# PROJECT PROFILE 工程項目簡介

MTR Corporation Limited 香港鐵路有限公司

Decommissioning of the Magazine Site at Victoria Road for West Island Line (WIL)

解除西港島綫堅尼地城爆炸品倉庫的運作

January 2013 2013年1月

## **Environmental Resources Management**

16/F DCH Commercial Centre, 25 Westlands Road, Quarry Bay Hong Kong

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GMS#0180138

For and on behalf of

代表

ERM-Hong Kong, Limited

香港環境資源管理顧問有限公司

Approved by:

批核 :

溫志雄 (Mr Frank Wan)

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## **CONTENTS**

1	BASIC INFORMATION	1
1.1	PROJECT TITLE	1
1.2	PURPOSE AND NATURE OF THE PROJECT	1
1.3	NAME OF PROJECT PROPONENT	1
1.4	LOCATION AND SCALE OF PROJECT AND HISTORY OF THE PROJECT SITE	1
1.5	Number and Types of Designated Projects to be Covered by the Proj Profile	JECT 2
1.6	NAME AND TELEPHONE NUMBER OF CONTACT PERSON	2
2	OUTLINE OF PLANNING AND IMPLEMENTATION PROGRAMME	3
3	POSSIBLE IMPACT ON THE ENVIRONMENT	4
3.1	MAJOR DECOMMISSIONING WORKS ACTIVITIES	4
3.2	POSSIBLE ENVIRONMENTAL IMPACTS	4
4	MAJOR ELEMENTS OF THE SURROUNDING ENVIRONMENT	6
5	ENVIRONMENTAL PROTECTION MEASURES TO BE INCORPORATE IN THE DESIGN AND ANY FURTHER ENVIRONMENTAL IMPLICATION	
5.1	AIRBORNE CONSTRUCTION NOISE IMPACT	7
5.2	AIR QUALITY	9
5.3	Waste Management	9
<b>5.4</b>	WATER QUALITY	10
6	COMMENT ON POSSIBLE SEVERITY, DISTRIBUTION AND DURATION	)N
	OF ENVIRONMENTAL EFFECTS	11
7	USE OF PREVIOUSLY APPROVED EIA REPORT	12
	List of ANNEXES	
Annex A	As-built Drawings of the Magazine Site at Kennedy Town for WIL	
Annex B	Construction Noise Impact Assessment	

## 1 BASIC INFORMATION

## 1.1 PROJECT TITLE

Decommissioning of the Magazine Site at Victoria Road for West Island Line (the Project)

### 1.2 PURPOSE AND NATURE OF THE PROJECT

To support the construction of West Island Line (WIL), a temporary magazine was constructed in 2010 under the western side of Mount Davis off Victoria Road in Kennedy Town for the storage of explosives that would be supplied and delivered by the Mines Division of the Civil Engineering and Development Department (CEDD). The potential environmental impacts associated with the construction and operation of the magazine had been assessed in the approved WIL EIA Report (1).

Under the agreement with the relevant Government departments, MTR Corporation is required to decommission and reinstate the magazine upon completion of the blasting works for WIL.

Gammon Nishimatsu WIL Joint Venture (GNWILJV) has been appointed by MTR Corporation to undertake the construction of WIL Works Contract No. 704, which includes the operation, management and decommissioning of the magazine.

This Project is to decommission the existing explosives magazine which was constructed to support the construction of WIL upon completion of the blasting works for WIL. Any surplus explosives would be returned to Mines Division before the commencement of the decommissioning works.

#### 1.3 NAME OF PROJECT PROPONENT

MTR Corporation Limited (MTR Corporation)

#### 1.4 LOCATION AND SCALE OF PROJECT AND HISTORY OF THE PROJECT SITE

The Project Site is located off Victoria Road, at the western side of Mount Davis in Kennedy Town (*Figure 1.1*). The Project Site was a former ammunitions store with restricted access and platform of land for access, such that formation of access road and platform was required as part of the construction of the magazine.

The Project Site comprises an underground U-shape access tunnel to the explosives storage chambers with a total storage capacity of approximately

West Island Line Environmental Impact Assessment, Final EIA Report (EIA Register No.: AEIAR-126/2008).

