

**For discussion
on 9 November 2010**

LC Paper No. CB(2)187/10-11(05)

LegCo Panel on Food Safety and Environmental Hygiene

Conversion of Aqua Privies into Flushing Toilets - Phase 7 (the Final Phase)

Purpose

This paper briefs Members on the proposal to include 145 aqua privies (APs) in Phase 7 (the final phase) of the conversion programme.

Background

2. The Food and Environmental Hygiene Department (FEHD) has since 2005 started to implement a programme to convert some 520 APs in the New Territories and outlying islands into flushing toilets by phases. The initiative has been included in the Policy Agenda since 2007-08, with the target of completing the conversion of all APs by 2012-13. So far, six phases of the conversion programme, involving 317 APs, have been funded.

3. Replacing APs with flushing toilets helps improve the outlook and environmental hygiene of the area, as well as making it more convenient for the local residents and tourists. The implementation of the conversion programme has been widely welcomed and commended by the local community. The changes in the exterior and interior views of an AP before and after conversion are shown at
_____ **Annex A.**

4. In the Panel paper on Phase 6 of the conversion programme in May 2009 (CB(2)1489/08-09(5)), we proposed to cover the remaining APs in Phase 7 (the final phase) of the conversion programme.

Phase 7 (the final phase) of the conversion programme

5. Upon completion of Phase 6, there remain 198 APs to be converted. Having made an initial assessment, including ascertaining land status and land allocation as well as conducting technical feasibility studies, and consulted the relevant District Councils, FEHD and concerned departments have drawn up a list of the remaining 145 APs for inclusion in Phase 7 of the conversion programme (the list is at **Annex B**). We aim to complete the entire conversion programme in the fourth quarter of 2013. The reasons for excluding 53 APs from the programme and the subsequent arrangements are set out in detail in paragraph 10.

Scope of works

6. Similar to previous phases, the scope of conversion works under Phase 7 will cover basic refurbishment including installing toilets with a flushing system, alterations to cubicles and the provision of pedestal or squatting type water closets; replacement of internal / external walls and floor finishes; improvement of hand-washing facilities; and improvement of lighting and ventilation.

7. In addition to the above refurbishment, subject to technical and site constraints, the converted toilets will be connected to nearby public sewers. For those which cannot be connected to public sewers (for example, because of a lack of a public sewer system in the vicinity), we will explore other means, which include introducing bio-treatment system with toilet waste treated under a biological process or converting the existing underground septic tanks into holding tanks for temporary storage of waste supported by frequent desludging. The conversion method recommended for each aqua privy will be reviewed and adjusted according to on-the-ground situation.

Public consultation

8. We completed consultation with the relevant District Councils by October 2010 and the District Councils supported the proposed phase 7 of the aqua privies conversion programme.

Project implementation

9. The capital cost for the conversion programme under Phase 7 is

estimated at around \$380 million (in Money-of-the-Day prices). We plan to seek funding approval of the Public Works Sub-committee and the Finance Committee in December 2010 and January 2011 respectively. If the funding proposal is approved, the conversion works will commence in the first quarter of 2011 for completion by the fourth quarter of 2013.

APs not included in the programme

10. According to the assessment at the present stage, 53 APs have not been included in Phase 7 of the programme as the conversion works of these APs may not be conducted / completed within the conversion timetable of Phase 7. Among these 53 APs, three have obtained consent for demolition from the local community. The remaining 50 are not included in the programme due to problems involving private land, site constraints, possible reprovisioning or demolition as a result of other works projects, and for a few, failure to obtain local support for the conversion. The breakdown of reasons for excluding the 53 APs is set out at **Annex C**.

11. As before, in the event that a small number of APs included in the conversion programme are found to be unsuitable for conversion due to technical or site constraints (for example, a lack of water and electricity supply, slope problems) during the process, FEHD will conduct *in-situ* refurbishment which includes upgrading the external finishes, installing mosquito traps and provision of air fresheners, odour-arresting agents and hand sanitizers inside the APs.

12. Besides, in the processing of cases under the conversion programme, individual APs may involve issues associated with problems involving private land or right of way on private land. In these circumstances, we will ascertain the land status and identify the land owners with a view to seeking their agreement for the conversion to proceed or for the AP to be retained for *in-situ* refurbishment. If the land owners cannot be reached or if consent cannot be obtained, we will consult the local community and the relevant departments to ascertain if the AP could be reprovisioned nearby. We expect that more time would be required for these cases before the issues can be resolved with the relevant departments and the land owners. We will follow up these cases.

