



**The Government of the Hong Kong Special Administrative Region  
Civil Engineering and Development Department**

# **Yung Shue Wan Development, Engineering Works, Phase 2**

## **Project Profile**

February 2011

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## **1. Basic Information**

### **1.1 Project Title**

Yung Shue Wan Development, Engineering Works, Phase 2

### **1.2 Purpose and Nature of the Project**

The works for the Yung Shue Wan Development comprises two phases. The Phase 1 works which commenced in April 1997 were completed in April 2002. In August 2002, the Planning Department (PlanD) conducted a land use review for the proposed reclamation and the development plan of the Phase 2 works. Based on the review findings, PlanD recommended a “Reduced Reclamation Option” for the Phase 2 works.

A permanent helipad with associated emergency vehicular access (EVA) was constructed on Lamma Island in August 2008. The purpose of the helipad for safeguarding the life of the local residents, however, cannot be fully served unless its associated EVA section can be connected to the EVA section already completed under the Phase 1 works and the remaining section to be constructed under Phase 2 works.

Besides, the Phase 2 works can also improve pedestrian and village vehicular traffic at the existing Yung Shue Wan Main Street.

The works under the project includes the following:

- (i) seawall construction and reclamation of about 0.4 ha;
- (ii) a seafront promenade and a sandy foreshore feature;
- (iii) an emergency vehicular access (EVA);
- (iv) widening a section of Yung Shue Wan Main Street at the north near to the pier to form the EVA and footpath which will be supported on deck structure;
- (v) stormwater drainage and sewerage including marine outfalls; and
- (vi) associated landscaping works

### **1.3 Name of Project Proponent**

Port Works Division, Civil Engineering Office, Civil Engineering and Development Department

### **1.4 Location and Scale of Project and History of Site**

The site of this project is mainly along an existing coastline at Yung Shue Wan of Lamma Island, adjacent to Yung Shue Wan Main Street. Drawing no. PW-MS11-001 shows the location and general layout of the project.

### **1.5 Number and Types of Designated Projects to be Covered by the Project Profile**

The project will involve dredging operation which is less than 500m from the nearest boundary of an existing coastal protection area. The project therefore constitutes a designated project by virtue of Item C.12, Part I, Schedule 2 of the Environmental Impact Assessment Ordinance (EIAO) (Cap. 499).

Subject to detailed design, the project may also constitute a designated project by virtue of Item C.3 and/or Item C.2, Part I, Schedule 2 of the EIAO, depending on whether the reclamation works will occupy an area on plan in excess of 10% of any enclosed or semi-enclosed waterbody and whether the size of reclamation works will be more than 1ha, as the reclamation will be less than 100m from an existing residential area.

### **1.6 Name and Telephone Number of Contact Person**

All enquiries regarding the project can be addressed to:

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## **2. Outline of Planning and Implementation Programme**

The project proponent is responsible for the overall planning, design and construction supervision of the works under the project. It is intended to engage consultants to undertake the Environmental Impact Assessment (EIA) Study, Drainage Impact Assessment (DIA) Study and the landscape design.

The tentative implementation programme is as follows:

EIA and DIA Studies	late 2011 to late 2012
Detailed Design and Tendering	mid 2012 to mid 2014
Construction	mid 2014 to mid 2016

It is anticipated that this project would have no major interaction with other projects.

## **3. Possible Impacts on the Environment**

### **3.1 Water Quality**

Sediment loss may occur during the dredging operations. Dredging may also release contaminants bound to the sediments into the waterbody and increase the suspended solids in the water. In addition, surface runoff stemming from the site during and after the reclamation may also affect the water quality.

### **3.2 Noise**

During construction, the various construction activities such as dredging, earth filling, material lifting, etc. will generate intermittent and transient noise

nuisance to the nearby noise sensitive receivers.

### **3.3 Air Quality**

During construction, the emission of dust from earth filling activities and gaseous emissions from constructional plants may have impact on the air quality, especially in dry seasons.

