

JOB NO.: TCS00814/15

EP-502/2015/A Operation of the Existing Tai Lam Explosives Magazine at Tai Shu Ha, Yuen Long for Liantang/Heung Yuen Wai Boundary Control Point Project

MONTHLY ENVIRONMENTAL MONITORING AND AUDIT (EM&A) REPORT – October 2018

PREPARED FOR DRAGAGES HONG KONG LIMITED

Date	<b>Reference No.</b>	<b>Prepared By</b>	Certified By
9 November 2018	TCS00814/15/600/R0067v1	A	Am
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Ben Tam Tam Tak Wing (Environmental Consultant) (Environmental Team Leader)

Version	Date	Remarks
1	9 November 2018	First Submission



Dragages Hong Kong Limited 3/F, Island Place Tower 510 King's Road North Point Hong Kong Your reference:

Our reference:

HKDHKL01/50/105369

Date: 9 November 2018

Attention: Mr Simon Wong

BY EMAIL & POST (email: simon.wong@dragageshk.com)

Dear Sirs

Contract No.: CV/2012/08 Liantang / Heung Yuen Wai Boundary Control Point Site Formation and Infrastructure Works – Contract 2 Consultancy Agreement No. CV/2012/08-CA031 – Independent Environmental Checker Services for Explosives Magazine at Tai Shu Ha Monthly EM&A Report for October 2018

We refer to email of 9 November 2018 attaching a Monthly EM&A Report for October 2018 prepared by the Environmental Team (ET) for the captioned project.

We have no comment and hereby verify the captioned report in accordance with Clause 3.2 of the Environmental Permit no. EP-502/2015/A.

Please do not hesitate to contact the undersigned on 2618 2831 should you have any queries.

Yours faithfully ANEWR CONSULTING LIMITED

Adi Lee Independent Environmental Checker

LYMA/csym

cc AUES – Mr Ben Tam (email: bentam@fordbusiness.com)





#### **EXECUTIVE SUMMARY**

- ES.01 The existing Tai Lam Explosives Magazine (TLEM) has been licensed and was in used by the MTR Corporation Limited (MTRC) for the construction of the Hong Kong Section of Guangzhou-Shenzhen-Hong Kong Express Rail Link (XRL) until end of February 2016, under Environmental Permit No. EP-349/2009/L, being used by the MTR XRL 824 Contractor.
- ES.02 The TLEM was handed over to Dragages Hong Kong Limited (hereinafter referred as Dragages or "permit holder") in early March 2016 and start operating for storage the explosives for tunnel works of CEDD Contract CV/2012/08 Liantang/Heung Yuen Wai Boundary Control Point and Associated Works Contract 2 (hereinafter referred as "the Project"). Operation of TLEM is a Designated Project to be implemented under Environmental Permit number EP-502/2015/A (hereinafter referred as "the EP-502/2015/A" or "the EP").
- ES.03 Dragages Hong Kong Limited has appointed Action-United Environmental Services and Consulting (AUES) as the independent Environmental Team (ET) to implement the relevant EM&A program.
- ES.04 There are three phases in this project, operation, decommissioning and completion of project phase. During the operation phase no noise, air quality, water quality and ecological monitoring is required according to the EP requirement.
- ES.05 Due to the blasting work for Liantang/Heung Yuen Wai Boundary Control Point Project Contract 2 was completed on 15 August 2017. The Tai Shu Ha Magazine was closed after 17 August 2017. Decommissioning phase was commenced in mid of November 2017. But due to the construction programme arrangement, the decommission works was idled until 21 January 2018 and completed at the end of March 2018.
- ES.06 After the decommission works of TSH magazine was completed, reinstatement planting works was commenced on 23 April 2018 according to the *XRL EIA Vegetation Survey Report for Tai Shu Ha Road West* and the *Tree Planting and Landscape Plan TLP-10: Works in Yuen Long District (Tai Shu Ha)* (Completion of Project Phase).
- ES.07 This is the 32<sup>nd</sup> Environmental Monitoring and Audit Monthly Report covering the period from 1 to 31 October 2018 (the Reporting Period).

#### **ENVIRONMENTAL MONITORING AND AUDIT ACTIVITIES**

ES.08 Environmental monitoring activities under the EM&A program in this Reporting Month are summarized in the following table.

Issues	<b>Environmental Monitoring Parameters / Inspection</b>	Occasions
Inspection / Audit	ET Monthly Environmental Site Inspection	1
Inspection / Audit	IEC Monthly Environmental Site Audit	1

#### **ENVIRONMENTAL COMPLAINT**

ES.09 No environmental complaint was recorded or received in this Reporting Month. The statistics of environmental complaint are summarized in the following table.

Depenting Devied	Environmental Complaint Statistics		
<b>Reporting Period</b>	Frequency	Cumulative	Complaint Nature
Since the project commencement	0	0	NA
October 2018	0	0	NA

#### NOTIFICATION OF SUMMONS AND SUCCESSFUL PROSECUTIONS

ES.10 No environmental summons or successful prosecutions were recorded in this Reporting Month. The statistics of environmental complaint are summarized in the following tables.



Departing Deviad	Environmental Summons Statistics		
Reporting Period	Frequency	Cumulative	Complaint Nature
Since the project commencement	0	0	NA
October 2018	0	0	NA

Bononting Bonied	Environmental Prosecution Statistics		
Reporting Period	Frequency	Cumulative	<b>Complaint Nature</b>
Since the project commencement	0	0	NA
October 2018	0	0	NA

#### **Reporting Change**

ES.11 There are no reporting changes in this Reporting Month.

#### SITE INSPECTION BY EXTERNAL PARTIES

ES.12 No site inspection was undertaken by external parties i.e. EPD or AFCD in this Reporting Month.

#### **FUTURE KEY ISSUES**

ES.13 Ecological impact is the key environmental issues during the completion of project phase. The permit holder should follow the implementation schedule to provide proper mitigation measures to maintain the good practice of disposal of waste, control of water quality and noise issue. Moreover, mitigation measures to avoid ingress of surface runoff into nearby water bodies and the protection off the existing tree from the site should be properly maintained.



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#### 1 INTRODUCTION

#### **1.1 PROJECT BACKGROUND**

- 1.1.1 The existing Tai Lam Explosives Magazine (TLEM) has been licensed and was in used by the MTR Corporation Limited (MTRC) for the construction of the Hong Kong Section of Guangzhou-Shenzhen-Hong Kong Express Rail Link (XRL) until end of February 2016, under Environmental Permit No. EP-349/2009/L, being used by the MTR XRL 824 Contractor.
- 1.1.2 The TLEM was handed over to Dragages Hong Kong Limited (hereinafter referred as Dragages or "permit holder") in early March 2016 and start operating for storage the explosives for tunnel works of CEDD Contract CV/2012/08 Liantang/Heung Yuen Wai Boundary Control Point and Associated Works Contract 2 (hereinafter referred as "the Project"). Operation of TLEM is a Designated Project to be implemented under Environmental Permit number EP-502/2015/A issued on 21 September 2016 (hereinafter referred as "the EP-502/2015/A" or "the EP").
- 1.1.3 The Project is located at the existing TLEM in Tai Shu Ha (Land Allocation GLA-TYL 1288), Yuen Long District, New Territories. The location and site plan of the Project are shown in *Appendix A*. The existing TLEM is composed of the following components:
  - Two stores each with a capacity of 400 kg explosives;
  - Secure fence;
  - CCTV system;
  - Guard house; and
  - Street fire hydrant water tank (245 m3) and 2 pumps.
- 1.1.4 Action-United Environmental Services & Consulting (hereinafter referred as "AUES") was appointed by Dragages as an Environmental Team (hereinafter referred as "the ET") to implement the relevant EM&A program in accordance with the EM&A Manual, as well as the associated duties.
- 1.1.5 This is the 32<sup>nd</sup> Monthly EM&A Report presenting the monitoring results and inspection findings for the reporting period from 1 to 31 October 2018.

