

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 – FEBRUARY 2018**

PREPARED FOR

DRAGAGES HONG KONG LIMITED

Date	Reference No.	Prepared By	Certified By
15 March 2018	TCS00814/15/600/R0050v1	 Ben Tam (Environmental Consultant)	 Tam Tak Wing (Environmental Team Leader)

Version	Date	Remarks
1	15 March 2018	First Submission



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

Your reference:

Our reference: HKDHL01/50/104904

Date: 22 March 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 February 2018

We refer to email of 15 March 2018 attaching a Monthly EM&A Report for February 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 or our Mr Nic Lam on 2618 2831 should you have any queries.

Yours faithfully
ANEWR CONSULTING LIMITED

Adi Lee
Independent Environmental Checker

LYMA/LHHN/WCKJ/lhnh

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 two phases in this project, operation and decommissioning 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.
- ES.06 This is the 24th Environmental Monitoring and Audit Monthly Report covering the period from **1 to 28 February 2018** (the Reporting Period).

ENVIRONMENTAL MONITORING AND AUDIT ACTIVITIES

- ES.07 Environmental monitoring activities under the EM&A program in this Reporting Month are summarized in the following table.

Issues	Environmental Monitoring Parameters / Inspection	Occasions
Inspection / Audit	ET Monthly Environmental Site Inspection	4
	IEC Monthly Environmental Site Audit	1

ENVIRONMENTAL COMPLAINT

- ES.08 No environmental complaint was recorded or received in this Reporting Month. The statistics of environmental complaint are summarized in the following table.

Reporting Period	Environmental Complaint Statistics		
	Frequency	Cumulative	Complaint Nature
Since the project commencement	0	0	NA
February 2018	0	0	NA

NOTIFICATION OF SUMMONS AND SUCCESSFUL PROSECUTIONS

- ES.09 No environmental summons or successful prosecutions were recorded in this Reporting Month. The statistics of environmental complaint are summarized in the following tables.

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

Reporting Period	Environmental Prosecution Statistics		
	Frequency	Cumulative	Complaint Nature
Since the project commencement	0	0	NA
February 2018	0	0	NA

REPORTING CHANGE

ES.10 There are no reporting changes in this Reporting Month.

SITE INSPECTION BY EXTERNAL PARTIES

ES.11 No site inspection was undertaken by external parties i.e. EPD or AFCD in this Reporting Month.

FUTURE KEY ISSUES

ES.12 Disposal of waste, control of water quality and noise control measure are the key environmental issues during the decommissioning phase of the project. 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 24th Monthly EM&A Report presenting the monitoring results and inspection findings for the reporting period from 1 to 28 February 2018.

1.2 REPORT STRUCTURE

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

SECTION 1	INTRODUCTION
SECTION 2	PROJECT ORGANIZATION AND ENVIRONMENTAL SUBMISSION
SECTION 3	SUMMARY OF MONITORING REQUIREMENTS
SECTION 4	WASTE MANAGEMENT
SECTION 5	SITE INSPECTIONS
SECTION 6	ENVIRONMENTAL COMPLAINTS AND NON-COMPLIANCE
SECTION 7	IMPLEMENTATION STATUES OF MITIGATION MEASURES
SECTION 8	CONCLUSIONS AND RECOMMENDATION

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.

- Dismantling, demolition and removal of existing structures
- Breaking the concrete slab

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 (EP: EP-502/2015/A)	Application date: 26/08/2016 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 issues such as disposal of waste, control of water quality and noise control measure were identified as the key issues and no air or noise monitoring is required during the decommissioning phase of the Project.

3.2 MONITORING PARAMETERS

3.2.1 The EM&A programmes of decommissioning phase shall cover the following environmental issues:

- Disposal of waste;
- Control of water quality; and
- Noise control measure

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
Disposal of waste	<ul style="list-style-type: none"> • undertake site inspections of on-site practices and procedures each week
Control of water quality	<ul style="list-style-type: none"> • undertake site inspections of on-site practices and procedures each week to ensure comply with WPCO requirement
Noise control measure	<ul style="list-style-type: none"> • undertake site inspections of on-site practices and procedures each week to ensure good site practices are adopted and noise generation minimized during decommissioning

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 week 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 4-1 Summary of Quantities of Inert C&D Materials

Type of Waste	Quantity	Disposal Location
Reused in this Contract (Inert) (^000m ³)	0	-
Reused in other Projects (Inert) (^000m ³)	0	-
Disposal as Public Fill (Inert) (^000m ³)	0	-

Table 4-2 Summary 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 ³)	0.1875	Landfill Site

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 phase and 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 inspections to evaluate site environmental performance were carried out by the ER, ET and the Contractor on **2, 9, 13 and 23 February 2018**. No non-compliance was noted but **2** observations and **4** reminders were recorded during site inspection. Moreover, IEC has attended joint site inspection on **23 February 2018**. 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 5-1 Site Observations

Date	Findings / Deficiencies	Follow-Up Status
2 February 2018	<ul style="list-style-type: none"> EP should be displayed properly at the site entrance. 	<ul style="list-style-type: none"> EP was properly display at the site entrance.
	<ul style="list-style-type: none"> Stockpile should be covered to reduce dust impact 	<ul style="list-style-type: none"> Not required for reminder
	<ul style="list-style-type: none"> Tree protection zone should be set up to prevent damage to the existing tree during the demolish works 	<ul style="list-style-type: none"> Not required for reminder
9 February 2018	<ul style="list-style-type: none"> Construction waste or material should be stored apart from the retaining tree. 	<ul style="list-style-type: none"> Construction waste or material storage near the retaining tree was removed.
	<ul style="list-style-type: none"> tree protection zone should be set up during the demolish work to protect the retaining tree on-site. 	<ul style="list-style-type: none"> Not required for reminder
13 February 2018	<ul style="list-style-type: none"> tree protection zone should be set up during the demolish work to protect the retaining tree on-site. 	<ul style="list-style-type: none"> Not required for reminder
23 February 2018	<ul style="list-style-type: none"> Nil 	<ul style="list-style-type: none"> NA

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. The letter to Mines Division to return the license and stock book is shown in [Appendix E](#).

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

Reporting Period	Environmental Complaint Statistics		
	Frequency	Cumulative	Complaint Nature
Since the project commencement	0	0	NA
February 2018	0	0	NA

Table 6-2 Statistical Summary of Environmental Summons

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

Table 6-3 Statistical Summary of Environmental Prosecution

Reporting Period	Environmental Prosecution Statistics		
	Frequency	Cumulative	Complaint Nature
Since the project commencement	0	0	NA
February 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 7-1 Environmental Mitigation Measures

Issues	Environmental Mitigation Measures
Hazard to Life	<ul style="list-style-type: none"> Security plan addresses different alert security levels. Followed the emergency plan Magazine kept locked all the time and provided with proper security measures No delivery vehicles remained within the site secured fence off magazine store area
Ecological	<ul style="list-style-type: none"> Protect the existing tree near the magazine site
Noise Impact	<ul style="list-style-type: none"> To ensure good site practices are adopted Noise generation minimized during decommissioning
Waste Management	<ul style="list-style-type: none"> Avoid adverse environmental impacts related to handling and disposal of waste
Water quality	<ul style="list-style-type: none"> Minimize construction site runoff during decommissioning
General	<ul style="list-style-type: none"> The site was generally kept tidy and clean.