### **3.4 Waste Management**

Marine sediments will be dredged during construction and contaminated dredged material may need to be disposed off site. Construction and demolition materials will also be generated from demolition of existing structures.

### **3.5 Landscape and Visual Impact**

The reclamation will cause impact on the visual and landscape character of Yung Shue Wan, especially along the shoreline.

### **3.6 Ecology**

Dredging and reclamation works will lead to loss of habitat, especially marine habitat. Release of sediments during dredging may also cause impact to marine ecology.

### **3.7 Cultural Heritage**

The Yung Shue Wan Site of Archaeological Interest and a Grade 3 Tin Hau Temple at Sha Po Old Village are located adjacent to the proposed reclamation area and the works may have the potential to cause impacts to these. Detailed assessment will be carried out during the EIA Study.

#### **4. Major Elements of the Surrounding Environment**

Sensitive receivers and sensitive parts of the natural environment, which may be affected by the proposed project, include the following located at Yung Shue Wan:

- (i) existing village type residential/commercial developments to the north, east and southeast of the site;
- (ii) an existing public library to the north of the site;
- (iii) an existing primary school and an existing kindergarten to the east of the site;
- (iv) an existing clinic to the southeast of the site;
- (v) Tin Hau Temple (grade 3 historic building) to the southeast of the site;
- (vi) an existing Chinese temple to the southeast of the site;
- (vii) a small stream flowing through the northern part of the site;
- (viii) a coastal protection area to the north of the site;
- (ix) Yung Shue Wan Site of Archaeological Interest; and
- (x) visual value of the existing environment

#### **5. Environmental Protection Measures to be Incorporated in the Design and Any Further Environmental Implications**

##### **5.1 Water Quality**

Mitigation measures to minimize the environmental impact on water quality include:

- (i) Installation of silt curtain during dredging to minimize suspended solids level in the waterbody.
- (ii) Extension of sewerage, if any required, to the existing sewerage network.
- (iii) Provision of adequate construction site drainage according to the good practices outlined in ProPECC PN 1/94.

##### **5.2 Noise**

Mitigation measures to minimize the environmental impact on construction noise include:

- (i) Use of quieter powered mechanical equipment and plant, and/or fitted



with muffler/silencers/sound reduction devices.

- (ii) Provision of temporary noise barrier where necessary and practicable.
- (iii) Other noise abatement measures recommended in ProPECC PN 2/93 as appropriate.

### **5.3 Air Quality**

Mitigation measures to minimize the environmental impact on air quality include dust suppression measures such as watering of dusty materials.

### **5.4 Waste Management**

Mitigation measures to minimize the environmental impact of waste generation include:

- (i) Implementation of waste management plan.
- (ii) Reuse of materials as far as practicable.
- (iii) Minimization of dredged materials in design.
- (iv) Handling of dredged sediments in accordance with Environment, Transport and Works Bureau Technical Circular (Works) No. 34/2002.

### **5.5 Landscape and Visual Impact**

Mitigation measures to minimize the environmental impact on visual appearance and landscape include landscape design to minimize obstruction of existing views and replicate existing landscape features such as sandy foreshore.

### **5.6 Ecology**

Mitigation measures to minimize the environmental impact on natural heritage and ecology include habitat enhancement in design of reclamation.

### **5.7 Cultural Heritage**

Mitigation requirements to minimize any potential cultural heritage impacts associated with the works will also be developed at the detailed design stage and fully implemented in appropriate stages, based on the findings of the detailed assessment carried out in the EIA Study.

## 6. Use of Previously Approved EIA Reports

Reference has been made to the following previously approved EIA report:

- (i) EIA Report for “Helipad at Yung Shue Wan, Lamma Island”, Application No. EIA-114/2005, Register No. AEIAR-094/2006.