#### **1.2 REPORT STRUCTURE**

1.2.1 The Monthly Environmental Monitoring and Audit (EM&A) Report is structured into the following sections:-

Section 1IntroductionSection 2PROJECT ORGANIZATION AND ENVIRONMENTAL SUBMISSIOSection 3SUMMARY OF MONITORING REQUIREMENTS	
SECTION 3 SUMMARY OF MONITORING REQUIREMENTS	)N
SECTION 4 WASTE MANAGEMENT	
SECTION 5 SITE INSPECTIONS	
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#### 2 PROJECT ORGANIZATION AND ENVIRONMENTAL SUBMISSION

#### 2.1 PROJECT ORGANIZATION AND MANAGEMENT STRUCTURE

2.1.1 Organization structure of relevant parties involved in the EM&A process and the organizational structure of the organizations responsible for implementing the EM&A program are shown in *Appendix B*.

#### 2.2 CONSTRUCTION PROGRESS

- 2.2.1 In the Reporting Period, the major construction activity conducted under the Contract is summarized in below.
  - Reinstatement planting works

#### 2.3 SUMMARY OF ENVIRONMENTAL SUBMISSIONS

2.4.1 Summary of the relevant permits, licences, and/or notifications on environmental protection for this Project in this Reporting Month is presented in *Table 2-1*.

#### Table 2-1 Status of Environmental Licenses and Permits

Item	Description	License/Permit Status
1	Environmental permit	Application date: 26/08/2016
	(EP: EP-502/2015/A)	Date approved: 21/9/2016
2	Air pollution Control (Construction Dust) Regulation	Ref No.: 430503
3	Discharge License	Nil
4	Registered chemical waste producer	Nil
5	Billing Account for Disposal of Construction Waste	Account No. 7019105

2.4.2 In accordance with the EP No. EP-502/2015/A Condition 3.1, Project Environmental Monitoring and Audit (EM&A) Manual has been submitted to EPD before the commencement of using the magazine.



#### **3** SUMMARY OF IMPACT MONITORING REQUIREMENT

#### 3.1 GENERAL

3.1.1 The Environmental Monitoring and Audit requirements are set out in the EM&A manual. Environmental issue such as ecological impact was identified as the key issues and no air or noise monitoring is required during the completion of project phase of the Project.

#### 3.2 MONITORING PARAMETERS

- 3.2.1 The EM&A programmes of completion of project phase phase shall cover the following environmental issues:
  - Ecological impact
- 3.2.2 A summary of the EM&A activities is presented in *Table 3-1* below

 Table 3-1
 Summary of EM&A Requirements

Environmental Issue	EM&A Activities	
Ecological impact	<ul> <li>To restore the habitat back to borrow area reinstatement plantation, as it was prior to the construction of the TLEM for the MTRC's use.</li> <li>To ensure the proposed mitigation recommended in the approved XRL EIA for loss of green areas affected by the XRL Project, is implemented.</li> </ul>	



#### 4 WASTE MANAGEMENT

#### 4.1 GENERAL WASTE MANAGEMENT

- 4.1.1 Waste management was carried out by an on-site Environmental Officer or an Environmental Supervisor from time to time. The effective management of waste arising during the decommissioning phase will be monitored through the site audit programme. The aims of the waste audit are:
  - To ensure the waste arising from the works are handled, stored, collected, transferred and disposed of in an environmentally acceptable manner; and
  - To encourage the reuse and recycling of material.
- 4.1.2 In addition to the site inspections, the ET shall review the documentation procedures prepared by the Waste Coordinator once a month to ensure proper records are being maintained and procedures undertaken in accordance with the Waste Management Plan.

#### 4.2 **RECORDS OF WASTE QUANTITIES**

- 4.2.1 All types of waste arising from the decommission work are classified into the following:
  - Construction & Demolition (C&D) Material;
  - Chemical Waste;
  - General Refuse; and
  - Excavated Soil.
- 4.2.2 The quantities of wastes generated under the Contract in this Reporting Period are summarized in *Tables 4-1* and *4-2* and the Monthly Summary Waste Flow Table is shown in *Appendix F*. Whenever possible, materials were reused on-site as far as practicable.

#### Table 4-1Summary of Quantities of Inert C&D Materials

Type of Waste	Quantity	Disposal Location
Reused in this Contract (Inert) (`000m <sup>3</sup> )	0	-
Reused in other Projects (Inert) (`000m <sup>3</sup> )	0	-
Disposal as Public Fill (Inert) (`000m <sup>3</sup> )	0	-

#### Table 4-2Summary of Quantities of C&D Wastes

Type of Waste	Quantity	Disposal Location
Recycled Metal (`000kg)	0	-
Recycled Paper / Cardboard Packaging (`000kg)	0	-
Recycled Plastic (`000kg)	0	-
General Refuses (`000m <sup>3</sup> )	0	-



#### 5 SITE INSPECTION

#### 5.1 **REQUIREMENTS**

5.1.1 According to the EM&A Manual, the environmental site inspection shall be formulation by ET Leader. Monthly environmental site inspections during operation and completion of project phase; weekly environmental site inspections during decommissioning phase should carry out to confirm the environmental performance.

#### 5.2 FINDINGS / DEFICIENCIES DURING THE REPORTING MONTH

- 5.2.1 In the Reporting Period, joint site inspection to evaluate site environmental performance was carried out by the ER, ET, IEC and the Contractor on 26 October 2018. No non-compliance and observation was recorded during site inspection. The checklist of the monthly inspection is shown in *Appendix C*.
- 5.2.2 Observations for the site inspections and weekly audit within this Reporting Month are summarized in *Table 5-1*.

Table 5-1Site Ob
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Date	Findings / Deficiencies	Follow-Up Status
26 October 2018	• No environmental issue was observed during the site inspection.	• Nil

- 5.2.3 The Tai Shu Ha Magazine was closed after 17 August 2017 due to the blasting work for Liantang/Heung Yuen Wai Boundary Control Point Project Contract 2 was completed on 15 August 2017. The decommissioning phase for Tai Shu Ha Magazine was scheduled in Mid of November 2017. However, due to the contractor arrangement, decommission of the magazine was idled until 21 January 2018. The actual decommission works of TSH magazine was commenced on 22 January 2018 and completed on 28 March 2018. The letter to Mines Division to return the license and stock book is shown in *Appendix E*.
- 5.2.4 Furthermore, reinstatement planting works was commenced on 23 April 2018 according to the *XRL EIA Vegetation Survey Report for Tai Shu Ha Road West* and the *Tree Planting and Landscape Plan TLP-10: Works in Yuen Long District (Tai Shu Ha)* after the decommission works was completed (Completion of Project Phase) and the site inspection frequency was resumed to once per month during the reinstatement planting period.