- 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:
- Removal of concrete surface;
 - Removal of u-channel;
 - Minor site formation works;
 - Minor site landscape works;
 - Removal of water tank; and
 - Site clearance

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 decommissioning;
 - Protect the existing tree near the magazine site;
 - Housekeeping of the magazine site.
 - Fulfill all EP's requirement during decommissioning phase

8 CONCLUSIONS AND RECOMMENTATIONS

8.1 CONCLUSIONS

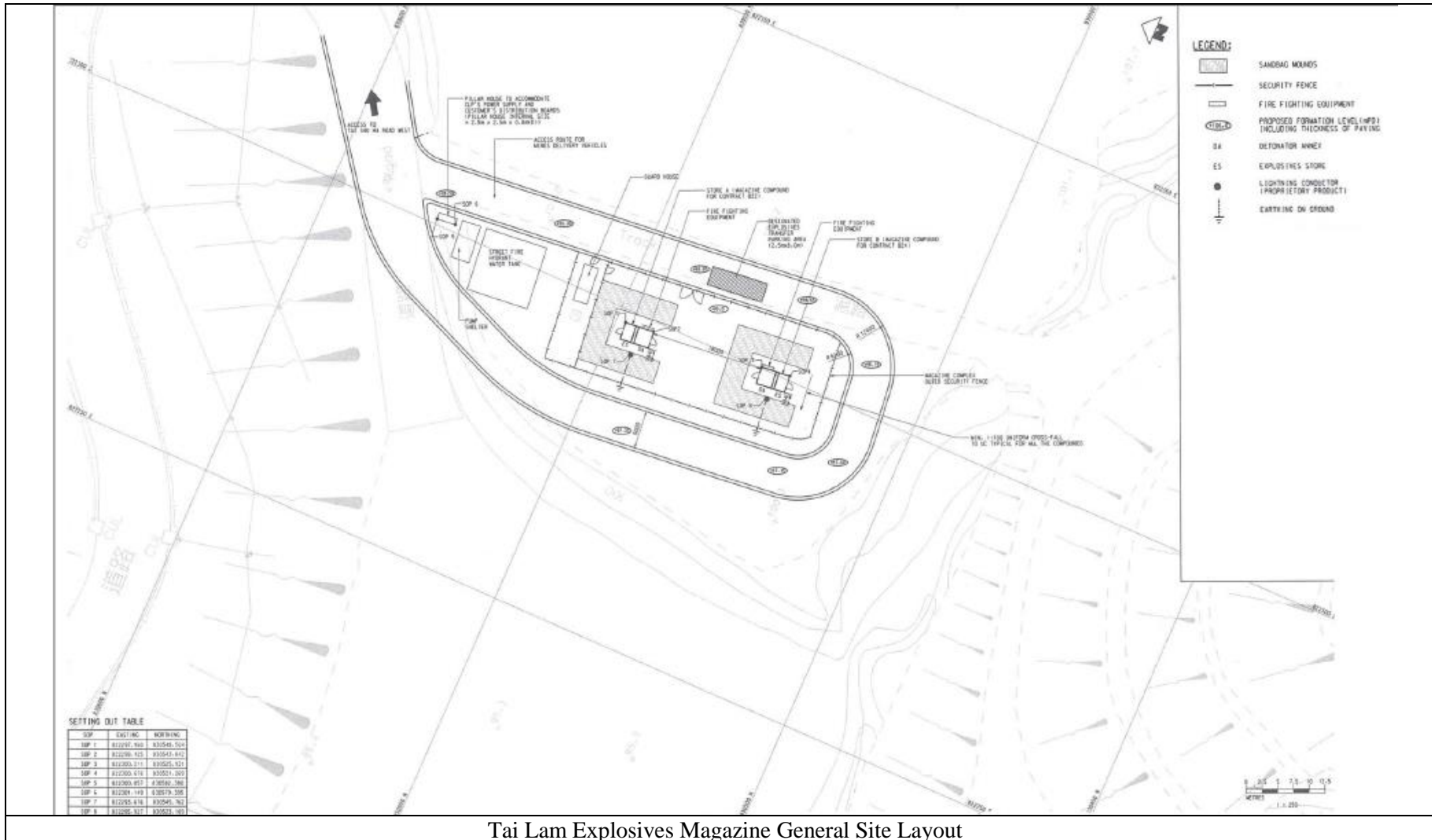
- 8.1.1 This is the **24th** monthly EM&A report, covering the construction period from **1 to 28 February 2018** (the Reporting Month).
- 8.1.2 No documented complaint, notification of summons or successful prosecution was received.
- 8.1.3 The Tai Shu Ha Magazine was closed after 17 August 2017. Due 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.
- 8.1.4 In the Reporting Period, joint site inspections to evaluate site environmental performance were carried out by the ER, ET and the Contractor on **2, 9, 13 and 23 February 2018**. No non-compliance was noted but **2** observations and **4** reminders were recorded during site inspection. Moreover, IEC has attended joint site inspection on **23 February 2018**. 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.

8.2 RECOMMENDATIONS

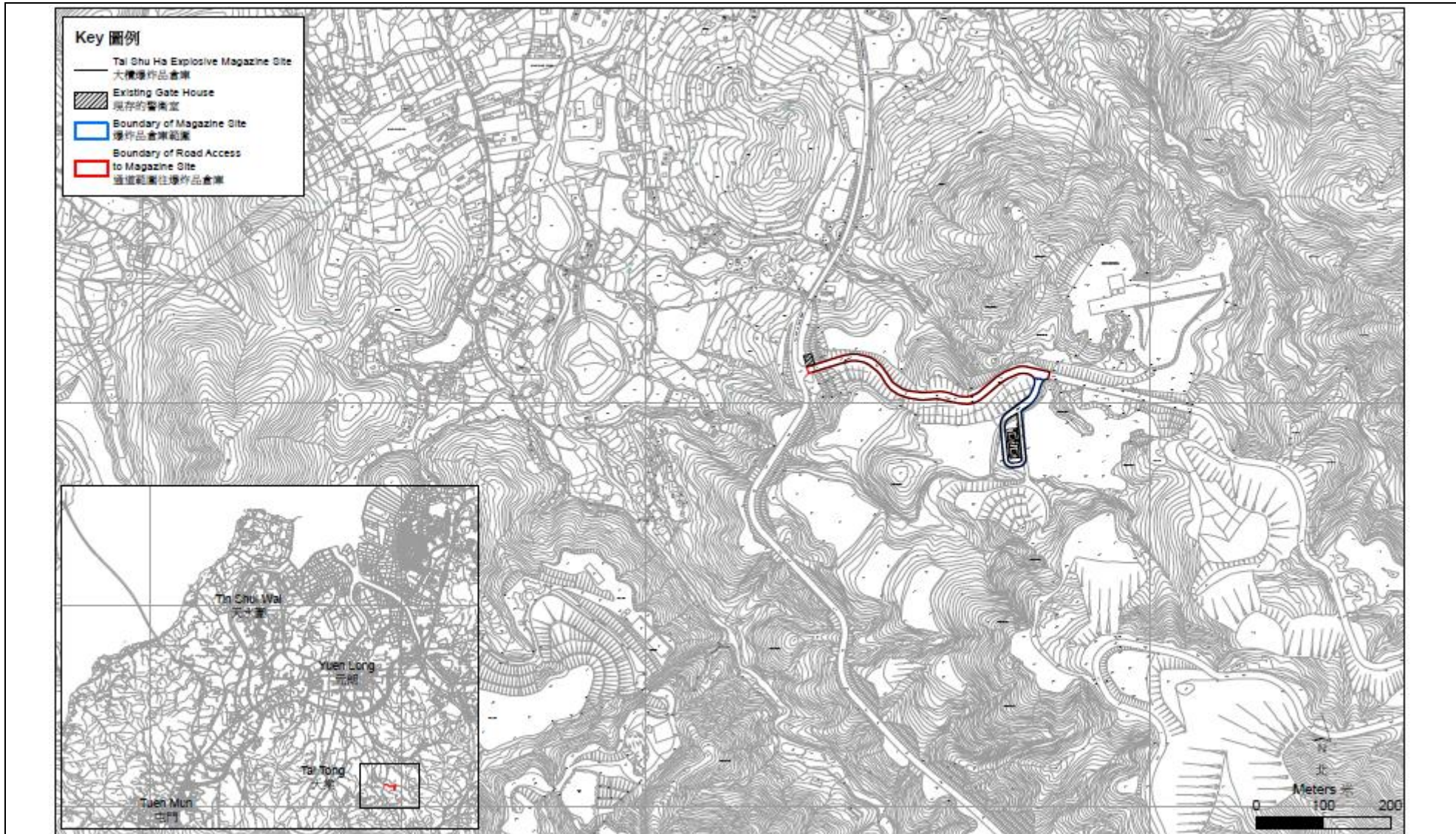
- 8.2.1 Disposal of waste, control of water quality and noise control measure are the key environmental issues during the decommissioning phase of the project. The permit holder should follow the implementation schedule to provide proper mitigation measures to maintain the good practice of those environmental 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