Advice sought

13. Members are invited to note the above information and comment on our proposal to seek funding approval of the Public Works Sub-committee and the Finance Committee for Phase 7 of the conversion programme in December 2010 and January 2011 respectively.

**Food and Health Bureau
Food and Environmental Hygiene Department
November 2010**

Conversion of Aqua Privies into Flushing Toilets
把旱廁改建為沖水式廁所

EXTERIOR VIEW OF TOILET
廁所外觀

Before conversion
改建前



After conversion
改建後



INTERIOR VIEW OF TOILET

廁所內貌

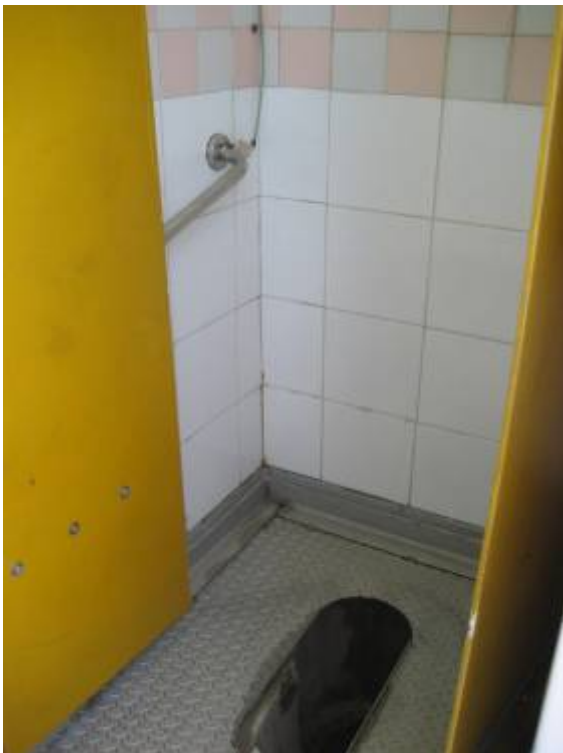
Before conversion
改建前



After conversion
改建後



Before conversion
改建前



After conversion
改建後



13NT – Conversion of aqua privies into flushing toilets – phase 7

Locations of 145 aqua privies on the Conversion List

13NT – 把旱廁改爲沖水式廁所 – 第 7 期

列於改建名單的 145 個旱廁所在地點

Type 1 works: Conversion of septic tank into holding tank (13 APs)

第一類改建工程：將化糞池改爲貯糞池（13 個旱廁）

Type 2 works: Installation of bio-treatment system (125 APs)

第二類改建工程：加建生物處理污物系統（125 個旱廁）

Type 3 works: Connection to public sewers (7 APs)

第三類改建工程：接駁至公共污水渠（7 個旱廁）

Islands 離島 (10 APs)	Type 2 works 第二類改建工程
	Pak Kok Village, Lamma 南丫島北角村
	Luk Chau, Lamma 南丫島鹿洲
	Shan Ting Village, Peng Chau 坪洲山頂村
	Nam Wan Sun Tsuen, Peng Chau 坪洲南灣新村
	Ngau Kwu Long, Lantau 大嶼山牛牯壆
	Hau Wong Temple, Tung Chung 東涌侯王廟
	Lower Keung Shan, Lantau 大嶼山下羌山
	Fan Lau, Lantau 大嶼山分流
	Ko Long Village, Lamma 南丫島高壆村
	Lutheran Village II, Cheung Chau 長洲信義第二村

Kwai Tsing 葵青 (2 APs)	Type 2 works 第二類改建工程
	Shing Mun Road, Kwai Chung 葵涌城門道
	Kau Wah Keng Village 九華徑村
North 北區(36 APs)	Type 1 works 第一類改建工程
	Hang Tau Village, Sheung Shui 上水坑頭村
	Type 2 works 第二類改建工程
	Cheung Lek Tsuen 長瀝村
	Hang Tau (Ngai Yuen Tsuen) 坑頭(藝園村)
	Kai Ling (Tsung Tsai Yuen) 雞嶺松仔園
	Kwu Tung (Tiu Yuen) 古洞(調園)
	Ma Cho Lung San Tsuen 馬草壟新村
	Ma Cho Lung Yu Hing Tong 馬草壟(餘慶堂)
	Ping Kong Tsuen (2) 丙崗村
	Tong Kung Leng 唐公嶺
	Tsiu Keng Lo Wai 蕉徑老圍
	Tsiu Keng Pang Uk 蕉徑彭屋
	Ying Pun Tsuen 營盤上村
	Ko Po Tsuen 高埔村
	Kwan Tei (North) 軍地(北)
	Leng Pei Tsuen 嶺皮村
	Ma Mei Ha 馬尾下
	Po Kat Chai, Lau Shui Heung 布格仔流水響
	San Uk Tsai 新屋仔
	Wang Shan Keuk San Tsuen 橫山腳新村
	Ap Chau (2) 鴨洲(2)
	Fung Hang 鳳坑
	Ha Wo Hang 下禾坑
	Kat O Fisherman's Village 吉澳漁民村