#### 6 ENVIRONMENTAL COMPLAINT AND NON-COMPLIANCE

#### 6.1 ENVIRONMENTAL COMPLAINT, SUMMONS AND PROSECUTION

6.1.1 No environmental complaint, summons and prosecution was received in this reporting period. The statistical summary table of environmental complaint, environmental summons and prosecution are presented in *Tables 6-1, 6-2 and 6-3* respectively.

#### Table 6-1 Statistical Summary of Environmental Complaints

Domonting Dominal	Environmental Complaint Statistics							
Reporting Period	Frequency	Cumulative	<b>Complaint Nature</b>					
Since the project commencement	0	0	NA					
October 2018	0	0	NA					

#### Table 6-2 Statistical Summary of Environmental Summons

Domonting Donio d	Environmental Summons Statistics						
Reporting Period	Frequency	Cumulative	<b>Complaint Nature</b>				
Since the project commencement	0	0	NA				
October 2018	0	0	NA				

#### Table 6-3 Statistical Summary of Environmental Prosecution

Departing Daried	<b>Environmental Prosecution Statistics</b>							
Reporting Period	Frequency	Cumulative	Complaint Nature					
Since the project commencement	0	0	NA					
October 2018	0	0	NA					



#### 7 IMPLEMENTATION STATUS OF MITIGATION MEASURES

#### 7.1 GENERAL REQUIREMENTS

- 7.1.1 The environmental mitigation measures that recommended in the Implementation Schedule for Environmental Mitigation Measures (ISEMM) in the EM&A Manual covered the issues of ecological, noise, water, hazard to life and waste and they are summarized presented in *Appendix D*.
- 7.1.2 The Permit Holder under the Project shall be implementing the required environmental mitigation measures according to the EM&A Manual as subject to the site condition. Environmental mitigation measures generally implemented by the Permit Holder in this Reporting Period are summarized in *Table 7-1*.

Table /-1	Environmental Mugation Measures							
Issues	<b>Environmental Mitigation Measures</b>							
Ecological	Protect the existing tree near the magazine site							
	• To restore the habitat back to borrow area reinstatement plantation, as it							
	was prior to the construction of the TLEM for the MTRC's use.							
	• To ensure the proposed mitigation recommended in the approved XRL							
	EIA for loss of green areas affected by the XRL Project, is implemented.							
Noise Impact	To ensure good site practices are adopted							
	<ul> <li>Noise generation minimized during decommissioning</li> </ul>							
Waste	• Avoid adverse environmental impacts related to handling and disposal of							
Management	waste							
Water quality	Minimize construction site runoff during decommissioning							
General	• The site was generally kept tidy and clean.							

 Table 7-1
 Environmental Mitigation Measures

7.1.3 Based on site inspection, it is considered that the environmental mitigation measures implemented by the Permit Holder in this Reporting Period are effective.

#### 7.2 TENTATIVE CONSTRUCTION ACTIVITIES IN THE COMING MONTH

- 7.2.1 Construction activities as undertaken in the coming month for the Contract lists below:
  - Reinstatement planting works

#### 7.3 KEY ISSUES FOR THE COMING MONTH

- 7.3.1 Key issues to be considered in the coming month for the Permit Holder include:
  - Avoid adverse environmental impacts related to handling and disposal of waste;
  - Noise generation minimized during reinstatement planting;
  - Protect the existing tree near the magazine site;
  - Housekeeping of the magazine site.
  - Fulfill all EP's requirement during reinstatement planting



#### 8 CONCLUSIONS AND RECOMMENTATIONS

#### 8.1 CONCLUSIONS

- 8.1.1 This is the 32<sup>nd</sup> monthly EM&A report, covering the construction period from 1 to 31 October 2018 (the Reporting Month).
- 8.1.2 No documented complaint, notification of summons or successful prosecution was received.
- 8.1.3 The Tai Shu Ha Magazine was closed after 17 August 2017. Due to the blasting work for Liantang/Heung Yuen Wai Boundary Control Point Project Contract 2 was completed on 15 August 2017. The decommissioning phase for Tai Shu Ha Magazine was scheduled in Mid of November 2017. However, due to the contractor arrangement, decommission of the magazine was idled until 21 January 2018. The actual decommission works of TSH magazine was commenced on 22 January 2018 and completed on 28 March 2018.
- 8.1.4 In the Reporting Period, joint site inspection to evaluate site environmental performance was carried out by the ER, ET, IEC and the Contractor on **26 October 2018**. No non-compliance and observation was recorded during site inspection. In general, the explosives magazine site is clean and tidy. The environmental performance of the Project was therefore considered satisfactory.
- 8.1.5 No site inspection was undertaken by any external party in this Reporting Month.
- 8.1.6 After the decommission works of TSH magazine was completed, reinstatement planting works was commenced on 23 April 2018 according to the *XRL EIA Vegetation Survey Report for Tai Shu Ha Road West* and the *Tree Planting and Landscape Plan TLP-10: Works in Yuen Long District (Tai Shu Ha)* (Completion of Project Phase).

#### 8.2 **RECOMMENDATIONS**

- 8.2.1 Ecological impact is the key environmental issues during the completion of project phase. The permit holder should follow the implementation schedule to provide proper mitigation measures to maintain the good practice of those environmental issues.
- 8.2.2 Moreover, mitigation measures of the protection of the existing tree from the site should be properly maintained.
- 8.2.3 To control the site performance on environmental issue, Dragages is reminded to implement the recommended environmental mitigation measures according to the Environmental Monitoring and Audit Manual.

