes				
6.05	Adopt manual pit by pit excavation at Feature No. 11SW-A/FR218.		\boxtimes				
6.06	Adopt non-excavation type of hoardings at Feature No. 11SW-A/FR218 between the slope and main building.		\boxtimes				

		Not Obs.	Yes	No	Follow up	N/A	Photo/ Remarks
Secti	on 7: Others						
7.01	Are relevant Environmental Permits posted at all vehicle site entrances/exits or at a convenient location for public's information at all times?		\boxtimes				
Rema	arks						
NIL							

Client	ER	ENPO/IEC	-E7-	Contractor
((Tommy Poon)	(Ms. Gigi Lam)	()	(Francis Bao)