	Loi Tung 萊洞
	Luk keng (Wong Uk) 鹿頸(黃屋)
	Nam Chung (Lo Uk) 南涌(羅屋)
	Sam Ah 三楹
	Sheung Ma Tseuk Leng 上麻雀嶺
	Ngar Yiu 瓦窰村
	Yuen Ha Tsuen 元下村
	Shui Tong Hang, Kwu Tung 水塘坑
	Shek Wu San Tsuen 石湖新村
	Sha Ling, Cheung Po Tau Tsuen 沙嶺長甫頭村
	Man Kam To 文錦渡
	Hok Tau Tsuen, Fanling 粉嶺鶴藪村
	Type 3 works 第三類改建工程
	Leng Tsai Tsuen 嶺仔村
	Type 1 works 第一類改建工程
	Pik Shui Sun Tsuen (2) 碧水新村(2)
	Type 2 works 第二類改建工程
	Pak Shek Wo Sun Tsuen 白石窩新村
	Ta Ku Ling Sun Tsuen 打鼓嶺新村
	Sheung Yeung 上洋
	Lung Ha Wan 龍蝦灣
	Ta Mui 大廟
	Nam Pin Wai 南邊圍
	Luk Mei Tsuen 鹿尾村
	Pak Sha Wan Fisherman Village 白沙灣漁民新村
	Ma Nam Wat 麻籃笏
Sai Kung 西貢 (22 APs)	Hung Fa Village (2) 紅花村(2)
	Muk Min Shan Road 木棉山路
	Tai Wan Tsuen 大環村

	Kei Ling Ha Sun Wai 企嶺下新圍
	Che Ha Village 峯下村
	Tseng Tau Pier 井頭碼頭
	Yim Tin Tsai 鹽田仔
	Hap Mun Bay 廈門灣
	Shui Bin Tsuen 水邊村
	Pik Shui Sun Tsuen (3) 碧水新村(3)
	Type 3 works 第三類改建工程
	Man Sau Sun Tsuen 萬壽新村
	Tun Cheung Upper Village 薹場上村
Sha Tin 沙田(2 APs)	Type 2 works 第二類改建工程
	Mui Tsz Lam Village 梅子林村
	Ma On Shan Village Hilltop 馬鞍山村山頂
Tai Po 大埔(7 APs)	Type 1 works 第一類改建工程
	Tai Po Kau Lo Wai II 大埔滘老圍(二)
	Type 2 works 第二類改建工程
	Tai Wo Village 大窩村
	Kau Lung Hang Village 九龍坑村
	Kau Lau Wan Site I 高流灣(一)
	Kau Lau Wan Site II 高流灣(二)
	Tang Ka Wan 旦家灣
	Type 3 works 第三類改建工程
	Shuen Wan Li Uk 船灣李屋

Tsuen Wan 荃灣 (9 APs)	Type 2 works 第二類改建工程
	Fu Yung Shan Yiu Tai 芙蓉山姚大
	Sham Tseng East Tsuen 深井東村
	Sham Tseng Commercial Village 深井商業新村
	Yam O 陰澳
	Lung Yue Road 龍如路
	Kwong Pan Tin Village (Section II) 光板田村二段
	Sheung Kwai Chung Tsuen 上葵涌村
	Type 3 works 第三類改建工程
	Tsing Fai Tong Village 清快塘村
Shu On Terrace Village 舒安台村	
Tuen Mun 屯門 (9 APs)	Type 1 works 第一類改建工程
	Chan Uk Tsuen, So Kwun Wat 掃管笏陳屋村
	Tai Lam Chung Tsuen 大欖涌村
	San Shek Wan Resite Area, Phase 1 散石灣遷置區第 1 期
	Type 2 works 第二類改建工程
	Wo Ping San Tsuen 和平新村
	Sun Fung Wai 順風圍
	Chung Wong Toi 頌皇台
	Luen On San Tsuen 聯安新村
	Wu Uk Tsuen, Tai Lam 大欖胡屋村
Po Tong Ha Tsuen 寶塘下村	

