

**CONTROLLING OFFICER'S REPLY**

**DEVB(W)076**

**(Question Serial No. 2640)**

Head: (39) Drainage Services Department

Subhead (No. & title): Not Specified

Programme: (1) Stormwater Drainage

Controlling Officer: Director of Drainage Services (TONG Ka Hung, Edwin)

Director of Bureau: Secretary for Development

Question:

Regarding the programme of stormwater drainage, please advise this Committee of:

- 1) any plans to convert some suitable regional drainage facilities in a way to support rainwater collection for other uses during the planning and upgrading of stormwater drainage systems for each district. If yes, what are the details?
- 2) any studies, including those by reference to overseas experience, conducted over the past five years to examine whether local stormwater drainage systems can support the collection of suitable water resources. If yes, what are the details? If not, what are the reasons?

Asked by: Hon WU Chi-wai (Member Question No. 34)

Reply:

The Drainage Services Department (DSD) has been exploring options of rainwater re-use in drainage projects and assessing potential drainage systems that could support the collection of suitable water resources for sustainable re-use. As a trial, DSD has included facilities to re-use collected rainwater for non-potable uses in the following two drainage projects: -

- i) A rainwater harvest system with a capacity of 120 m<sup>3</sup>/day has been built in the Lai Chi Kok Drainage Tunnel project. The rainwater collected will be stored in the stilling basin and then used for irrigation, cleansing and toilet flushing within the compound after appropriate treatment. The water could also be made available for street cleansing.
- ii) Another system with a capacity of 600 m<sup>3</sup>/day is being constructed under the Happy Valley Underground Stormwater Storage Scheme at Happy Valley Recreation Ground. A storage tank will be built to collect underground water as well as irrigation water

and rainwater from the sport pitches above and then re-use the water for toilet flushing and irrigation of the pitches after treatment.

Currently DSD is exploring under the Inter-Reservoirs Transfer Scheme to channel the water collected from the Lai Chi Kok hillside upstream area into Lower Shing Mun Reservoir.

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