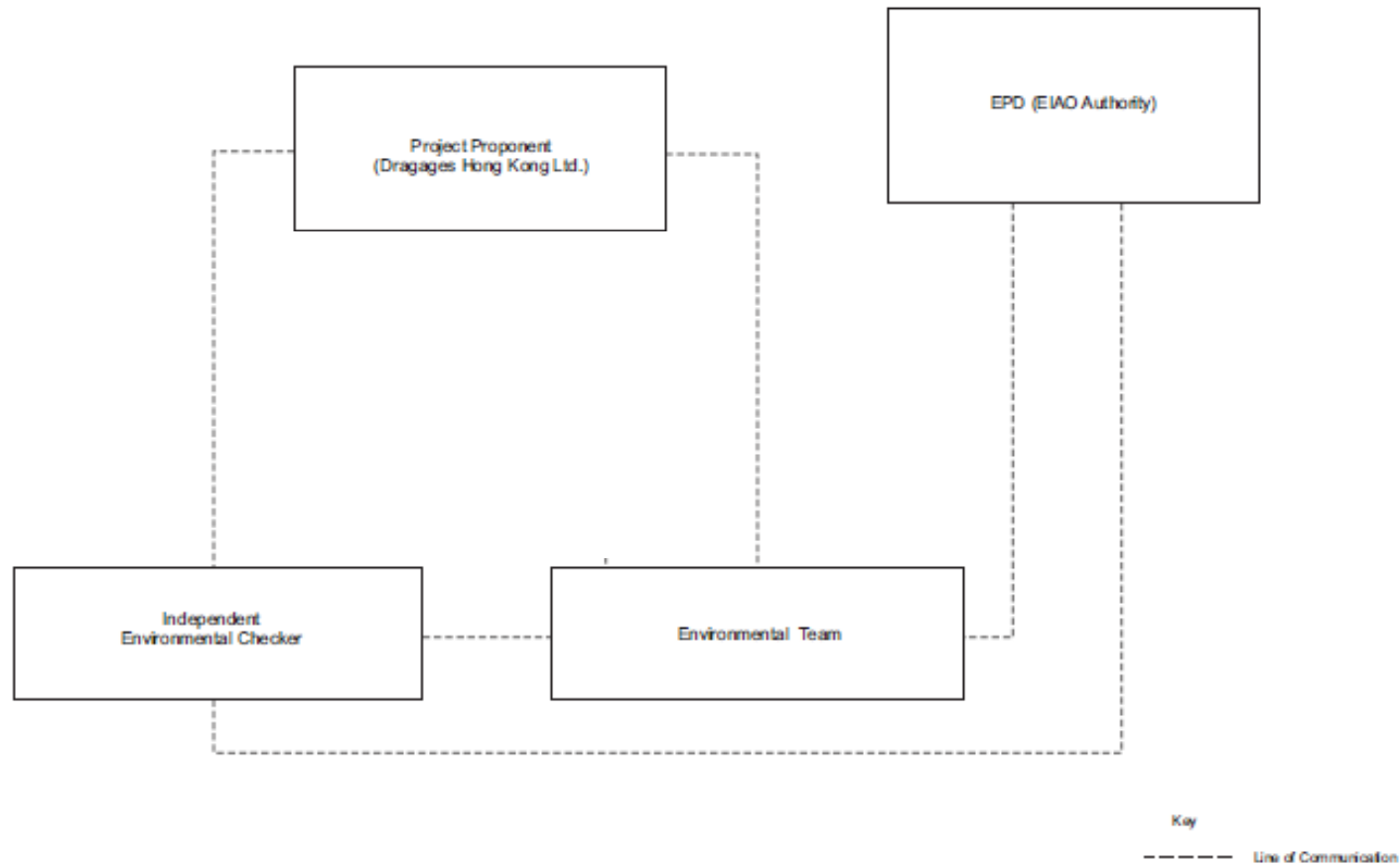
Tai Lam Explosives Magazine General Site Layout



Site Plan of the Existing Tai Lam Explosives Magazine

Appendix B

ORGANIZATION STRUCTURE



Appendix C

ENVIRONMENTAL CHECKLIST FOR THE REPORTING MONTH

Environmental Team –Site Inspection and Environmental Audit Checklist

Project: Operation of the Existing Tai Lam Explosives Magazine at Tai Shu Ha, Yuen Long for Liantang/Heung Yuen Wai Boundary Control Point Project **Checklist No:** EP- 502/2015-20180202

Date: 2 February 2018
Time: 14:45
Environmental Permit EP- 502/2015/A

Inspected by:
IEC Nil
ET AUES
Contractor Dragages

PART A: GENERAL INFORMATION

Weather: Sunny Fine Cloudy Rainy Temperature: 11 °C
Humidity: High Moderate Low
Wind: Strong Breeze Light Calm

PART B: SITE AUDIT

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
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Section 1: Water Quality

		Not Obs.	Yes	No	Follow Up	N/A	Photo/Remarks
1.01	Is effluent discharge licence for the Contract obtained?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.02	Is the discharge of turbid water avoided?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.03	Are there proper desilting facilities in the drainage systems to reduce SS levels in effluent?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.04	Are there channels, sandbags or bunds to direct surface run-off to sedimentation tanks?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.05	Are there any perimeter channels provided at site boundaries to intercept storm runoff from crossing the site?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.06	Is drainage system well maintained?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.07	Are earthworks final surfaces well compacted or protected?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.08	Are manholes adequately covered or temporarily sealed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.09	Are there any procedures and equipment for rainstorm protection?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.10	Are there any wheel washing facilities?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.11	Are there wheel washing facilities well maintained?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.12	Is runoff from wheel washing facilities avoided?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.13	Are there toilets provided on site?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.14	Are toilets properly maintained?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.15	Are there any vehicles and plant within the site?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.16	Is the oil leakage or spillage from vehicle or plant avoided?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.17	Are there any measures to prevent leaked oil from entering the drainage system?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.18	Are there any measures to collect spilt cement and concrete washings during concreting works?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
1.19	Are mobile toilets provided on site and located away from the stream course?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.20	Is licensed collector employed for handling the waste generated from mobile toilet?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____