Yuen Long 元朗 (48 APs)	Type 1 works 第一類改建工程
	Shui Tsiu San Tsuen (2) 水蕉新村(2)
	Tai Kei Leng 大旗嶺
	Sheung Che Tsuen 上輦村
	Wai Tsai Tsuen 圍仔村
	Ki Lun Shan 麒麟山
	Tai Sang Wai (1) 大生圍(1)
	Fuk Hing Tsuen, Ping Shan 屏山福慶村
	Type 2 works 第二類改建工程
	Pak Sha 白沙
	Pak Sha Tsuen (2) 白沙村(2)
	Wong Nai Tun (inside) 黃泥墩(內)
	Wong Nai Tun Tsuen (Nullah) 黃泥墩村
	Sham Chung Tsuen 深涌村
	Lai Sau Tsuen, (Fraser Village) 禮修村
	Tong Tau Po Tsuen 塘頭埔村
	Nga Yiu Tau Tsuen 瓦窰頭村
	Chung Hau Tsuen (1) 涌口村(1)
	Sai Pin Wai (1) 西邊圍(1)
	Shan Pui Tsuen 山貝村
	Tin Shing Wai near Small Traders New Village 天盛圍近小商新村
	Pang Ka Tsuen 彭家村
	Ta Shek Wu 打石湖
	Ku Miu, Cheung Uk Tsuen 張屋村古廟
	To Uk Tsuen 杜屋村
	Lai Uk Tsuen beside Lai Ka Tze 黎屋村黎家祠旁
	Shui Lau Tin Tsuen 水流田村

Yuen Kong San Tsuen 元崗新村
Cheung Po Tsuen (1) 長莆村(1)
Ng Ka Tsuen 吳家村
Kiu Tau Wai 橋頭圍
Sha Kong Wai 沙江圍
Fu Tso Tsuen, Deep Bay Road 深灣路虎草村
Mong Tseng Wai 輞井圍
Mong Tseng Tsuen (1) 輞井村(1)
Sha Kiu, Sheung Wan 沙橋, 上灣
Tung Tau Tsuen 東頭村
Kau Lee Uk Tsuen 舊李屋村
Po Quar Ling 蒲瓜嶺
Chung Pak Nai (Ngau Hom Shek) (1) 中白泥(鰲磡石)(1)
Ha San Wai 下新圍
Pang Loon Tei (Siu Hom) 彭龍地(小磡)
Chau Tau Tsuen 洲頭村
Shek Po Tsuen near car park, Hung Shui Kiu 石埗村近停車場
Shui Tau Tsuen 水頭村
San Sang Tsuen 新生村
Ha Tsuen Shi, VMO 廈村市菜站
Mai Po Lung Tsuen, San Tin 新田米埔隴村
Ha Wan Tsuen, San Tin 新田下灣村
Type 3 works 第三類改建工程
Sai Pin Wai (2) 西邊圍(2)

Reasons for excluding 53 APs from the conversion programme

53 個旱廁不納入改建計劃的原因

Reasons 原因	No. of APs 旱廁數目
Involving private land issues / affected by other private developments or other projects 涉及私人土地問題 / 受其他私人發展計劃或 其他工程影響	36
The local community opposes the conversion or requests the relocation / reprovisioning / demolition of the APs 當區人士反對改建或要求搬遷 / 重置 / 拆卸有關旱廁	10
Project / site constraints 工程/實地環境限制	4
FEHD proposes and the local community supports the demolition of the APs 食環署建議及地區支持拆卸有關旱廁	3 ^{Note 註}
Total 共	53

Note: Reasons for demolishing the APs are as follows:

註：建議拆卸有關旱廁原因如下：

- AP at Tung Lo Wan Hill Top Village (ST-21) - With another public toilet nearby, the local community supports the proposal on demolition of the AP. Demolition works have commenced since October 2010.
銅鑼灣山頂村旱廁(ST-21) - 因附近另有公廁，當區人士亦支持拆卸建議。已於 2010 年 10 月展開拆卸工程。
- AP at Lin Ma Hang (2) (N-94) - With another public toilet nearby, the local community supports the proposal on demolition of the AP.

Demolition was completed in October 2010.

蓮麻坑(2)旱廁(N-94) - 因附近另有公廁，當區人士亦支持拆卸建議。已於 2010 年 10 月完成拆卸。

- AP at Heung Yuen (N-116) - In view of the low utilisation rate, the local community supports the proposal on demolition of the AP. Demolition works will commence shortly.
香園旱廁(N-116) - 因使用率低，當區人士亦支持拆卸建議。拆卸工程於短期內進行。