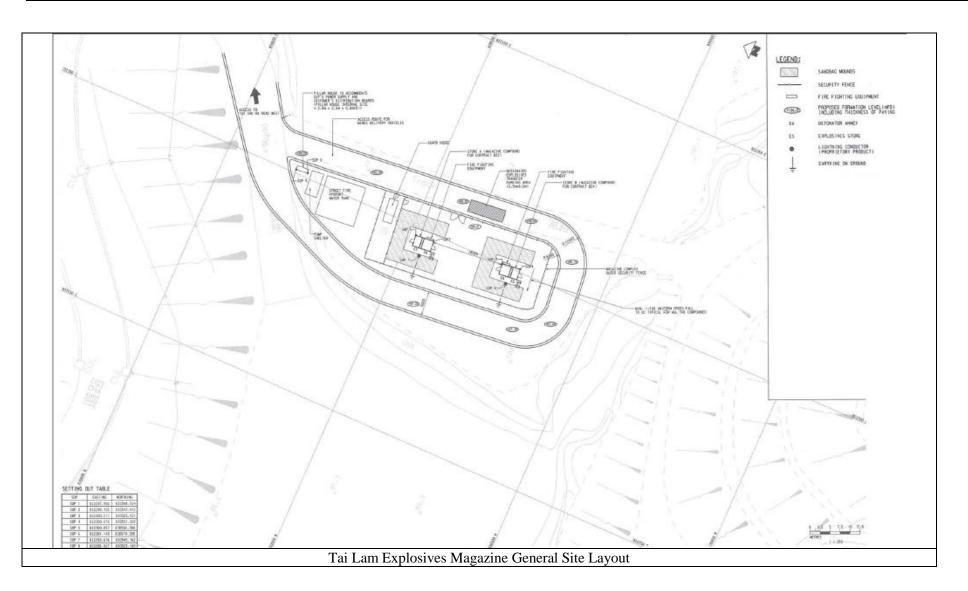


Appendix A

### LOCATION AND SITE PLAN OF THE TLEM

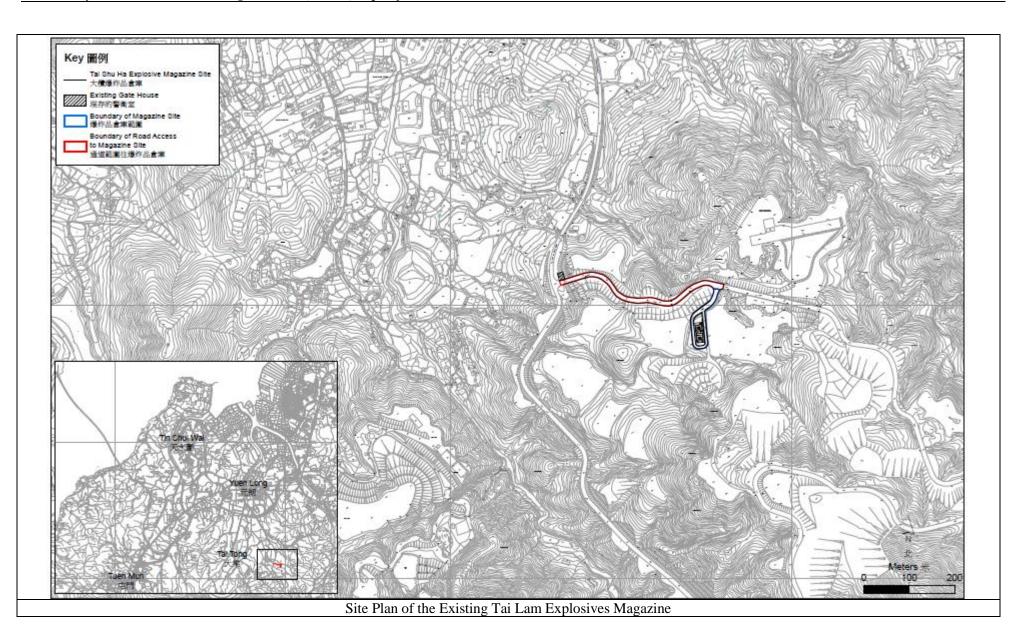


32<sup>nd</sup>Monthly Environmental Monitoring and Audit (EM&A) Report for October 2018





32<sup>nd</sup>Monthly Environmental Monitoring and Audit (EM&A) Report for October 2018





# Appendix B

### **ORGANIZATION STRUCTURE**



EPD (EIAO Authority) Project Proponent (Dragages Hong Kong Ltd.) Independent Environmental Team Environmental Checker \_\_\_\_\_ \_\_\_\_\_

Kay

---- Line of Communication



# Appendix C

## **ENVIRONMENTAL CHECKLIST FOR THE REPORTING MONTH**

Envir	onment	al Te	am –S	Site Insp	oecti	on and	d Environ	mental	Audit Ch	necklis	st			A	UEJ			
Projec	:t:	Tai	Shu Ha	of the Ex , Yuen Lo Control P	ong fo	or Lianta	Checklist No: <u>EP- 502/2015-20181026</u>											
_			-			, <b>,</b>					pected		ANewR					
Date: Time:		<b>26 C</b> 17:0	<b>October</b>	r 2018						IEC ET	;							
	onmental	-	502/20	15/A						ET AUES Contractor Dragages								
Permit	t																	
PART	-			ORMATI	ON										0			
<u>Weath</u>		nny		Fine	<b>.</b>		Cloudy		Rainy		Ten	npera	ture:	26	°C			
<u>Humidi</u> <u>Wind:</u>	- *	jn ong		Moder Breeze			Low Light		Calm									
PART		SITE A		2.0020	-		g		•••••									
Note:							lo: Non-Con			Not	Yes	No	Follow	N/A	Photo/			
	Follow L	<b>Jp</b> : Ob	servatio	ons requir	ing fo	llow-Up	actions N/	A: Not App	olicable	Obs.	100		Up	107	Remarks			
Sectio	on 1: Wat	er Qu	ıality															
1.01	Is effluer	nt discl	harge lie	cence for	the C	ontract o	obtained?			$\square$								
1.02	Is the dis	charg	e of turl	bid water	avoid	ed?				Ø								
1.03	Are there levels in			ilting facil	ities i	n the d	rainage syst	tems to re	educe SS	Ŋ								
1.04		re cha	annels,	sandbag	js or	bunds	to direct	surface r	un-off to	Ø								
1.05	Are there	e any	perime	eter chanr sing the s		rovided	at site bour	ndaries to	intercept		Ø							
1.06				ell maintai							Ø							
1.07	Are earth	nworks	s final su	urfaces we	ell cor	mpacted	or protected	1?			Ø							
1.08	Are man	holes a	adequa	tely cover	ed or	tempora	arily sealed?				Ø							
1.09	Are there	e any p	procedu	ires and e	quipn	nent for	rainstorm pro	otection?			Ø							
1.10	Are there	e any v	wheel w	ashing fa	cilities	s?				Ø								
1.11	Are there	e whee	el washi	ing facilitie	es wel	ll mainta	ined?			Ø								
1.12	Is runoff	from v	vheel w	ashing fac	cilities	avoideo	1?			Ø								
1.13	Are there	e toilet	s provic	ded on site	<del>?</del> ?						Ø							
1.14	Are toilet	s prop	erly ma	aintained?							Ø							
1.15	Are there	e any v	/ehicles	and plan	t withi	in the sit	e?				Ø							
1.16	Is the oil	leaka	ge or sp	oillage fror	n veh	icle or p	lant avoided	?			Ø							
1.17	Are there system?	e any	measu	ires to pr	event	leaked	oil from en	tering the	drainage		Ø							
1.18				es to colle	ct spi	lt cemer	t and concre	ete washin	gs during					Ø				
1.19				rided on si	te an	d located	d away from	the strean	n course?		Ø							
1.20	Is license toilet?	ed coll	ector e	mployed f	or ha	ndling th	ie waste ger	nerated fro	m mobile		Ø							
	on 2: Air		•							_		_						
2.01	vehicle e	xit poi	nt?				pressure jet			Ø								
2.02	wheels b	efore	leaving	construct	ion sit	tes?	naterials fro		odies and									
2.03	Are the e	excava	ted ma	terials spr	ayed	with wat	er during ha	ndling?			Ø							
2.04	Are stoc			ty materia	ls sp	rayed w	ith water, co	overed or	placed in		Ø							
2.05	wet or pa	aved?					maintain the				Ø							
2.06	Is the su	urface	where	any drilli	ng, c	utting, p	olishing or	breaking	operation	V								