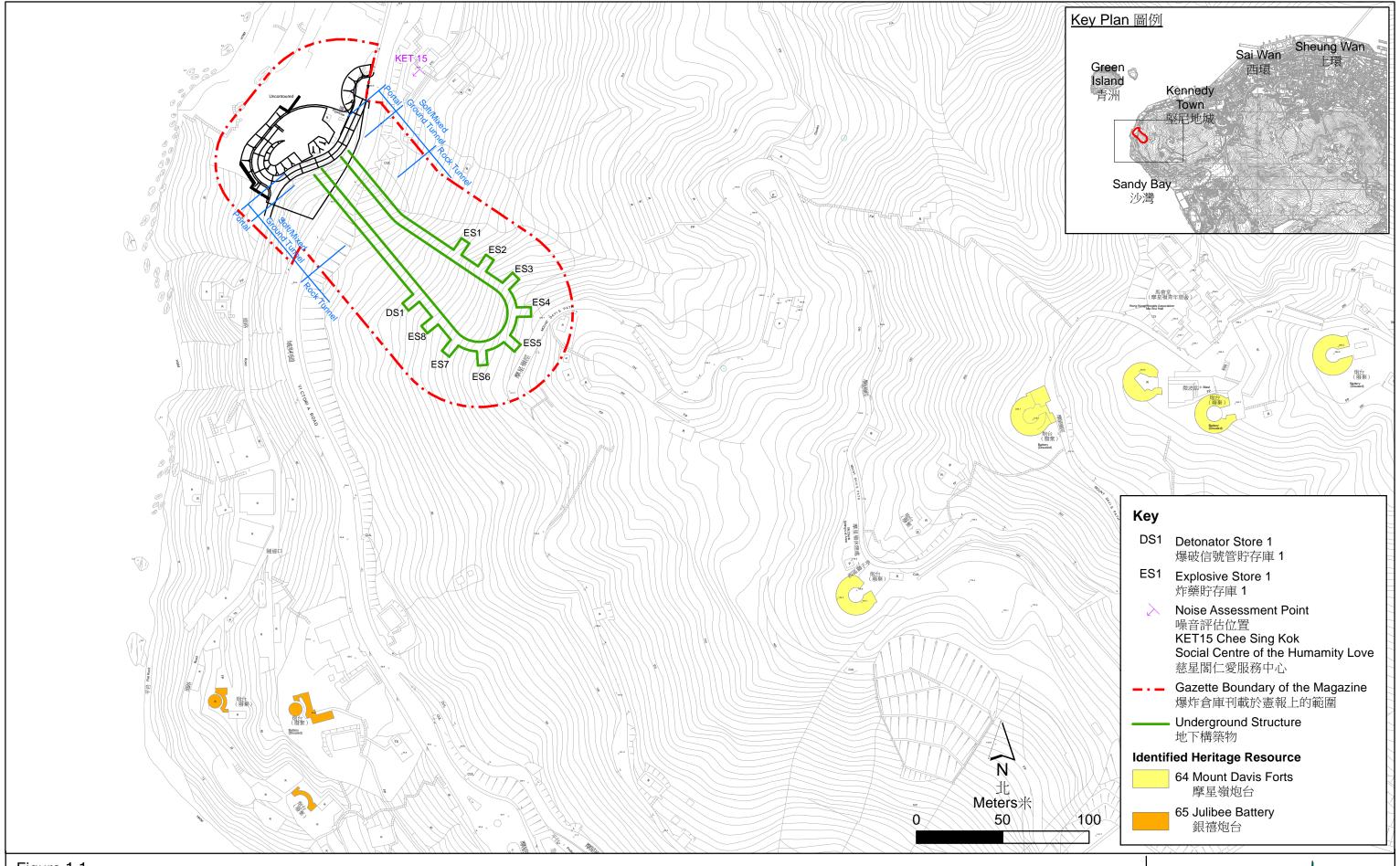


Figure 1.1 圖 1.1

Location of Magazine at Kennedy Town for WIL and the Surrounding Environment 堅尼地城西港島綫爆炸品倉庫及附近的環境

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Environmental Resources Management



2,400 kg explosives. The tunnel portals of the access tunnel were built on a flat platform next to Victoria Road at a level of approximately +35 mPD. The underground U-shape tunnel and chambers, and the ground platform cover areas of approximately 2,400 sq m and 2,200 sq m, respectively. The as-built drawings of the Project Site are presented in *Annex A*.

## 1.5 NUMBER AND TYPES OF DESIGNATED PROJECTS TO BE COVERED BY THE PROJECT PROFILE

The decommissioning of the magazine is classified as a Designated Project under *Schedule 2*, Part II, Item 11 of the *Environmental Impact Assessment Ordinance* (EIAO) – decommissioning of an explosives depot.

### 1.6 NAME AND TELEPHONE NUMBER OF CONTACT PERSON

Name: Mr Richard Kwan

Title: Environment Manager

Phone No: 2688 1179

## 2 OUTLINE OF PLANNING AND IMPLEMENTATION PROGRAMME

The tentative start date for the decommissioning works is around second quarter of 2013 and the tentative completion date is around fourth quarter of 2013 to first quarter of 2014. An indicative programme is presented in *Annex B1*.

This Project will be implemented by Gammon Nishimatsu WIL Joint Venture (GNWILJV) appointed by MTR Corporation.

The shortest distance between the Project Site boundary and the nearest Work Site A1 for WIL is approximately 430m. It is not anticipated that the Project would have any interaction with other projects in the surrounding area, including WIL.

## 3.1 MAJOR DECOMMISSIONING WORKS ACTIVITIES

The key activities of the decommissioning works include dismantling and removal of the fire services and E&M services installed inside the explosive chambers and along tunnel adit, demolition of concrete bunch retaining wall and removal of external services such as fibre glass water tanks, pump room, temporary office, temporary steel works and road furniture/lighting.

#### 3.2 POSSIBLE ENVIRONMENTAL IMPACTS

As described in *Section 3.1* above, the decommissioning works are considered small in scale and will involve dismantling, demolition and removal of the temporary structures. No removal of existing vegetation will be required.

During the decommissioning works, about 10 workers are expected to be on the Project Site at any one time. *Table 3.1* identifies the potential environmental impacts that may arise from the decommissioning of the magazine. The key potential environmental impacts are related to noise, air quality and waste management during the decommissioning works.