Section 2: Air Quality

2.01	Are there wheel washing facilities with high pressure jets provided at every vehicle exit point?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2.02	Are vehicles washed to remove any dusty materials from their bodies and wheels before leaving construction sites?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
2.03	Are the excavated materials sprayed with water during handling?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
2.04	Are stockpiles of dusty materials sprayed with water, covered or placed in sheltered areas?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
2.05	Are the access roads sprayed with water to maintain the entire road surface wet or paved?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
2.06	Is the surface where any drilling, cutting, polishing or breaking operation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____

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?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
2.08	Is the loading of materials to a level higher than the side and tail boards during transportation by vehicles avoided?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
2.09	Is the road leading to the construction site within 30m of the vehicle entrance kept clear of dusty materials?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2.10	Is dark smoke emission from plant/equipment avoided?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2.11	Are site vehicles travelling within the speed limit not more than 10km/hour?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2.12	Are hoardings of not less than 2.4m high provided along the site boundary, which adjoins areas accessible to the public?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
2.13	Is open burning avoided?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2.14	All non-road vehicles using on site are granted the emission labels under the regulation?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Section 3: Noise							
3.01	Are noisy equipment and activities positioned as far as practicable from the sensitive receivers?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3.02	Is silenced equipment adopted?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3.03	Is idle equipment turned off or throttled down?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3.04	Are all plant and equipment well maintained and in good condition?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3.05	Are noise barriers or enclosures provided at areas where construction activities cause noise impact on sensitive receivers?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
3.06	Are hand held breakers fitted with valid noise emission labels during operation?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
3.07	Are air compressors fitted with valid noise emission labels during operation?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
3.08	Are flaps and panels of mechanical equipment closed during operation?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3.09	Are Construction Noise Permit(s) applied for percussive piling works or construction activities out of restricted hours?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
Section 4: Waste/Chemical Management							
4.01	Waste Management Plan had been submit to Engineer for approval.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
4.02	Are receptacles available for general refuse collection?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
4.03	Is general refuse sorting or recycling implemented?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
4.04	Is general refuse disposed of properly and regularly?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
4.05	Is the Contractor registered as a chemical waste producer?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
4.06	Are the chemical waste containers properly labelled?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
4.07	Are the chemical wastes stored in proper storage areas?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
4.08	Is the chemical waste storage area properly labelled?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
4.09	Is the chemical waste storage area used for storage of chemical waste only?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
4.10	Are incompatible chemical wastes stored in different areas?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
4.11	Are the chemical wastes disposed of by licensed collectors?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
4.12	Are trip tickets for chemical wastes disposal available for inspection?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
4.13	Are chemical/fuel storage areas bounded?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
4.14	Are designated areas identified for storage and sorting of construction wastes?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
4.15	Are construction wastes sorted (inert and non-inert) on site?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____

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
4.16	Are construction wastes reused?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
4.17	Is construction waste disposed of properly?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
4.18	Are site hoardings and signboards made of durable materials instead of timber?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
4.19	Is trip ticket system implemented for the disposal of construction wastes and records available for inspection?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
4.20	Is relevant license/ permit for disposal of construction waste or excavated materials available for inspection?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Photo 1
Section 5: Landscape & Visual							
5.01	Are retained and transplanted trees in health condition?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
5.02	Are retained and transplanted trees properly protected?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
5.03	Are surgery works carried out for the damaged trees?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
5.04	No damage to trees outside site boundary due to construction activities?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Section 6: Hazard to Life							
6.01	Is the security plan addresses different alert security levels?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
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?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
6.03	Is good house-keeping maintained within the site magazine area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
6.04	Is the site magazine kept locked all the time and provided with proper security measures?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
6.05	No delivery vehicles remained within the site secured fence off magazine store area?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
Section 7: Others							
7.01	Are relevant Environmental Permits posted at all vehicle site entrances/exits?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____

Environmental Team –Site Inspection and Environmental Audit Checklist


Follow up Site inspection findings dated: (26 January 2018)

Follow up Site inspection findings	
Nil	NA

Finding Non-compliance in this weekly site inspection:

Nil

Observation in this weekly site inspection: (2 February 2018)

Observation	
 <p>Photo 1 EP should be displayed properly at the site entrance.</p>	

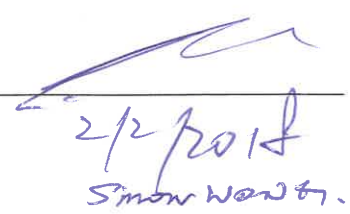
Reminder:

 <p>Stockpile should be covered to reduce dust impact.</p>	 <p>Three protection zone should be set up to prevent damage to the existing tree during the demolish works..</p>
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IEC's representative

ET's representative

Contractor's representative (EO)

2/2 2018
Simon Wong

Name

Ben Tam

Date:

2 February 2018

Environmental Team –Site Inspection and Environmental Audit Checklist

Project: Operation of the Existing Tai Lam Explosives Magazine at Tai Shu Ha, Yuen Long for Liantang/Heung Yuen Wai Boundary Control Point Project **Checklist No:** EP- 502/2015-20180209

Date: 9 February 2018

Time: 15:30

Environmental Permit EP- 502/2015/A

Inspected by:

IEC Nil

ET AUES

Contractor Dragages

PART A: GENERAL INFORMATION

<u>Weather:</u>	Sunny <input checked="" type="checkbox"/>	Fine <input type="checkbox"/>	Cloudy <input type="checkbox"/>	Rainy <input type="checkbox"/>	Temperature: 11 °C
<u>Humidity:</u>	High <input type="checkbox"/>	Moderate <input type="checkbox"/>	Low <input checked="" type="checkbox"/>		
<u>Wind:</u>	Strong <input type="checkbox"/>	Breeze <input type="checkbox"/>	Light <input checked="" type="checkbox"/>	Calm <input type="checkbox"/>	

PART B: SITE AUDIT

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
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Section 1: Water Quality

1.01	Is effluent discharge licence for the Contract obtained?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.02	Is the discharge of turbid water avoided?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.03	Are there proper desilting facilities in the drainage systems to reduce SS levels in effluent?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.04	Are there channels, sandbags or bunds to direct surface run-off to sedimentation tanks?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.05	Are there any perimeter channels provided at site boundaries to intercept storm runoff from crossing the site?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.06	Is drainage system well maintained?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.07	Are earthworks final surfaces well compacted or protected?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.08	Are manholes adequately covered or temporarily sealed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.09	Are there any procedures and equipment for rainstorm protection?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.10	Are there any wheel washing facilities?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.11	Are there wheel washing facilities well maintained?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.12	Is runoff from wheel washing facilities avoided?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.13	Are there toilets provided on site?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.14	Are toilets properly maintained?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.15	Are there any vehicles and plant within the site?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.16	Is the oil leakage or spillage from vehicle or plant avoided?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.17	Are there any measures to prevent leaked oil from entering the drainage system?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.18	Are there any measures to collect spilt cement and concrete washings during concreting works?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
1.19	Are mobile toilets provided on site and located away from the stream course?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.20	Is licensed collector employed for handling the waste generated from mobile toilet?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Section 2: Air Quality