**AUES** 

#### Environmental Team –Site Inspection and Environmental Audit Checklist

Note:	Not Obs.: Not Observed; Yes: Compliance; No: Non-Compliance; Follow Up: Observations requiring follow-Up actions N/A: Not Applicable	Not Obs.	Yes	No	Follow Up	N/A	Photo/ Remarks
2.07	continuously sprayed with water? Is the load on vehicles covered entirely by clean impervious sheeting?		V				
2.08	Is the loading of materials to a level higher than the side and tail boards during transportation by vehicles avoided?		V				
2.09	Is the road leading to the construction site within 30m of the vehicle entrance kept clear of dusty materials?		A				
2.10	Is dark smoke emission from plant/equipment avoided?	$\mathbf{N}$					
2.11	Are site vehicles travelling within the speed limit not more than 10km/hour?		V				
2.12	Are hoardings of not less than 2.4m high provided along the site boundary,					V	
2.13	which adjoins areas accessible to the public? Is open burning avoided?		V				
2.14	All non-road vehicles using on site are granted the emission labels under the regulation?		V				
Sectio	on 3: Noise						
3.01	Are noisy equipment and activities positioned as far as practicable from the sensitive receivers?	$\mathbf{\nabla}$					
3.02	Is silenced equipment adopted?	M					
3.03	Is idle equipment turned off or throttled down?	Ŋ					
3.04	Are all plant and equipment well maintained and in good condition?	M					
3.05	Are noise barriers or enclosures provided at areas where construction					M	
3.06	activities cause noise impact on sensitive receivers? Are hand held breakers fitted with valid noise emission labels during					V	
3.07	operation? Are air compressors fitted with valid noise emission labels during operation?					V	
3.08	Are flaps and panels of mechanical equipment closed during operation?	$\mathbf{N}$					
3.09	Are Construction Noise Permit(s) applied for percussive piling works or construction activities out of restricted hours?					A	
Sectio	on 4: Waste/Chemical Management						
4.01	Waste Management Plan had been submit to Engineer for approval.		M				
4.02	Are receptacles available for general refuse collection?						
4.03	Is general refuse sorting or recycling implemented?		V				
4.04	Is general refuse disposed of properly and regularly?		V				
4.05	Is the Contractor registered as a chemical waste producer?					Ŋ	
4.06	Are the chemical waste containers properly labelled?					A	
4.07	Are the chemical wastes stored in proper storage areas?					V	
4.08	Is the chemical waste storage area properly labelled?					A	
4.09	Is the chemical waste storage area used for storage of chemical waste only?					M	
4.10	Are incompatible chemical wastes stored in different areas?					V	
4.11	Are the chemical wastes disposed of by licensed collectors?					M	
4.12	Are trip tickets for chemical wastes disposal available for inspection?					V	
4.13	Are chemical/fuel storage areas bounded?	$\mathbf{\overline{A}}$					
4.14	Are designated areas identified for storage and sorting of construction		V				
4.15	wastes? Are construction wastes sorted (inert and non-inert) on site?		$\square$				

#### Environmental Team –Site Inspection and Environmental Audit Checklist

# AUES

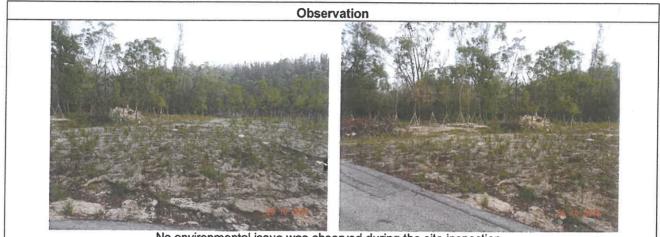
Note:	Not Obs.: Not Observed; Yes: Compliance; No: Non-Compliance; Follow Up: Observations requiring follow-Up actions N/A: Not Applicable	Not Obs.	Yes	No	Follow Up	N/A	Photo/ Remarks
4.16	Are construction wastes reused?		V				
4.17	Is construction waste disposed of properly?		Ø				
4.18	Are site hoardings and signboards made of durable materials instead of timber?		Ø				
4.19	Is trip ticket system implemented for the disposal of construction wastes and records available for inspection?		Ø				
4.20	Is relevant license/ permit for disposal of construction waste or excavated materials available for inspection?		Ø				
Sectio	n 5: Landscape & Visual						
5.01	Are retained and transplanted trees in health condition?		M				
5.02	Are retained and transplanted trees properly protected?		Ø				
5.03	Are surgery works carried out for the damaged trees?		Ø				
5.04	No damage to trees outside site boundary due to construction activities?		Ø				
Sectio	n 6: Hazard to Life						
6.01	Is the security plan addresses different alert security levels?					$\mathbf{\nabla}$	
6.02	Is the emergency plan (i.e. magazine operational manual) shall be followed and amended if necessary to address uncontrolled fire in magazine area and transport?					Ø	
6.03	Is good house-keeping maintained within the site magazine area?		Ø				
6.04	Is the site magazine kept locked all the time and provided with proper security					Ø	
	measures?						
6.05	No delivery vehicles remained within the site secured fence off magazine store area?					Ø	
<b>Sectio</b> 7.01	<b>n 7: Others</b> Are relevant Environmental Permits posted at all vehicle site entrances/exits?		Ø				
7.01							

#### Environmental Team –Site Inspection and Environmental Audit Checklist Follow up Site inspection findings dated: (28 September 2018)

Follow up Si	te inspection findings
Nil	NA

# Finding Non-compliance in this weekly site inspection:

#### Observation in this weekly site inspection: (26 October 2018)



No environmental issue was observed during the site inspection.

#### **Reminder:**

Nil **IEC's representative** ET's Contractor's representative representative (EO) Adi Le 26 od il Name Joshua Tam Ben Tam Date: 26 October 2018 26 at 2018

By

**AUES** 

# Appendix D

### IMPLEMENTATION SCHEDULE FOR ENVIRONMENTAL MITIGATION MEASURES (ISEMM)

Note: Chapters 1 to 2 of the EIA report present the background information of the Project and Project Description. Chapters 3 to 8 of the EIA report present the EIA findings and mitigation measures, as described below with cross-reference to the EIA report. Chapters 9 & 10 summarize the environmental monitoring and audit requirements and provide a conclusion along with a summary of the environmental outcomes of the EIA.

\* O = Operation; D = Decommissioning of the TLEM; CoP = Completion of Project

EIA	EM&	<b>Recommended Mitigation Measures</b>	Objectives of the	Implementation	Location/ Duration	Implementation	<b>Relevant Legislation &amp;</b>
Ref	A Ref		Recommended Measures & Main Concerns to address	Agent	of the measure	Stage (O, D, CoP*)?	Guidelines
	Kei	Ecological Impact (Operation & Completion of	Wall Concerns to address				
		Project)					
<u>S3.5</u>		• Reinstatement planting should be carried out at the site according to the XRL EIA Vegetation Survey Report for Tai Shu Ha Road West and the Tree Planting and Landscape Plan TLP-10: Works in Yuen Long District (Tai Shu Ha) (hereafter TLP).	To restore the habitat back to borrow area reinstatement plantation, as it was prior to the construction of the TLEM for the MTRC's use. To ensure the proposed mitigation recommended in the approved XRL EIA for loss of green areas affected by the XRL Project, is implemented.	The reinstatement planting will be implemented by DHK. The maintenance agent will be DLO as confirmed in the TLP.	Tai Lam Explosives Magazine (TLEM) site/ During - site restoration prior to mitigation planting, Planting & Establishment period of at least 12 months.	СоР	XRL EIA Vegetation Survey Report for Tai Shu Ha Road West Tree Planting and Landscape Plan TLP-10: Works in Yuen Long District (Tai Shu Ha) DEVB TCW No. 10/2013 – Tree Preservation (supersedes ETWB TC(W) No. 3/2006 )
		Noise Impact (Operation and Decommissioning)					
S4.4.1		No adverse impacts anticipated.	To ensure good site practices	Contractor for	Approximately one	D	Recommended Clauses for
		• For good practice, adopt general noise control measures, as listed in <i>Recommended Clauses for Construction Contracts – Section 3 - Noise Control</i> during decommissioning	are adopted and noise generation minimized during decommissioning	DHK	month during decommissioning of the TLEM		Construction Contracts – Section 3 - Noise Control
		Air Quality (Operation and Decommissioning)					
S5		<ul> <li>Not applicable (n/a) – no adverse impacts anticipated.</li> </ul>	n/a	n/a	n/a	n/a	n/a