Table 3.1 Potential Environmental Impacts Arising from the Project

Potential Impact							
Gaseous Emission	-						
• Dust	✓						
• Odour	-						
• Noise	✓						
Night-Time Operations	-						
• Traffic (Land)	-						
Liquid Effluents, Discharge or Contaminated Runoff	_						
Generation of Waste or By-products	✓						
<ul> <li>Manufacturing, Storage, Use, Handling, Transport, or Disposal of Dangerous Goods</li> </ul>	-						
Hazard to life							
Disposal of Spoil Material	-						
Disruption of water movement or bottom sediment	-						
Unsightly visual Appearance	_						
Cultural and Heritage	_						
Terrestrial Ecology	-						
Cumulative Impacts							
<b>Note:</b> '✓' = Possible; '-' = Not Expected							

As the decommissioning works will only involve dismantling, demolition and removal of the existing temporary structures, and removal of existing

vegetation will not be required, no landscape and visual impact and terrestrial ecology impact are anticipated.

Confirmation from Mines Division has been sought by the GNWILJV that any surplus explosives will be returned to Mines Division before the commencement of the decommissioning works. Based on this, no hazard to life impact is anticipated.

The decommissioning works will not involve any tunnel boring or blasting activities, and hence no vibration impact on the identified heritage resources is anticipated.

In accordance with the approved WIL EIA Report, no sign of contamination was identified at the Project Site (named as Works Area MA in the approved EIA Report). As the site is used as a magazine for storage of explosives only, there is no chemical store and use of lubricant or other chemicals are not required. The magazine was paved. Any surplus explosives would be returned to Mines Division before the commencement of the decommissioning works. Based on the above-mentioned, no land contamination impact is anticipated due to the decommissioning works.

Due to the small scale of construction works, construction site runoff and drainage from the works areas will be very minimal, and water quality impact is not anticipated due to the decommissioning works.

Further details on the consideration of the potential environmental impacts are provided in subsequent sections.

### 4 MAJOR ELEMENTS OF THE SURROUNDING ENVIRONMENT

The surrounding environment of the Project Site is shown in *Figure 1.1*. The Project Site is located on a steep wooded hillside running down to the coast and is in an area of Quaternary Debris Flow Deposits. The only known usage of the Project Site is as a short lived World War II Battery, which was constructed in 1939 and destroyed in 1974. As concluded in the approved WIL EIA Report, there is no potential for archaeological deposits to be located in the magazine site. The existing magazine at the Project Site was constructed in 2010 to support the construction of WIL.

The majority of the area within 500m from the Project Site is Mount Davis with some residential developments at the foothill area at the waterfront and along Mount Davis Road, and some scattered government, institution or community (GIC) uses. The nearest sensitive receiver is identified as the Chee Sing Kok Social Centre of the Humanity Love (No. 410 – 411 Victoria Road), for residential use, located at approximately 25m from the Project Site boundary in the northeast. Caritas Jockey Club Hostel – Mount Davis (No. 405 – 406 Victoria Road) is vacant. Environmental Protection Department Waste Facilities Business Unit is located at more than 250m to the north-east of the Project Site. Other residential developments of The Sail at Victoria and No. 68 Mount Davis Road are located at approximately 390m to the north-east and 280m to the south of the Project Site.

The nearest heritage resources are identified as Mount Davis Forts and Jubilee Battery (both not yet graded), which are located at approximately 50m and 75m from the Project Site boundary in the south, respectively.

#### 5.1 AIRBORNE CONSTRUCTION NOISE IMPACT

## 5.1.1 Environmental Legislation, Standards and Guidelines

The Technical Memorandum on Environmental Impact Assessment Process (EIAO-TM) stipulates assessment standards of  $L_{eq(30 \text{ minutes})}$  75 dB(A) for all domestic premises and 70/65 dB(A) for educational institutions during normal school term/examination periods for daytime (ie 0700 to 1900 hours on any day not being a Sunday or general holiday) construction activities. These criteria apply to Noise Sensitive Receivers (NSRs) relying only on openable windows for ventilation.

## 5.1.2 Identified Noise Sensitive Receiver

In accordance with Table 3.3 of the WIL EIA Report, one representative NSR was identified and listed in *Table 5.1a*. No new NSRs were identified since the approval of the WIL EIA Report. The location of the identified NSR is presented in *Figure 1.1*.

Table 5.1a Representative Noise Sensitive Receiver

NSR No.	Description	Type	No. of Storey
KET 15	Chee Sing Kok Social Centre of the Humanity Love (No. 410 – 411 Victoria Road)	Residential	2

#### Note:

Recent site inspection confirmed that the name of KET15 has been changed to Chee Sing Kok Social Centre of the Humanity Love.

## 5.1.3 Construction Plant Inventory and Programme

The use of Powered Mechanical Equipment (PME) for the decommissioning works activities will be the major source of construction noise impact on the nearby NSR. The decommissioning works will involve dismantling, demolition and removal of the temporary structures. The PME that will be used will include crane lorry, lifting platform, drill/grinder, excavator, dump truck, excavator-mounted breaker, concrete crusher, ventilation fans and generator. The construction programme and plant inventory provided by GNWIL JV are presented in *Annexes B1* and *B2*.