## 7. References

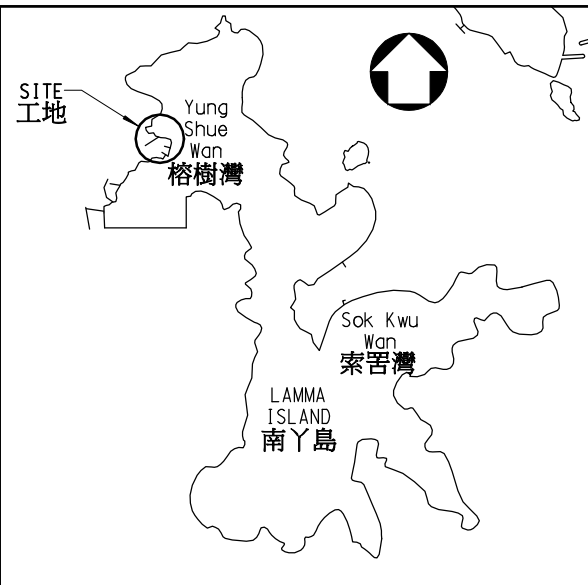
Mouchel Asia Ltd. (August 2002) – Draft EIA Report for Yung Shue Wan Development, Engineering Works, Phase 2. Civil Engineering Department, HKSAR.

Project Profile for Yung Shue Wan Development, Engineering Works, Phase 2 (Mar 2000). Civil Engineering Department, HKSAR.



**Attachment :** Drawing No. PW-MS11-001

Port Works Division  
Civil Engineering and Development Department



位置圖 KEY PLAN  
比例 SCALE 1 : 100 000

**圖例**  
**LEGEND:**

	填海區 RECLAMATION AREA
	擬建前濱鋪沙 PROPOSED SANDY FORESHORE FEATURE
	擬建堆石海堤 PROPOSED RUBBLE MOUND SEAWALL
	擬建散步長廊 PROPOSED PROMENADE
	擬建平台結構 PROPOSED DECK STRUCTURE
	擬建4.5米闊的緊急車輛通道 PROPOSED 4.5m WIDE EMERGENCY VEHICULAR ACCESS (EVA)
	擬建緊急車輛通道/行人路 PROPOSED EVA / FOOTPATH
	擬建樹柵 PROPOSED TREE GRILLE
	擬建排水渠口 PROPOSED DRAINAGE OUTFALL
	工地範圍 SITE BOUNDARY



- 注釋**  
**NOTES**
- 所有尺寸均以米標示。  
ALL DIMENSIONS ARE IN METRES.
  - 所有坐標均根據香港1980大地基準以米標示。  
ALL CO-ORDINATES REFER TO HONG KONG GEODETIC DATUM 1980 AND ARE IN METRES.
  - 所有高程均根據海圖基準面(C.D.)，以米標示。  
ALL LEVELS REFER TO CHART DATUM (C.D.) AND ARE IN METRES.

編號 no.	日期 date	說明 description	核對 checked	核准 approved
<b>修訂 REVISION</b>				
		姓名 name	簡簽 initial	日期 date
設計 designed		Y T CHAN	SIGNED	23.02.11
繪畫 drawn		S P LEUNG	SIGNED	23.02.11
摹描 traced		S P LEUNG	SIGNED	23.02.11
核對 checked		K C LEUNG	SIGNED	23.02.11
核准 approved		SIGNED (LAM Sing-kwok)		
		日期 date	總工程師 Chief Engineer	
		23.02.11		

合約編號 contract no.

檔案編號 file no.

工程編號 project no.

合約 contract  
工務計劃項目第5433CL號 - 榕樹灣第二期發展工程  
PWP ITEM 5433CL-YUNG SHUE WAN DEVELOPMENT, ENGINEERING WORKS, PHASE 2

名稱 drawing title  
**總平面圖**  
GENERAL LAYOUT PLAN

圖則編號 drawing no. 比例 scale  
**PW-MS11-001** 1 : 1000

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CIVIL ENGINEERING OFFICE

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