EIA Ref	EM& A Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location/ Duration of the measure	Implementation Stage (O, D, CoP*)?	Relevant Legislation & Guidelines
		Waste Management (Operation and Decommissioning)					
S6.5		<ul> <li>Good site management practice will be adopted by the contractors of the Project and waste on-site will be properly segregated to increase the potential for reuse and recycling.</li> <li>General refuse is removed from the Project Site regularly (i.e. once per day).</li> </ul>	Avoid adverse environmental impacts related to handling and disposal of waste.	DHK	Tai Lam Explosives Magazine (TLEM) site/ During operation of TLEM & approximately one month during decommissioning of the TLEM	O, D	Waste Disposal Ordinance (WDO) (Cap 354); Waste Disposal (Charges for Disposal of Construction Waste) Regulation (Cap 354N); Waste Disposal (Chemical Waste) (General) Regulation (Cap 354C); Land (Miscellaneous Provisions) Ordinance (Cap 28); and Public Health and Municipal Services Ordinance (Cap 132) - Public Cleansing and Prevention of Nuisances Regulation.
S6.5		Chemical refuse will be properly stored and disposed of separately to general waste.	Avoid contamination by chemical waste.	Licensed Chemical Waste Collector for DHK	Tai Lam Explosives Magazine (TLEM) site/ During operation of TLEM & approximately one month during decommissioning of the TLEM	O, D	Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes (1992), EPD, Hong Kong Government

Implementation S	Schedule of Recommended	l Mitigation Measures
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EIA Ref	EM& A Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location/ Duration of the measure	Implementation Stage (O, D, CoP*)?	Relevant Legislation & Guidelines
		Other (Operation and Decommissioning)					
S7.1		<ul> <li>No adverse impacts anticipated. For good measure adopt the following good practice measures:</li> <li>Surface run-off from construction site should be discharged into storm drains via adequately designed sand/silt removal facilities such as sand traps, silt traps and sediment basins. Channels or earth bunds or sand bag barriers should be provided on site to properly direct stormwater to such silt removal facilities. Perimeter channels at site boundaries should be provided where necessary to intercept storm run-off from outside the site so that it will not wash across the site. Catchpits and perimeter channels should be constructed in advance of site formation works and earthworks.</li> </ul>	Minimize construction site runoff during decommissioning	Contractor for DHK	TLEM site / Approximately one month during decommissioning of the TLEM	D	Practice Note for Professional Persons on Construction Site Drainage (ProPECC PN1/94)
S7.1		• Silt removal facilities, channels and manholes should be maintained and the deposited silt and grit should be removed regularly, at the onset of and after each rainstorm to ensure that these facilities are functioning properly at all times.	Minimize construction site runoff during decommissioning	Contractor for DHK	TLEM site /Approximately one month during decommissioning of the TLEM	D	Practice Note for Professional Persons on Construction Site Drainage (ProPECC PN1/94)
S7.1		• Earthworks final surfaces should be well compacted and the subsequent permanent work or surface protection should be carried out immediately after the final surfaces are formed to prevent erosion caused by rainstorms. Appropriate drainage like intercepting channels should be provided where necessary.	Minimize construction site runoff during decommissioning	Contractor for DHK	TLEM site /Approximately one month during Decommissioning of the TLEM	D	Practice Note for Professional Persons on Construction Site Drainage (ProPECC PN1/94)

EIA	EM&	Recommended Mitigation Measures	Objectives of the	Implementation	Location/ Duration		Relevant Legislation &
Ref	A Ref		Recommended Measures & Main Concerns to address	Agent	of the measure	Stage (O, D, CoP*)?	Guidelines
S7.1		Manholes (including newly constructed	Minimize construction site	Contractor for	TLEM site	D	Practice Note for Professional
		ones) should always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris from getting into the drainage system, and to prevent storm run-off from getting into foul sewers. Discharge of surface run-off into foul sewers must always be prevented in order not to unduly overload the foul sewerage system.	runoff during decommissioning	DHK	/ Approximately one month during decommissioning of the TLEM		Persons on Construction Site Drainage (ProPECC PN1/94)
S7.1		• Precautions and actions, as stipulated in	Minimize construction site	Contractor for	TLEM site	D	Practice Note for Professional
			runoff during decommissioning	DHK	/Approximately one month during Decommissioning of the TLEM		Persons on Construction Site Drainage (ProPECC PN1/94)
S7.1		• To minimize erosion of exposed soil in	Minimize construction site	Contractor for	TLEM site	D	-
		re-vegetation / plantation, exposed soil should be covered with geotextile promptly after the removal works.	runoff and soil erosion during decommissioning	DHK	/Approximately one month during Decommissioning of the TLEM		
		Hazard to Life (Operation - Storage)					
S8.9.1			Reduce opportunity for arson/	DHK	TLEM site /	0	-
		alert security levels. The corresponding security procedure should be implemented with respect to prevailing security alert status announced by the Government.	deliberate initiation of explosives.		Throughout operation of the Project		
S8.9.1			Minimize risk of uncontrolled	DHK	For TLEM site and	0	-
& \$8.9.2 & \$8.9.3		manual) shall be followed and amended if necessary to address uncontrolled fire in magazine area and transport. The case of fire near an explosive carrying truck in jammed traffic should also be covered. Drill of the emergency plan should be carried out at regular intervals.	fire in TLEM and along transport route		Transport route / Throughout operation of the Project		

EIA Ref	EM& A Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location/ Duration of the measure	Implementation Stage (O, D, CoP*)?	Relevant Legislation & Guidelines
S8.9.1		• Adverse weather working guideline should be followed and amended if necessary to clearly define procedure for transport explosives during thunderstorm.	Minimize explosive truck accident frequency.	DHK	TLEM site / Throughout operation of the Project	0	
S8.9.1		• The Magazine storage quantities need to be reported on a monthly basis	Ensure that the two day storage capacity is not exceeded	Contractor for DHK	TLEM site / Throughout operation of the Project	0	Dangerous Goods Ordinance
S8.9.2		• A suitable work control system should be followed and amended if necessary, such as an operational manual including Permit-to-Work system	Ensure work activities undertaken during the operation of the Magazine are properly controlled.	DHK	For TLEM site / Throughout operation of the Project	0	-
S8.9.2		Good house-keeping within the Magazine	Ensure combustible materials are not allowed to accumulate.	Contractor for DHK	For TLEM site / Throughout operation of the Project	0	-
S8.9.2		Good housekeeping outside the Magazine stores to be followed.	To ensure combustibles (including vegetation) are removed and reduce risk and severity of any accidental fire onsite.	Contractor for DHK	For TLEM site / Throughout operation of the Project	0	-
S8.9.2		• The Magazine shall be without open drains, traps, pits or pockets into which any molten ammonium nitrate could flow and be confined in the event of a fire.	Reduce risk of severity of accidental fire and contamination of site.	DHK	For TLEM site / Throughout operation of the Project	0	-
S8.9.2		• The Magazine building shall be regularly checked for water seepage through the roof, walls or floor.	Ensure explosives being stored remain dry.	Contractor for DHK	For TLEM site / Throughout operation of the Project	0	-
S8.9.2		Caked explosives shall be disposed of in an appropriate manner.	Ensure general safe practice	Contractor for DHK	For TLEM site / Throughout operation of the Project	0	-