## 5.1.4 Assessment Methodology and Assumptions

Assessment Methodology

Reference has been made to the WIL EIA Report, EIAO-TM and *Technical Memorandum on Noise from Construction Work other than Percussive Piling* (GW-TM) for the assessment methodology, which is summarised as follows:

- Locate representative NSRs that may be affected by the Project;
- Determine the plant teams for corresponding activities, based on the agreed plant inventory;
- Assign sound power levels (SWLs) to the PME proposed based on the GW-TM;
- Calculate the correction factors based on the distance between the NSRs and the notional noise source position of the work site;
- Apply corrections in the calculations, such as potential screening effects and acoustic reflection, if any; and
- Predict the construction noise levels at NSRs in the absence of any mitigation measures.

The potential noise impacts on the identified NSRs were subsequently evaluated by comparing the predicted noise levels with the EIAO-TM day-time construction noise criteria ( $L_{eq, 30min}$  dB(A)).

#### Reduced Utilisation Rates

In reality, some of the PME will not be operated continuously within the work site. Reduced utilisation rates for some PME adopted in the assessment are summarised in *Table 5.1b*. The utilisation rates are determined based on the actual works to be carried out. As advised by GNWIL JV, the majority of the wall will be demolished using concrete crusher. The excavator mounted breaker will be used to demolish the rest of the wall. The utilisation rates are considered realistic and practicable in achieving the construction programme by GNWIL JV.

## Table 5.1b Utilization rates for PME

PME	Utilisation rate
Crane lorry, lifting platform, generator and dump truck	15% - 50%
Drill/grinder, excavator-mounted breaker	15%
Excavator, concrete crusher	50%

#### 5.1.5 Evaluation of Impact - Unmitigated

The predicted façade noise levels are in the range of 62 to 74dB(A) at the representative NSR, ie comply with the day-time construction noise criterion for residential premises. Detailed calculations are provided in *Annex B3*.

As the results indicate no exceedance over the day-time construction noise criterion for residential premises, noise mitigation measures are not required.

## 5.1.6 Construction Site Management Measures for Noise Control

Implementation of standard construction site management measures for noise control, such as the use of well-maintained construction plant and planning of the construction plant team, will be sufficient to ensure compliance with the construction noise criterion.

## 5.2 AIR QUALITY

The nearest Air Sensitive Receiver (ASR) is identified as the Chee Sing Kok Social Centre of the Humanity Love (No. 410 – 411 Victoria Road), which is at a distance of about 25m to the northeast of the Project site.

Dust may arise from general construction works including minor dismantling, demolition and removal of temporary structures. With respect to the nature and the small scale of the decommissioning works, the number of mobile plant to be used on site at any one time will be small, and all works will be conducted on a paved site, the potential air quality impact (including air emission and odour) to the identified ASR is expected to be minimal. With the implementation of dust suppression measures stipulated under the *Air Pollution Control (Construction Dust) Regulation* and the adoption of good site practice, includes covering of dusty stockpiles or the exposed excavated soil surfaces (if any) with impervious sheeting, no adverse air quality impact of the decommissioning works is expected.

#### 5.3 WASTE MANAGEMENT

The major types of solid waste likely to be generated from the decommissioning works include construction and demolition (C&D) materials, chemical wastes and general refuse. Negligible amount of rock or spoil will be generated, and only small amount of metal will be generated from the decommissioning works. Owing to the small scale of works, the amount of C&D materials generated will be limited, approximately  $10 \, \mathrm{m}^3$ . Based on the above, the potential impacts associated with the handling and disposal of C&D materials due to the decommissioning works are considered negligible.

The decommissioning works will involve only a very small number of construction equipment. The quantities of chemical waste to be generated from regular maintenance of equipment will be minimal. All chemical wastes will be handled in accordance with the EPD's Code of Practice on the Packaging Labelling and Storage of Chemical Waste and a licenced collector will be employed for the collection of the chemical waste generated to the licenced disposal facilities (eg Chemical Waste Treatment Facility at Tsing Yi). Hence, no adverse environmental impact is anticipated due to the management of a small quantity of chemical waste to be generated from the Project. With proper housekeeping measures and refuse collection in place, minimal or no impact is expected to result from refuse generated (up to about 6 kg per day) during the decommissioning works. The C&D materials and general refuse will be disposed of at Tuen Mun Area 38 Fill Bank and SENT Landfill, respectively.

To minimise the amount of waste, careful design, comprehensive planning and 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. Chemical waste generated from the demolition works will be properly stored in accordance with *Code of Practice on the Packaging, Labelling and Storage of Chemical Waste* published by the EPD before collection for disposal by a licensed Chemical Waste Collector. The quantity of general refuse generated on-site will be minimal owing to the small number of workers involved. General refuse will be disposed of on a daily basis.

## 5.4 WATER QUALITY

The decommissioning works that may have the potential to generate silty surface runoff are expected to include minor dismantling, demolition and removal of temporary structures. Adverse water quality impact is therefore not expected with the implementation of proper site runoff control measures considering the small scale and short duration of works activities. Water quality impact on other fresh water courses from the works is also unlikely as none were observed in proximity to the Project Site.

Appropriate measures will be implemented in accordance with the guidelines stipulated in EPD's *Practice Note for Professional Persons on Construction Site Drainage (ProPECC PN1/94)* during the construction works to properly control site run-off and drainage and to minimise potential water quality impacts.