2.01	Are there wheel washing facilities with high pressure jets provided at every vehicle exit point?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.02	Are vehicles washed to remove any dusty materials from their bodies and wheels before leaving construction sites?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2.03	Are the excavated materials sprayed with water during handling?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2.04	Are stockpiles of dusty materials sprayed with water, covered or placed in sheltered areas?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2.05	Are the access roads sprayed with water to maintain the entire road surface wet or paved?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2.06	Is the surface where any drilling, cutting, polishing or breaking operation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Environmental Team –Site Inspection and Environmental Audit Checklist

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2.07	continuously sprayed with water? Is the load on vehicles covered entirely by clean impervious sheeting?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
2.08	Is the loading of materials to a level higher than the side and tail boards during transportation by vehicles avoided?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
2.09	Is the road leading to the construction site within 30m of the vehicle entrance kept clear of dusty materials?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2.10	Is dark smoke emission from plant/equipment avoided?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2.11	Are site vehicles travelling within the speed limit not more than 10km/hour?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2.12	Are hoardings of not less than 2.4m high provided along the site boundary, which adjoins areas accessible to the public?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
2.13	Is open burning avoided?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2.14	All non-road vehicles using on site are granted the emission labels under the regulation?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Section 3: Noise							
3.01	Are noisy equipment and activities positioned as far as practicable from the sensitive receivers?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3.02	Is silenced equipment adopted?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3.03	Is idle equipment turned off or throttled down?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3.04	Are all plant and equipment well maintained and in good condition?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3.05	Are noise barriers or enclosures provided at areas where construction activities cause noise impact on sensitive receivers?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
3.06	Are hand held breakers fitted with valid noise emission labels during operation?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
3.07	Are air compressors fitted with valid noise emission labels during operation?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
3.08	Are flaps and panels of mechanical equipment closed during operation?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3.09	Are Construction Noise Permit(s) applied for percussive piling works or construction activities out of restricted hours?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
Section 4: Waste/Chemical Management							
4.01	Waste Management Plan had been submit to Engineer for approval.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
4.02	Are receptacles available for general refuse collection?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
4.03	Is general refuse sorting or recycling implemented?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
4.04	Is general refuse disposed of properly and regularly?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
4.05	Is the Contractor registered as a chemical waste producer?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
4.06	Are the chemical waste containers properly labelled?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
4.07	Are the chemical wastes stored in proper storage areas?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
4.08	Is the chemical waste storage area properly labelled?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
4.09	Is the chemical waste storage area used for storage of chemical waste only?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
4.10	Are incompatible chemical wastes stored in different areas?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
4.11	Are the chemical wastes disposed of by licensed collectors?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
4.12	Are trip tickets for chemical wastes disposal available for inspection?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
4.13	Are chemical/fuel storage areas bounded?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
4.14	Are designated areas identified for storage and sorting of construction wastes?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
4.15	Are construction wastes sorted (inert and non-inert) on site?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____

Environmental Team –Site Inspection and Environmental Audit Checklist

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4.16	Are construction wastes reused?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
4.17	Is construction waste disposed of properly?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
4.18	Are site hoardings and signboards made of durable materials instead of timber?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
4.19	Is trip ticket system implemented for the disposal of construction wastes and records available for inspection?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
4.20	Is relevant license/ permit for disposal of construction waste or excavated materials available for inspection?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Section 5: Landscape & Visual							
5.01	Are retained and transplanted trees in health condition?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
5.02	Are retained and transplanted trees properly protected?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Photo 3
5.03	Are surgery works carried out for the damaged trees?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
5.04	No damage to trees outside site boundary due to construction activities?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Section 6: Hazard to Life							
6.01	Is the security plan addresses different alert security levels?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
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?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
6.03	Is good house-keeping maintained within the site magazine area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
6.04	Is the site magazine kept locked all the time and provided with proper security measures?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
6.05	No delivery vehicles remained within the site secured fence off magazine store area?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
Section 7: Others							
7.01	Are relevant Environmental Permits posted at all vehicle site entrances/exits?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____

Environmental Team –Site Inspection and Environmental Audit Checklist

Follow up Site inspection findings dated: (2 February 2018)

Follow up Site inspection findings



Photo 1

EP should be displayed properly at the site entrance.



Photo 2

EP was properly display at the site entrance.

Finding Non-compliance in this weekly site inspection:

Nil

Observation in this weekly site inspection: (9 February 2018)

Observation



Photo 3

Construction waste or material should be stored apart from the retaining tree.

Reminder:

As a reminder, tree protection zone should be set up during the demolish work to protect the retaining tree on-site.

IEC's representative

ET's representative

Contractor's representative (EO)

Name

Ben Tam

Joshua Tam

Date:

9 February 2018

14 Feb 2018

Environmental Team –Site Inspection and Environmental Audit Checklist

Project: Operation of the Existing Tai Lam Explosives Magazine at Tai Shu Ha, Yuen Long for Liantang/Heung Yuen Wai Boundary Control Point Project **Checklist No:** EP- 502/2015-20180213

Date: 13 February 2018
Time: 16:30
Environmental Permit EP- 502/2015/A

Inspected by:
IEC Nil
ET AUES
Contractor Dragages

PART A: GENERAL INFORMATION

Weather: Sunny Fine Cloudy Rainy Temperature: 17 °C
Humidity: High Moderate Low
Wind: Strong Breeze Light Calm

PART B: SITE AUDIT

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
---------------------------------------------------------------------------------------------------------------------------------------------------	-----------------	-----	----	-----------	-----	----------------------

Section 1: Water Quality

1.01	Is effluent discharge licence for the Contract obtained?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.02	Is the discharge of turbid water avoided?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.03	Are there proper desilting facilities in the drainage systems to reduce SS levels in effluent?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.04	Are there channels, sandbags or bunds to direct surface run-off to sedimentation tanks?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.05	Are there any perimeter channels provided at site boundaries to intercept storm runoff from crossing the site?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.06	Is drainage system well maintained?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.07	Are earthworks final surfaces well compacted or protected?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.08	Are manholes adequately covered or temporarily sealed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.09	Are there any procedures and equipment for rainstorm protection?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.10	Are there any wheel washing facilities?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.11	Are there wheel washing facilities well maintained?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.12	Is runoff from wheel washing facilities avoided?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.13	Are there toilets provided on site?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.14	Are toilets properly maintained?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.15	Are there any vehicles and plant within the site?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.16	Is the oil leakage or spillage from vehicle or plant avoided?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.17	Are there any measures to prevent leaked oil from entering the drainage system?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.18	Are there any measures to collect spilt cement and concrete washings during concreting works?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
1.19	Are mobile toilets provided on site and located away from the stream course?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.20	Is licensed collector employed for handling the waste generated from mobile toilet?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Section 2: Air Quality

2.01	Are there wheel washing facilities with high pressure jets provided at every vehicle exit point?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.02	Are vehicles washed to remove any dusty materials from their bodies and wheels before leaving construction sites?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2.03	Are the excavated materials sprayed with water during handling?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2.04	Are stockpiles of dusty materials sprayed with water, covered or placed in sheltered areas?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2.05	Are the access roads sprayed with water to maintain the entire road surface wet or paved?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2.06	Is the surface where any drilling, cutting, polishing or breaking operation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