EIA Ref	EM& A Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location/ Duration of the measure	Implementation Stage (O, D, CoP*)?	Relevant Legislation & Guidelines
S8.9.3		• If disposal is required for small quantities, it should be made in a controlled and safe manner by a Registered Shotfirer.	To reduce the risk during explosives transport	Registered Shotfirer for DHK	For TLEM site / Throughout operation of the Project	0	-
58.9.2		• Delivery vehicles shall not be permitted to remain within the secured fenced off magazine store area	Avoid accidents involving vehicles within the site boundary.	Contractor for DHK	For TLEM site / Throughout operation of the Project	0	-
S8.9.2		• A speed limit within the magazine area should be enforced	Reduce the risk of a vehicle impact or incident within the Magazine area.	Contractor for DHK	For TLEM site / Throughout operation of the Project	0	-
58.9.2		• Traffic Management should be implemented within the Magazine site, to ensure that no more than one (1) vehicle will be loaded at any time.	Avoid accidents involving multiple vehicles within the site boundary.	Contractor for DHK	For TLEM site / Throughout operation of the Project	0	-
		Hazard to Life (Operation - Transport)					
S8.9.1		• Truck design should comply with the Requirements for Approval of an Explosives Delivery Vehicle (CEDD 2) and limit the amount of combustibles in the cabin. The fuel carried in the fuel tank should also be minimised to reduce the duration of any fire.	Ensure delivery vehicle is as safe as possible.	Contractor for DHK	Transport vehicle/ Throughout operation of the Project	Ο	
S8.9.1		• Implement a dedicated training programme for both the driver and his attendants, including regular briefing sessions, implementation of a defensive driving attitude.	Minimize explosive truck accident frequency.	DHK	Vehicle driver & attendants for Transport route/ Throughout operation of the Project	0	-
58.9.1		• As far as practicable combine explosive deliveries for a given work area	Reduce number of journeys required	Contractor for DHK	Transport route/ Throughout operation of the Project	0	· · · · · · · · · · · · · · · · · · ·

EIA Ref	EM& A Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location/ Duration of the measure	Implementation Stage (O, D, CoP*)?	Relevant Legislation & Guidelines
S8.9.1		• Only the required quantity of explosives for a particular blast should be transported.	Avoid the return of unused explosives to the Magazine.	Contractor for DHK	Transport route/ Throughout operation of the Project	0	-
S8.9.1		• Whenever practicable, a minimum headway between two consecutive truck convoys of 10 minutes is recommended and separation of vehicles should be maintained during the whole trip.	Minimize explosive truck accident severity.	Contractor for DHK	Transport route/ Throughout operation of the Project	0	-
S8.9.1		• Implement a better emergency response and training to make sure the adequate fire extinguishers are used and attempt is made to evacuate the area of the incident or securing the explosive load if possible.	Minimize explosive truck fire involvement frequency.	Contractor for DHK	Transport route/ Throughout operation of the Project	Ο	-
		• All explosive vehicles should be equipped with the required amount and type of fire extinguishers and shall be agreed with Mines Division.					
S8.9.3		• Detonators shall not be transported in the same vehicle with other Class 1 explosives and separation of vehicles should be maintained during the trip.	Minimize explosive truck accident frequency.	Contractor for DHK	Transport vehicle/ Throughout operation of the Project		-
S8.9.3		• Location for stopping and unloading from truck to be provided as close as possible to shaft, free from dropped loads, hot work, etc. during time of unloading.	To ensure that the risks from the proposed explosives storage and transport would not be unacceptable	Contractor for DHK	End of Transport route/ Throughout operation of the Project	0	-
S8.9.3		• Develop procedure to ensure that parking space on the site is available for the explosive truck. Confirmation of parking space should be communicated to truck drivers before delivery. If parking space on site cannot be secure, delivery should not commence.	To ensure that the risks from the proposed explosives storage and transport would not be unacceptable	Contractor for DHK	End of Transport route/ Throughout operation of the Project	0	-
S8.9.3		• Ensure lining is provided within the transportation box on the vehicle and in good condition before transportation.		Contractor for DHK	Transport vehicle/ Throughout operation of the Project	0	-

EIA Ref	EM& A Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location/ Duration of the measure	Implementation Stage (O, D, CoP*)?	Relevant Legislation & Guidelines
S8.9.3		• Ensure that packaging of detonators remains intact until handed over at blasting site.	To meet the ALARP requirement.	Contractor for DHK	End of Transport route/ Throughout operation of the Project	0	-
S8.9.3		• Emergency plan to include activation of fuel and battery isolation switches on vehicle when fire breaks out.	Prevent fire spreading and reducing likelihood of prolonged fire leading to explosion.	Contractor for DHK	Transport vehicle/ Throughout operation of the Project	0	-
S8.9.3		• Ensure that cartridged emulsion packages are damage free before every trip.	To meet the ALARP requirement.	Contractor for DHK	Transport route/ Throughout operation of the Project	0	-
58.9.3		• Ensure that explosives will be offloaded and stored away from the railway protection area according to the MTRCL railway protection area plan.	To meet the ALARP requirement.	Contractor for DHK	The three worksites (i.e. Mid-Ventilation Adit, North Portal and South Portal)/ Throughout operation of the Project	0	

EIA Ref	EM& A Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location/ Duration of the measure	Implementation Stage (O, D, CoP*)?	Relevant Legislation & Guidelines
58.9.3		<ul> <li>Vehicles should meet Licenced Vehicle Safety Requirements including:</li> <li>Mobile telephone equipment;</li> <li>Battery isolation switch;</li> <li>Front mounted exhaust with spark arrestor;</li> <li>Fuel level should be kept as far as possible to the minimum level required for the transport of explosives;</li> <li>Minimum 1 × 9 kg water based AFFF fire extinguisher to be provided;</li> <li>Minimum 1 × 9 kg dry chemical powder fire extinguisher to be provided;</li> <li>Horizontal fire screen on cargo deck and vertical fire screen mounted at least 150mm behind the drivers cab and 100mm from the steel cargo compartment, the vertical screen shall protrude 150mm in excess of all three (3) sides of the steel cargo compartment;</li> <li>Cigarette lighter removed;</li> <li>Two (2) battery powered torches for night deliveries.</li> </ul>	Prevent fire spreading and reducing likelihood of prolonged fire leading to explosion.	Contractor for DHK	Transport vehicle/ Throughout operation of the Project	Ο	CEDD's Guidance Note on Requirements for Approval of an Explosive Delivery Vehicle
58.9.3		<ul> <li>Vehicles shall be dedicated explosive transport vehicles and should be maintained in good operating condition;</li> <li>Daily checks on tyres and vehicle integrity.</li> <li>Regular monthly vehicle inspections for fuel system, exhaust system, brakes, electrics, battery, cooling system and engine oil leaks.</li> <li>Vehicle log book in which monthly inspections and maintenance requirements are recorded</li> </ul>	Ensure vehicle remains as safe as possible	Contractor for DHK	Transport vehicle/ Throughout operation of the Project	0	