## 6 COMMENT ON POSSIBLE SEVERITY, DISTRIBUTION AND DURATION OF ENVIRONMENTAL EFFECTS

The scale of the decommissioning works is relatively small and will last for about seven months. The overall environmental impacts potentially arising from the Project are considered to be very minor. With the implementation of appropriate environmental control measures discussed in the preceding sections, no adverse environmental impacts are anticipated.

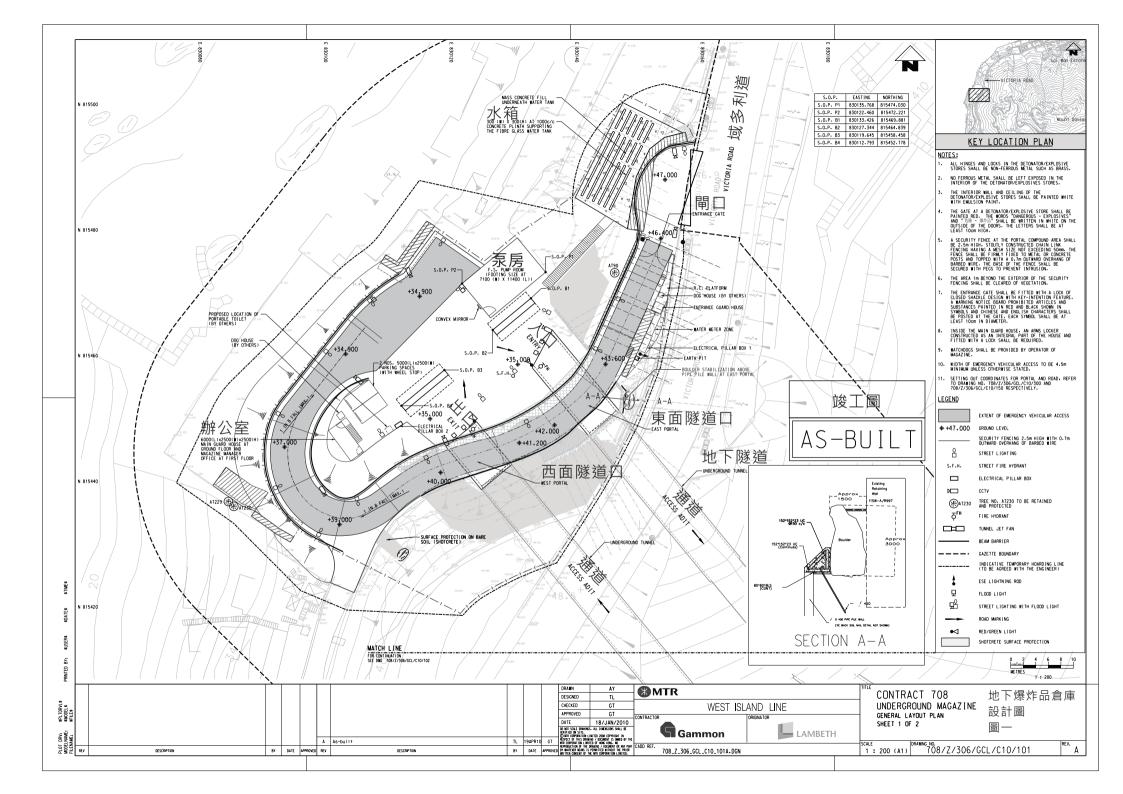
## 7 USE OF PREVIOUSLY APPROVED EIA REPORT

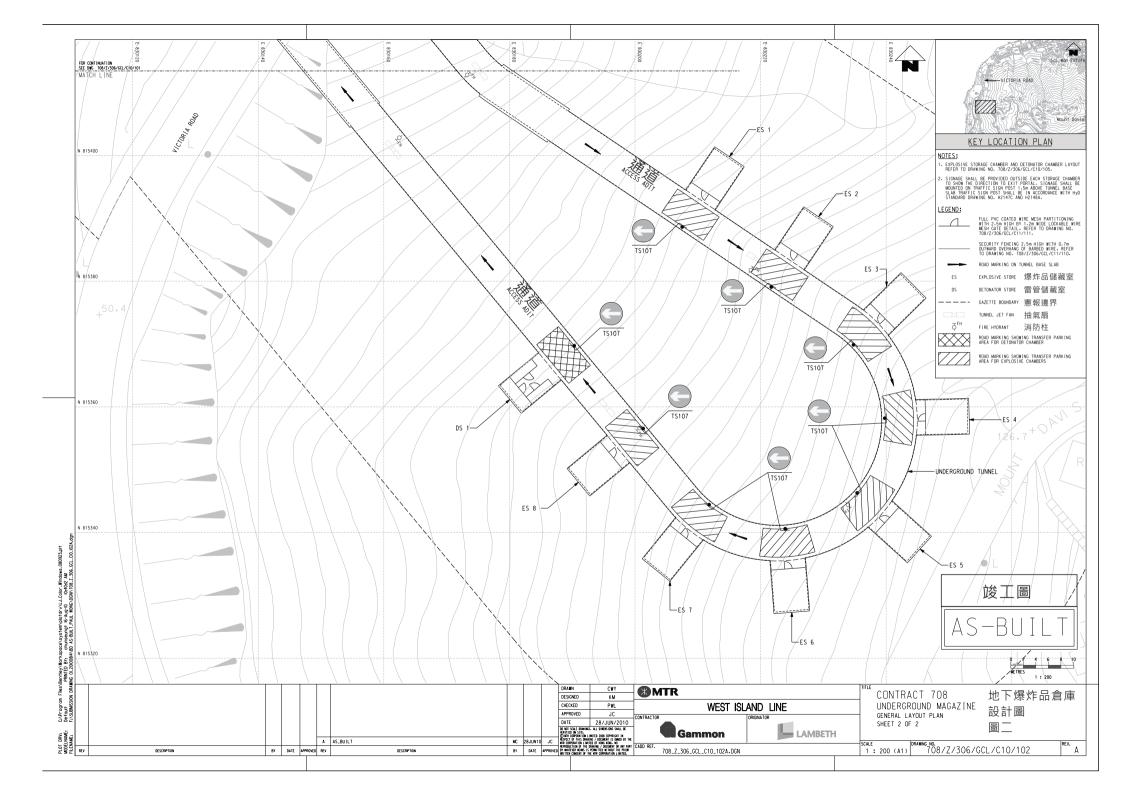
Reference has been made to the following approved WIL EIA Report:

West Island Line Environmental Impact Assessment, Final EIA Report (EIA Register No.: AEIAR-126/2008), which was approved on 23 Dec 2008.

Annex A 附錄甲

As-built Drawings of the Magazine Site at Kennedy Town for WIL 西港島綫堅尼地城爆炸品倉庫的竣工圖





Annex B 附錄乙

Construction Noise Impact Assessment 建築噪音影響評估

## Annex B1: Preliminary Construction Programme

## 附錄 B1: 初步施工流程圖

No.	Activity Description	WorkSite 工地號			nth 1			Month			Montl wk2 w			Montl wk2 w			Month 5 wk2 wk3		Mont wk1 wk2 w			nth 7 2 wk3 wk4
號數	工序描述																					
	Daytime Period 日間																					
1	Chamber - Dismantle E&M / FSD / CCTV / Lighting / Pump Pies services 儲藏室- 拆除機電/消防 / 閉路電視 / 照明 / 泵管設備	MA	Y	Y																		
2	Tunnel adit - Dismantle E&M/ FSD/ CCTV/ Lighting/Pump Pies services 隧道内- 拆除機電/消防/閉路電視/照明/泵管設備	MA	Y	Y																		
3	Temporary rock filling platform setup to break the upper part of concrete bunch retaining wall 臨時填石搭建平臺以打破混凝土擋土牆的上部份	MA	Y	Y	Y																	
4	Break the upper part of wall 打破墻的上部份	MA				Y	Y															
5	Frame cut the rebars during breaking works 在打破工程中,切割鋼筋	MA				Y	Y															
6	Remove the temporary rock filling platform 移除臨時填石平臺	MA					)	( Y														
	Break the lower part of wall 打破墙的下部份	MA							Y	Y												
	Frame cut the rebars during breaking works 在打破工程中,切割鋼筋	MA							Y	Y												
	Remove the concrete debris 移除混凝土碎片	MA									Y Y											
10	Remove all FSD facilities/ pipes/ pumps of the FSD concrete room and all ground services 移除所有消防混凝土房裏的消防設施/管道/泵和所有地面設備	MA	Y	Y	Y	Y	Y Y	Y	Y	Y	Y											
11	Remove water tanks 移除水箱	MA									Y	Y	Y	Y Y	Y	Y	Y Y	Y				
12	Break and remove FSD concrete room 打破和移除消防混凝土房間	MA									•	Y	Y	Y								
13	Remove any temporary steel works 移除任何臨時鋼鐵支架	MA																	Y Y	Y	Y	