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?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
2.08	Is the loading of materials to a level higher than the side and tail boards during transportation by vehicles avoided?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
2.09	Is the road leading to the construction site within 30m of the vehicle entrance kept clear of dusty materials?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2.10	Is dark smoke emission from plant/equipment avoided?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2.11	Are site vehicles travelling within the speed limit not more than 10km/hour?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2.12	Are hoardings of not less than 2.4m high provided along the site boundary, which adjoins areas accessible to the public?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
2.13	Is open burning avoided?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2.14	All non-road vehicles using on site are granted the emission labels under the regulation?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Section 3: Noise							
3.01	Are noisy equipment and activities positioned as far as practicable from the sensitive receivers?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3.02	Is silenced equipment adopted?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3.03	Is idle equipment turned off or throttled down?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3.04	Are all plant and equipment well maintained and in good condition?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3.05	Are noise barriers or enclosures provided at areas where construction activities cause noise impact on sensitive receivers?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
3.06	Are hand held breakers fitted with valid noise emission labels during operation?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
3.07	Are air compressors fitted with valid noise emission labels during operation?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
3.08	Are flaps and panels of mechanical equipment closed during operation?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3.09	Are Construction Noise Permit(s) applied for percussive piling works or construction activities out of restricted hours?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
Section 4: Waste/Chemical Management							
4.01	Waste Management Plan had been submit to Engineer for approval.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
4.02	Are receptacles available for general refuse collection?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
4.03	Is general refuse sorting or recycling implemented?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
4.04	Is general refuse disposed of properly and regularly?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
4.05	Is the Contractor registered as a chemical waste producer?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
4.06	Are the chemical waste containers properly labelled?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
4.07	Are the chemical wastes stored in proper storage areas?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
4.08	Is the chemical waste storage area properly labelled?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
4.09	Is the chemical waste storage area used for storage of chemical waste only?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
4.10	Are incompatible chemical wastes stored in different areas?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
4.11	Are the chemical wastes disposed of by licensed collectors?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
4.12	Are trip tickets for chemical wastes disposal available for inspection?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
4.13	Are chemical/fuel storage areas bounded?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
4.14	Are designated areas identified for storage and sorting of construction wastes?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
4.15	Are construction wastes sorted (inert and non-inert) on site?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____

Environmental Team –Site Inspection and Environmental Audit Checklist

Note:	Not Obs.: Not Observed; Yes: Compliance; No: Non-Compliance;	Not Obs.	Yes	No	Follow Up	N/A	Photo/ Remarks
Follow Up: Observations requiring follow-Up actions	N/A: Not Applicable						
4.16	Are construction wastes reused?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
4.17	Is construction waste disposed of properly?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
4.18	Are site hoardings and signboards made of durable materials instead of timber?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
4.19	Is trip ticket system implemented for the disposal of construction wastes and records available for inspection?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
4.20	Is relevant license/ permit for disposal of construction waste or excavated materials available for inspection?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Section 5: Landscape & Visual							
5.01	Are retained and transplanted trees in health condition?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
5.02	Are retained and transplanted trees properly protected?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
5.03	Are surgery works carried out for the damaged trees?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
5.04	No damage to trees outside site boundary due to construction activities?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Section 6: Hazard to Life							
6.01	Is the security plan addresses different alert security levels?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
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?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
6.03	Is good house-keeping maintained within the site magazine area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
6.04	Is the site magazine kept locked all the time and provided with proper security measures?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
6.05	No delivery vehicles remained within the site secured fence off magazine store area?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
Section 7: Others							
7.01	Are relevant Environmental Permits posted at all vehicle site entrances/exits?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____

Environmental Team –Site Inspection and Environmental Audit Checklist

Follow up Site inspection findings dated: (9 February 2018)

Follow up Site inspection findings



Photo 1

Construction waste or material should be stored apart from the retaining tree.



Photo 2

Construction waste or material storage near the retaining tree was removed.

Finding Non-compliance in this weekly site inspection:

Nil

Observation in this weekly site inspection: (13 February 2018)

Observation



No environmental issue was observed during the site inspection.

Reminder:

As a reminder, tree protection zone should be set up during the demolish work to protect the retaining tree on-site.

IEC's representative

ET's representative

Contractor's representative (EO)

Name

Ben Tam

Joshua Tam
14 Feb 2018

Date:

13 February 2018

Environmental Team –Site Inspection and Environmental Audit Checklist

Project: Operation of the Existing Tai Lam Explosives Magazine at Tai Shu Ha, Yuen Long for Liantang/Heung Yuen Wai Boundary Control Point Project **Checklist No:** EP- 502/2015-20180223

Date: 23 February 2018
Time: 16:30
Environmental Permit EP- 502/2015/A

Inspected by:
IEC ANewR
ET AUES
Contractor Dragages

PART A: GENERAL INFORMATION

Weather: Sunny Fine Cloudy Rainy Temperature: 15 °C
Humidity: High Moderate Low
Wind: Strong Breeze Light Calm

PART B: SITE AUDIT

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
-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------	------------	-----------	------------------	------------	----------------------

Section 1: Water Quality

1.01	Is effluent discharge licence for the Contract obtained?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.02	Is the discharge of turbid water avoided?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.03	Are there proper desilting facilities in the drainage systems to reduce SS levels in effluent?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.04	Are there channels, sandbags or bunds to direct surface run-off to sedimentation tanks?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.05	Are there any perimeter channels provided at site boundaries to intercept storm runoff from crossing the site?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.06	Is drainage system well maintained?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.07	Are earthworks final surfaces well compacted or protected?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.08	Are manholes adequately covered or temporarily sealed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.09	Are there any procedures and equipment for rainstorm protection?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.10	Are there any wheel washing facilities?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.11	Are there wheel washing facilities well maintained?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.12	Is runoff from wheel washing facilities avoided?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.13	Are there toilets provided on site?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.14	Are toilets properly maintained?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.15	Are there any vehicles and plant within the site?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.16	Is the oil leakage or spillage from vehicle or plant avoided?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.17	Are there any measures to prevent leaked oil from entering the drainage system?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.18	Are there any measures to collect spilt cement and concrete washings during concreting works?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
1.19	Are mobile toilets provided on site and located away from the stream course?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.20	Is licensed collector employed for handling the waste generated from mobile toilet?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Section 2: Air Quality

2.01	Are there wheel washing facilities with high pressure jets provided at every vehicle exit point?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.02	Are vehicles washed to remove any dusty materials from their bodies and wheels before leaving construction sites?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.03	Are the excavated materials sprayed with water during handling?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.04	Are stockpiles of dusty materials sprayed with water, covered or placed in sheltered areas?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.05	Are the access roads sprayed with water to maintain the entire road surface wet or paved?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.06	Is the surface where any drilling, cutting, polishing or breaking operation	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

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?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2.08	Is the loading of materials to a level higher than the side and tail boards during transportation by vehicles avoided?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2.09	Is the road leading to the construction site within 30m of the vehicle entrance kept clear of dusty materials?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2.10	Is dark smoke emission from plant/equipment avoided?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2.11	Are site vehicles travelling within the speed limit not more than 10km/hour?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2.12	Are hoardings of not less than 2.4m high provided along the site boundary, which adjoins areas accessible to the public?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
2.13	Is open burning avoided?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2.14	All non-road vehicles using on site are granted the emission labels under the regulation?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Section 3: Noise							
3.01	Are noisy equipment and activities positioned as far as practicable from the sensitive receivers?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3.02	Is silenced equipment adopted?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3.03	Is idle equipment turned off or throttled down?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3.04	Are all plant and equipment well maintained and in good condition?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3.05	Are noise barriers or enclosures provided at areas where construction activities cause noise impact on sensitive receivers?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
3.06	Are hand held breakers fitted with valid noise emission labels during operation?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
3.07	Are air compressors fitted with valid noise emission labels during operation?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
3.08	Are flaps and panels of mechanical equipment closed during operation?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3.09	Are Construction Noise Permit(s) applied for percussive piling works or construction activities out of restricted hours?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
Section 4: Waste/Chemical Management							
4.01	Waste Management Plan had been submit to Engineer for approval.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
4.02	Are receptacles available for general refuse collection?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
4.03	Is general refuse sorting or recycling implemented?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
4.04	Is general refuse disposed of properly and regularly?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
4.05	Is the Contractor registered as a chemical waste producer?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
4.06	Are the chemical waste containers properly labelled?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
4.07	Are the chemical wastes stored in proper storage areas?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
4.08	Is the chemical waste storage area properly labelled?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
4.09	Is the chemical waste storage area used for storage of chemical waste only?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
4.10	Are incompatible chemical wastes stored in different areas?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
4.11	Are the chemical wastes disposed of by licensed collectors?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
4.12	Are trip tickets for chemical wastes disposal available for inspection?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
4.13	Are chemical/fuel storage areas bounded?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
4.14	Are designated areas identified for storage and sorting of construction wastes?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
4.15	Are construction wastes sorted (inert and non-inert) on site?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____