EIA Ref	EM& A Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location/ Duration of the measure	Implementation Stage (O, D, CoP*)?	Relevant Legislation & Guidelines
S8.9.3		• Drivers should be selected based on good safety record, and medical checks. Use only experienced driver(s) with good safety record.	y accident frequency and/ or Discrete severity.	Contractor for DHK	Vehicle driver for Transport route / Throughout operation of the Project	0	
		• It is recommended that drivers be registered by the Commissioner of Mines; over the age of 25 years with proven accident free record; have more than seven (7) year driving experience without suspension; .hold a Driving License for the class of vehicle for at least one (1) year; adopt a safe driving practice including having attended a defensive driving course; pass a medical check and are assessed as fit to drive explosives vehicles; and are not dependent on banned substances.					
		• Drivers should attend relevant training courses recognized by the Commissioner of Mines, including but not limited to: the laws and Regulations relating to the transport of explosives: and Security and safe handling during the transport of explosives.					
		<ul> <li>Drivers should attend training courses provided by the explosives manufacturer or distributor, covering: <ul> <li>explosives identification;</li> <li>explosion hazards; and</li> <li>explosives sensitivity;</li> <li>dangers which could be caused by the types of explosives;</li> <li>packaging, labelling and characteristics of the types of explosives;</li> <li>the use of fire extinguishers and firefighting procedures; and</li> <li>emergency response procedures in case of accidents.</li> </ul> </li> </ul>					

EIA Ref	EM& A Ref	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location/ Duration of the measure	Implementation Stage (O, D, CoP*)?	Relevant Legislation & Guidelines
S8.9.3		<ul> <li>The Driver will also be responsible for various matters as listed in the EIA, including having a full set of Material Safety Data Sheets (MSDS) for each individual explosive aboard the vehicle and for the particular journey, etc.</li> </ul>	Minimize explosive truck accident frequency and/ or severity.	Contractor for DHK	Vehicle driver for Transport route/ Throughout operation of the Project	0	
		• The MSDS and Removal Permit (where applicable) shall be produced to any officer of the Minds Division of CEDD upon request.					
58.9.3		<ul> <li>Explosive Vehicle Attendants shall:         <ul> <li>Be the assistant to the driver in normal working conditions and in case of any emergency</li> <li>Be conversant with the emergency response procedures</li> <li>Be competent to use the fire extinguishers and the vehicle emergency cut-off switches</li> <li>At least one of the vehicle attendant(s) should be equipped with a mobile phone and the relevant MSDS and emergency response plan</li> </ul> </li> </ul>	Reduce number of journeys required	Contractor for DHK	Vehicle driver attendants for Transport route/ Throughout operation of the Project	0	-
58.9.3		<ul> <li>For explosive selection, the following should be considered:</li> <li>Cartridged Emulsions with perchlorate formulation should be avoided</li> <li>Cartridged Emulsions with high water content should be preferred.</li> </ul>	To meet the ALARP requirement.	Contractor for DHK	For TLEM site and Transport route / Throughout operation of the Project	0	-

\* O = Operation; D = Decommissioning of the TLEM; CoP = Completion of Project

# Appendix E

### LETTER TO MINES DIVISION TO RETURN LICENSE AND STOCK BOOK



Your Ref.:

Our Ref.: LTH/CEDD/L/13049/Tkh

Date: 17<sup>th</sup> August 2017

Chief Geotechnical Engineer/Mines Mines Division. Geotechnical Engineering Office Civil Engineering and Development Department 25/F, 410 Kwun Tong Road Kowloon, Hong Kong

#### Attn: Mr. Wing-Hung Lee (Explosive Officer B)

Dear Sirs

Contract No. CV/2012/08 Liantang / Heung Yuen Wai Boundary Control Point Site Formation and Infrastructure Works - Contract 2 Return Tai Shu Ha Magazine (Purple 131)Licence and Stock Book (Blasting Explosives Register)

Due to our South Tunnel blasting work finished on 15<sup>th</sup> August 2017, the Tai Shu Ha Magazine (Purple 131) will close after site inspection on 17<sup>th</sup> August 2017.

Ne

We will return the following documents as below:

- 2 Stock Books (Blasting Explosives Register) .
- 2 Licences (A002180 and A002181)

Should you have any inquiry, please do not hesitate to contact Mr. Tse at 9807 5832.

Yours faithfully, For and on behalf of **Dragages Hong Kong Limited** Confidential Ye HKLTU (CV/2012/08) ACT NF PD-DAI DPD GCM TBM Tradi Daniel ALTIER MV & S **Project Director** Building Survey Ph /TkH Procu TM Design Encl. Method Ph Geotaci AECOM - Mr Francis Leong c.c.: CON

高原期间心

caringcompany

**Endorsed by the AECOM** 

**Blasting Competent Supervisor** 

**Dragages Hong Kong Limited** 

Site Office : Junction of Sha Tau Kok Road and Wo Keng Shan Road, Fanling Mailing Address : P.O. Box No. 541 Fanling Post Office, Hong Kong Head Office : 3/F, Island Place Tower, 510 King's Road, North Point, Hong Kong Tel 電話:+852 2171 3000 Fax 衝真:+852 2171 3299

香港質嘉建築有限公司 工地辦事處:粉粥沙頭角公路及禾徑山路交界 **新客地址:粉窑和砂局邮箱541**%

總寫字樓;香港北角英皇道510號港運大廠3樓

www.dragageshk.com

**By Hand** 

# Appendix F

## MONTHLY SUMMARY WASTE FLOW TABLE



#### MONTHLY SUMMARY WASTE FLOW TABLE - TLEM

#### Contract No. CV/2012/08 Liantang / Heung Yuen Wai Boundary Control Point Site Formation and Infrastructure Works – Contract 2

FOR: <u>2</u>	<u>018</u>
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	Actual Quantities of Inert C&D Materials Generated Monthly					Actual Quantities of C&D Wastes Generated Monthly					
Month	Total Quantity Generated	Hard Kock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill*	Imported Fill	Metals	Paper/ cardboard packaging	Plastics (see Note 3)	Chemical Waste	Others, e.g. general refuse#
	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000 kg)	(in '000 kg)	(in '000 kg)	(in '000 kg)	(in '000m <sup>3</sup> )
Jan	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Feb	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.1875
Mar	1.0267	0.0000	0.0000	0.0000	1.0267	0.0000	0.0000	0.0000	0.0000	0.0000	0.1313
Apr	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
May	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0081
June	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Sub-total	1.0267	0.0000	0.0000	0.0000	1.0267	0.0000	0.0000	0.0000	0.0000	0.0000	0.3269
July	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Aug	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Sep	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Oct	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Nov											
Dec											
Sub-total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.0267	0.0000	0.0000	0.0000	1.0267	0.0000	0.0000	0.0000	0.0000	0.0000	0.3269

Assumption: 1m<sup>3</sup> of inert material weight 2.2 tonne 1m3 of non-inert material weight 1.6 tonne 1m3 of chemical waste weight 0.88 tonne