## 附錄 B2: 施工時使用的機動設備

No. 號數	Activities 工序	PME 機動設備	TM Ref. 技術備忘錄的 辨認代碼/ BS 5228	No. of PME 數量	time %	Unit SWL 聲功率級 (分貝(A))	Type of Noise Control 控制噪音類別	Noise reduction 聲功率修正, dB(A)	SWL 修正後的 聲功率級, dB(A)	Total SWL 聲功率級總 數, dB(A) <sup>[1]</sup>
	1 Chamber - Dismantle E&M/ FSD/ CCTV/ Lighting/Pump Pies services 儲藏室-	Lorry, with crane, 5.5 tonne < gross vehicle weight < 38 tonne 吊機,貨車,5.5噸<車輛總重<38噸	CNP 145	1	25%	105	Operating inside tunnel 在隧道內運作	-10	89	98
	新秦里 拆除機電/消防/閉路電視/照明/泵管設備	Lifting platform 升降平臺	BS C4 57	1	25%	95	Operating inside tunnel 在隧道內運作	-10	79	
		Drill/grinder, hand-held (electric) 鑽/磨機,手提型(電動)	CNP 065	1	15%	98	Operating inside tunnel 在隧道內運作	-10	80	
		Ventilation fan 抽氣扇	CNP 241	3	100%	108	Silencer 消音器	-15	98	
	2 Tunnel adit - Dismantle E&M/FSD/CCTV/Lighting/Pump Pies services 腱道内- 拆除機電/消防/閉路電視/照明/泵管設	Lorry, with crane, 5.5 tonne < gross vehicle weight < 38 tonne 吊機,貨車・5.5噸<車輛總重<38噸	CNP 145	1	25%	105	Operating inside tunnel 在隧道內運作	-10	89	98
	斯林汉电/内约/内西电池/兴沙/永昌政 備	Lifting platform 升降平臺	BS C4 57	1	25%	95	Operating inside tunnel 在隧道內運作	-10	79	
		Drill/grinder, hand-held (electric) 鑽/磨機,手提型(電動) Ventilation fan 抽氣扇	CNP 065 CNP 241	3	15% 100%	98	Operating inside tunnel 在隧道內運作 Silencer 消音器	-10 -15	80 98	
	3 Temporary rock filling platform	Excavator/loader, wheeled/tracked	CNP 081	1	50%	112	Shericer /A e ad	-13	109	110
	setup to break the upper part of concrete bunch retaining wall 臨時填石搭建平臺以打破混凝土擋土牆的上部份	控土機/搬土機。輸動式/履帶式 Dump truck, 5.5 tonne < gross vehicle weight < 38 tonne 卸土車,5.5噸<車輛總重<38噸	CNP 068	2		105			105	110
	4 Break the upper part of wall 打破墻的上部份	Breaker, excavator mounted (hydraulic) 破碎機,裝在挖土機上(油壓)	CNP 028	1	15%	122 103			114	114
		Concrete crusher, excavator mounted 混凝土破碎機,裝在挖土機上 Dump truck, 5.5 tonne < gross vehicle weight <	CNP 068	1	50% 15%	105			97	
		38 tonne 卸土車,5.5噸<車輛總重<38噸	C141 000	•	1070	100			-	
	5 Frame cut the rebars during breaking works 在打破工程中,切割鋼筋	Generator, silenced, 75dB(A) at 7m 發電機,低噪音型在7米距離時75分貝(A)	CNP 102	1	50%	100			97	101
		Lifting platform 升降平臺 Lorry, with crane, 5.5 tonne < gross vehicle weight < 38 tonne	BS C4 57 CNP 145	1	50% 15%	95 105			92 97	
	CD d COU	吊機,貨車,5.5噸<車輛總重<38噸	CNID 001	1	F00/	110			100	110
	6 Remove the temporary rock filling platform 移除臨時填石平臺	Excavator/loader, wheeled/tracked 挖土機/搬土機,輪動式/履帶式	CNP 081 CNP 068	1		112 105			109	110
		Dump truck, 5.5 tonne < gross vehicle weight < 38 tonne 卸土車,5.5噸<車輛總重<38噸	CNP 068	2	50%	105			105	
	7 Break the lower part of wall 打破墙的下部份	Breaker, excavator mounted (hydraulic) 破碎機,裝在挖土機上(油壓)	CNP 028	1	15%	122			114	114
		Concrete crusher, excavator mounted 混凝土破碎機,裝在挖土機上	CNP 055	1	50%	103				
		Dump truck, 5.5 tonne < gross vehicle weight < 38 tonne 卸土車,5.5噸<車輛總重<38噸	CNP 068	1	15%	105			97	
	8 Frame cut the rebars during breaking works 在打破工程中,切割鋼筋	Generator, silenced, 75dB(A) at 7m 發電機,低噪音型在7米距離時75分貝(A)	CNP 102	1	50%	100			97	101
		Lifting platform 升降平臺 Lorry, with crane, 5.5 tonne < gross vehicle	BS C4 57 CNP 145	1 1	50% 15%	95 105			92 97	
		weight < 38 tonne 吊機,貨車,5.5噸<車輛總重<38噸								
	9 Remove the concrete debris 移除混凝土碎片	Excavator/loader, wheeled/tracked 控土機/搬土機,輪動式/履帶式	CNP 081	1	50%	112			109	110
	19 PAY(CLORE_LL BT)	Dump truck, 5.5 tonne < gross vehicle weight < 38 tonne 卸土車,5.5噸<車輛總重<38噸	CNP 068	2	50%	105			105	
1	0 Remove all FSD facilities/ pipes/ pumps of the FSD concrete room and all ground services	Lorry, with crane, 5.5 tonne < gross vehicle weight < 38 tonne 吊機,貨車,5.5噸<車輛總重<38噸	CNP 145	1	15%	105			97	101
	移除所有消防混凝土房裏的消防設施/ 管道/泵和所有地面設備	Lifting platform 升降平臺	BS C4 57	1	25%	95			89	
		Generator, silenced, 75dB(A) at 7m 發電機,低噪音型在7米距離時75分貝(A) Drill/grinder, hand-held (electric) 鑽/磨機,手提型(電動)	CNP 102 CNP 065	1	50% 15%	100 98			97 90	
1	1 Remove water tanks 移除水箱	Lorry, with crane, 5.5 tonne < gross vehicle weight < 38 tonne 吊機,貨車,5.5噸<車輛總重<38噸	CNP 145	1	50%	105			102	102
1	2 Break and remove FSD concrete	Breaker, excavator mounted (hydraulic)	CNP 028	1	15%	122			114	114
	room 打破和移除消防混凝土房間	破碎機,裝在挖土機上(油壓) Concrete crusher, excavator mounted	CNP 055	1	25%	103				
		混凝土破碎機,裝在挖土機上 Dump truck, 5.5 tonne < gross vehicle weight < 38 tonne 卸土車,5.5噸<車輛總重<38噸	CNP 068	2	15%	105			100	