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
4.16	Are construction wastes reused?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
4.17	Is construction waste disposed of properly?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
4.18	Are site hoardings and signboards made of durable materials instead of timber?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
4.19	Is trip ticket system implemented for the disposal of construction wastes and records available for inspection?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
4.20	Is relevant license/ permit for disposal of construction waste or excavated materials available for inspection?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Section 5: Landscape & Visual							
5.01	Are retained and transplanted trees in health condition?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
5.02	Are retained and transplanted trees properly protected?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
5.03	Are surgery works carried out for the damaged trees?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
5.04	No damage to trees outside site boundary due to construction activities?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Section 6: Hazard to Life							
6.01	Is the security plan addresses different alert security levels?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
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?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
6.03	Is good house-keeping maintained within the site magazine area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
6.04	Is the site magazine kept locked all the time and provided with proper security measures?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
6.05	No delivery vehicles remained within the site secured fence off magazine store area?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
Section 7: Others							
7.01	Are relevant Environmental Permits posted at all vehicle site entrances/exits?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____

Environmental Team –Site Inspection and Environmental Audit Checklist

Follow up Site inspection findings dated: (13 February 2018)


Follow up Site inspection findings	
Nil	NA

Finding Non-compliance in this weekly site inspection:

Nil

Observation in this weekly site inspection: (13 February 2018)

Observation




No environmental issue was observed during the site inspection.

Reminder:

Nil

IEC's representative

ET's representative

Contractor's representative (EO)

[Signature]
 Jack Wong
 23 Feb 2018

[Signature]
 Ben Tam
 23 February 2018

[Signature]
 Joshua Tam
 23 Feb 2018

Name

Date:

Appendix D

IMPLEMENTATION SCHEDULE FOR ENVIRONMENTAL MITIGATION MEASURES (ISEMM)

Implementation Schedule of Recommended Mitigation Measures

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 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	
		Ecological Impact (Operation & Completion of Project)						
S3.5		<ul style="list-style-type: none"> 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). 	<p>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.</p> <p>To ensure the proposed mitigation recommended in the approved XRL EIA for loss of green areas affected by the XRL Project, is implemented.</p>	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.	CoP	<p>XRL EIA Vegetation Survey Report for Tai Shu Ha Road West</p> <p>Tree Planting and Landscape Plan TLP-10: Works in Yuen Long District (Tai Shu Ha)</p> <p>DEVB TCW No. 10/2013 – Tree Preservation (supersedes ETWB TC(W) No. 3/2006)</p>	
		Noise Impact (Operation and Decommissioning)						
S4.4.1		No adverse impacts anticipated.	To ensure good site practices are adopted and noise generation minimized during decommissioning	Contractor for DHK	Approximately one month during decommissioning of the TLEM	D	Recommended Clauses for Construction Contracts – Section 3 - Noise Control	
		Air Quality (Operation and Decommissioning)						
S5		<ul style="list-style-type: none"> Not applicable (n/a) - no adverse impacts anticipated. 	n/a	n/a	n/a	n/a	n/a	

Implementation Schedule of Recommended Mitigation Measures

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
		<i>Waste Management (Operation and Decommissioning)</i>					
S6.5		<ul style="list-style-type: none"> 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. General refuse is removed from the Project Site regularly (i.e. once per day). 	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	<i>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.</i>
S6.5		<ul style="list-style-type: none"> 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	<i>Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes (1992), EPD, Hong Kong Government</i>

Implementation Schedule of Recommended Mitigation Measures

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
		<i>Other (Operation and Decommissioning)</i>					
S7.1		<p>No adverse impacts anticipated. For good measure adopt the following good practice measures:</p> <ul style="list-style-type: none"> 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. 	Minimize construction site runoff during decommissioning	Contractor for DHK	TLEM site /Approximately one month during decommissioning of the TLEM	D	<i>Practice Note for Professional Persons on Construction Site Drainage (ProPECC PN1/94)</i>
S7.1		<ul style="list-style-type: none"> 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	<i>Practice Note for Professional Persons on Construction Site Drainage (ProPECC PN1/94)</i>
S7.1		<ul style="list-style-type: none"> 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	<i>Practice Note for Professional Persons on Construction Site Drainage (ProPECC PN1/94)</i>

Implementation Schedule of Recommended Mitigation Measures

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
S7.1		<ul style="list-style-type: none"> Manholes (including newly constructed 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. 	Minimize construction site runoff during decommissioning	Contractor for DHK	TLEM site / Approximately one month during decommissioning of the TLEM	D	<i>Practice Note for Professional Persons on Construction Site Drainage (ProPECC PN1/94)</i>
S7.1		<ul style="list-style-type: none"> Precautions and actions, as stipulated in Appendix A2 of <i>ProPECC PN1/94</i>, should be taken at any time of year when rainstorms are likely, when a rainstorm is imminent or forecast, or during and after rainstorms. 	Minimize construction site runoff during decommissioning	Contractor for DHK	TLEM site / Approximately one month during Decommissioning of the TLEM	D	<i>Practice Note for Professional Persons on Construction Site Drainage (ProPECC PN1/94)</i>
S7.1		<ul style="list-style-type: none"> To minimize erosion of exposed soil in between the removal of paved area and the re-vegetation / plantation, exposed soil should be covered with geotextile promptly after the removal works. <p>Hazard to Life (Operation - Storage)</p>	Minimize construction site runoff and soil erosion during decommissioning	Contractor for DHK	TLEM site / Approximately one month during Decommissioning of the TLEM	D	-
S8.9.1		<ul style="list-style-type: none"> Ensure the security plan addresses different alert security levels. The corresponding security procedure should be implemented with respect to prevailing security alert status announced by the Government. 	Reduce opportunity for arson/ deliberate initiation of explosives.	DHK	TLEM site / Throughout operation of the Project	O	-
S8.9.1 & S8.9.2 & S8.9.3		<ul style="list-style-type: none"> Emergency plan (i.e. magazine operational 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. 	Minimize risk of uncontrolled fire in TLEM and along transport route	DHK	For TLEM site and Transport route / Throughout operation of the Project	O	-

Implementation Schedule of Recommended Mitigation Measures

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		<ul style="list-style-type: none"> 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	O	-
S8.9.1		<ul style="list-style-type: none"> 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	O	Dangerous Goods Ordinance
S8.9.2		<ul style="list-style-type: none"> 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	O	-
S8.9.2		<ul style="list-style-type: none"> 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	O	-
S8.9.2		<ul style="list-style-type: none"> 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	O	-
S8.9.2		<ul style="list-style-type: none"> 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	O	-
S8.9.2		<ul style="list-style-type: none"> 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	O	-
S8.9.2		<ul style="list-style-type: none"> 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	O	-