## Annex B2 : Construction Plant Inventory

## 附錄 B2: 施工時使用的機動設備

No. 號數	Activities 工序	PME 機動設備	TM Ref. 技術備忘錄的 辨認代碼/ BS 5228	No. of PME 數量	time %	Unit SWL 聲功率級 (分貝(A))	Type of Noise Control 控制噪音類別	Noise reduction 聲功率修正, dB(A)	SWL 修正後的 聲功率級, dB(A)	Total SWL 聲功率級總 數, dB(A) <sup>[1]</sup>
1	3 Remove any temporary steel works 移除任何臨時鋼鐵支架	Breaker, excavator mounted (hydraulic) 破碎機,裝在挖土機上(油壓)	CNP 028	1	15%	122			114	114
		Lorry, with crane, 5.5 tonne < gross vehicle weight < 38 tonne 吊機・貨車・5.5噸<車輛總重<38噸	CNP 145	1	50%	105			102	
		Lifting platform 升降平臺	BS C4 57	1	15%	95			87	
		Generator, silenced, 75dB(A) at 7m 發電機,低噪音型在7米距離時75分貝(A)	CNP 102	1	25%	100			94	
		Drill/grinder, hand-held (electric) 鑽/磨機,手提型(電動)	CNP 065	1	15%	98			90	

Notes:

[1] The figures are rounded-up to a whole number.
 數字四拾五人為一個整數。

[2] Activity 1 and 2 will be operating inside tunnel. Other activities will be carried out outside the tunnel area, ie in open-air. The adit entrance will remain open during the various decommissioning activities.
 活動1和2將在隧道內進行。其他活動將在隧道外的區域、即在露天進行。隧道口在工程期間將維持開放。

## Annex B3 附錄 B3

#### Construction Noise Assessment

#### 建築噪音評估

NSR: KET15 Chee Sing Kok Social Centre of the Humanity Love 慈星閣仁愛服務中心

		Worksite	SWL	Distance	Corr. for	Corr. for	1					
		ID			distance	façade	Predicted Construction Noise Level (dB(A))					
		工地號						預計的	内噪音聲級 (分貝(A)修正)			
No. 號數	Activities		聲功率級	距離	距離衰減	聲音反射 修正	Month 1	Month 2 Month 3	Month 4 Month 5	Month 6 Month 7		
	工序		dB(A)	m	dB(A) <sup>[1][2]</sup>	dB(A)	wk1 wk2 wk3 wk4	4 wk1 wk2 wk3 wk4 wk1 wk2 wk3 wk4	wk1 wk2 wk3 wk4 wk1 wk2 wk3 wk4	wk1 wk2 wk3 wk4 wk1 wk2 wk3 wk4		
	Daytime Period 日間											
1	Chamber - Dismantle E&M/ FSD/ CCTV/ Lighting/Pump Pies services 儲藏室- 拆除機電/消防/閉路電視/照明/泵管設備	MA	98	59	-43	3	58 58					
2	Tunnel adit - Dismantle E&M/ FSD/ CCTV/ Lighting/Pump Pies services 隧道內- 拆除機電/消防/閉路電視/照明/泵管設備	MA	98	59	-43	3	58 58					
3	Temporary rock filling platform setup to break the upper part of concrete bunch retaining wall 臨時填石搭建平臺以打破混凝土擋土牆的上部份	MA	110	59	-43	3	70 70 70					
4	Break the upper part of wall 打破墻的上部份	MA	114	59	-43	3	73	73				
5	Frame cut the rebars during breaking works 在打破工程中,切割鋼筋	MA	101	59	-43	3	60	60				
6	Remove the temporary rock filling platform 移除臨時填石平臺	MA	110	59	-43	3		70 70				
7	Break the lower part of wall 打破墙的下部份	MA	114	59	-43	3		73   73				
8	Frame cut the rebars during breaking works 在打破工程中,切割鋼筋	MA	101	59	-43	3		60   60				
9	Remove the concrete debris 移除混凝土碎片	MA	110	59	-43	3		70 70				
10	Remove all FSD facilities/ pipes/ pumps of the FSD concrete room and all ground services 移除所有消防混凝土房裏的消防設施/管道/泵和所有地面設備	MA	101	59	-43	3	60 60 60 60	60 60 60 60 60 60				
11	Remove water tanks 移除水箱	MA	102	59	-43	3		62 62	62 62 62 62 62 62 62 62			
12	Break and remove FSD concrete room 打破和移除消防混凝土房間	MA	114	59	-43	3		74	74 74			
13	Remove any temporary steel works 移除任何臨時鋼鐵支架	MA	114	59	-43	3				74 74 74 74		
			•	Predi	cted Noise L	evel, dB(A)	71 71 70 74	74 70 70 74 74 70 71 74	74 74 62 62 62 62 62 62	- 74 74 74 74		

#### Note:

[1] Distance Correction 距離衰減 =  $10*log(2*PI*r^2)$ 

[2] The figures are rounded-up to a whole number.

數字四捨五入為一個整數。