Implementation Schedule of Recommended Mitigation Measures

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 style="list-style-type: none"> 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	O	-
S8.9.2		<ul style="list-style-type: none"> 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	O	-
S8.9.2		<ul style="list-style-type: none"> 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	O	-
S8.9.2		<ul style="list-style-type: none"> 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	O	-
<i>Hazard to Life (Operation - Transport)</i>							
S8.9.1		<ul style="list-style-type: none"> 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	O	-
S8.9.1		<ul style="list-style-type: none"> 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	O	-
S8.9.1		<ul style="list-style-type: none"> 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	O	-

Implementation Schedule of Recommended Mitigation Measures

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		<ul style="list-style-type: none"> 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	O	-
S8.9.1		<ul style="list-style-type: none"> 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	O	-
S8.9.1		<ul style="list-style-type: none"> 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. All explosive vehicles should be equipped with the required amount and type of fire extinguishers and shall be agreed with Mines Division. 	Minimize explosive truck fire involvement frequency.	Contractor for DHK	Transport route/ Throughout operation of the Project	O	-
S8.9.3		<ul style="list-style-type: none"> 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		<ul style="list-style-type: none"> 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	O	-
S8.9.3		<ul style="list-style-type: none"> 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	O	-
S8.9.3		<ul style="list-style-type: none"> 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	O	-

Implementation Schedule of Recommended Mitigation Measures

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 style="list-style-type: none"> 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	O	-
S8.9.3		<ul style="list-style-type: none"> 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	O	-
S8.9.3		<ul style="list-style-type: none"> 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	O	-
S8.9.3		<ul style="list-style-type: none"> 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	O	-

Implementation Schedule of Recommended Mitigation Measures

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		<p>Vehicles should meet Licenced Vehicle Safety Requirements including:</p> <ul style="list-style-type: none"> • Mobile telephone equipment; • Battery isolation switch; • Front mounted exhaust with spark arrestor; • Fuel level should be kept as far as possible to the minimum level required for the transport of explosives; • Minimum 1 × 9 kg water based AFFF fire extinguisher to be provided; • Minimum 1 × 9 kg dry chemical powder fire extinguisher to be provided; • 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; • Cigarette lighter removed; • Two (2) battery powered torches for night deliveries. 	Prevent fire spreading and reducing likelihood of prolonged fire leading to explosion.	Contractor for DHK	Transport vehicle/ Throughout operation of the Project	O	CEDD's <i>Guidance Note on Requirements for Approval of an Explosive Delivery Vehicle</i>
S8.9.3		<p>Vehicles shall be dedicated explosive transport vehicles and should be maintained in good operating condition;</p> <ul style="list-style-type: none"> • Daily checks on tyres and vehicle integrity. • Regular monthly vehicle inspections for fuel system, exhaust system, brakes, electrics, battery, cooling system and engine oil leaks. • Vehicle log book in which monthly inspections and maintenance requirements are recorded 	Ensure vehicle remains as safe as possible	Contractor for DHK	Transport vehicle/ Throughout operation of the Project	O	-

Implementation Schedule of Recommended Mitigation Measures

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S8.9.3		<ul style="list-style-type: none"> • Drivers should be selected based on good safety record, and medical checks. Use only experienced driver(s) with good safety record. • 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. • Drivers should attend training courses provided by the explosives manufacturer or distributor, covering: <ul style="list-style-type: none"> - explosives identification; - explosion hazards; and - explosives sensitivity; - dangers which could be caused by the types of explosives; - packaging, labelling and characteristics of the types of explosives; - the use of fire extinguishers and firefighting procedures; and - emergency response procedures in case of accidents. 	Minimize explosive truck accident frequency and/ or severity.	Contractor for DHK	Vehicle driver for Transport route / Throughout operation of the Project	O	-

Implementation Schedule of Recommended Mitigation Measures

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 style="list-style-type: none"> 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. The MSDS and Removal Permit (where applicable) shall be produced to any officer of the Minds Division of CEDD upon request. 	Minimize explosive truck accident frequency and/ or severity.	Contractor for DHK	Vehicle driver for Transport route/ Throughout operation of the Project	O	-
S8.9.3		<ul style="list-style-type: none"> Explosive Vehicle Attendants shall: <ul style="list-style-type: none"> - Be the assistant to the driver in normal working conditions and in case of any emergency - Be conversant with the emergency response procedures - Be competent to use the fire extinguishers and the vehicle emergency cut-off switches - At least one of the vehicle attendant(s) should be equipped with a mobile phone and the relevant MSDS and emergency response plan 	Reduce number of journeys required	Contractor for DHK	Vehicle driver attendants for Transport route/ Throughout operation of the Project	O	-
S8.9.3		<p>For explosive selection, the following should be considered:</p> <ul style="list-style-type: none"> Cartridged Emulsions with perchlorate formulation should be avoided Cartridged Emulsions with high water content should be preferred. 	To meet the ALARP requirement.	Contractor for DHK	For TLEM site and Transport route / Throughout operation of the Project	O	-

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

EP-502/2015

*Operation of the Existing Tai Lam Explosives Magazine at Tai Shu Ha, Yuen Long
for Liantang/Heung Yuen Wai Boundary Control Point Project*

*24th Monthly Environmental Monitoring and Audit (EM&A) Report for February
2018*

Appendix E

LETTER TO MINES DIVISION TO RETURN LICENSE AND STOCK BOOK

Your Ref.:

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

Date: 17th 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 15th August 2017, the Tai Shu Ha Magazine (Purple 131) will close after site inspection on 17th August 2017.

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


Daniel ALTIER
Project Director

DAL/A/P/VAY/TKH

Encl.

c.c.: AECOM - Mr Francis Leong

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 傳真 : +852 2171 3299

香港寶嘉建築有限公司

工地辦事處：粉嶺沙頭角公路及禾徑山路交界

郵寄地址：粉嶺郵政局郵箱541號

總寫字樓：香港北角英皇道510號港運大廈3樓

www.dragageshk.com

By Hand

Confidential: Yes No		
BKL/TW (CV/2012/08)		
	ACT	INFO
PD-DAL		X
EPD		X
GCM		
TBM		
Tredi		
MV & S		X
Building		
Survey		
Plant		
Procurement		
TM		
Design		
Method		
Planning		
Geotechnical		
COM		
QSE		

Endorsed by the AECOM


Kelvin Ma
Blasting Competent Supervisor

Appendix F

MONTHLY SUMMARY WASTE FLOW TABLE



Contract No. CV/2012/08

Liantang / Heung Yuen Wai Boundary Control Point
Site Formation and Infrastructure Works – Contract 2

MONTHLY SUMMARY WASTE FLOW TABLE - TLEM

FOR: 2018

Month	Actual Quantities of Inert C&D Materials Generated Monthly						Actual Quantities of C&D Wastes Generated Monthly				
	Total Quantity Generated	Hard Rock 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 ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000 kg)	(in '000 kg)	(in '000 kg)	(in '000 kg)	(in '000m ³)
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											
Apr											
May											
June											
Sub-total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.1875
July											
Aug											
Sep											
Oct											
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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.1875

Assumption: 1m³ of inert material weight 2.2 tonne 1m³ of non-inert material weight 1.6 tonne 1m³ of chemical waste weight 0.88 tonne