

CONTROLLING OFFICER'S REPLY

DEVB(W)232

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Head: (39) Drainage Services Department
Subhead (No. & title): (-) Not Specified
Programme: (1) Stormwater Drainage
Controlling Officer: Director of Drainage Services (CHUNG Kum Wah, Daniel)
Director of Bureau: Secretary for Development

Question (Member Question No. 331):

1. How many cases of flooding occurred on Hong Kong Island last year? Please list in chronological order these cases by the amount of rainfall on that day and cause(s) of flooding.
2. What is the progress of improvements works for each of these flooding blackspots on Hong Kong Island? Please advise on the details of the works, progress and estimated expenditure involved.
3. Hong Kong West Drainage Tunnel has commenced operation for more than a year. Has the Administration reviewed the effectiveness of this project? What are the details?

Asked by: Hon. CHAN Ka-lok, Kenneth

Reply:

1. In 2013, there were totally 15 flooding cases on Hong Kong Island and all of them were recorded on 22 May 2013 when the Black Rainstorm Warning was issued. Hourly rainfall intensity exceeding 70 millimetres was generally recorded on Hong Kong Island on that day.

All these flooding cases were minor and happened at localized areas in Western District, Pok Fu Lam, Central District, Causeway Bay, North Point and Shau Kei Wan. They were due to blockage of roadside gullies and surface channels resulting in ineffective discharge to cope with the large quantity of rainwater.

2. The details of the flooding blackspots on Hong Kong Island, the progress and estimated costs of the drainage improvement works to them are as follows-

Flooding Blackspot	Details of Drainage Improvement Works
(i) Pok Fu Lam Village	<p>PWP Item No. 4158CD involving upgrading works to the drainage system in the village commenced in March 2009 and were completed in June 2009. The cost for this part of works was \$5.9 million.</p> <p>Further drainage improvement works are under planning.</p>
(ii) Wong Chuk Hang Road, junction of Nam Long Shan Road	<p>PWP Item No. 4158CD involving the construction of stormwater drains along Wong Chuk Hang Road, Yip Kan Street and Tong Bin Lane commenced in March 2009 and was completed in October 2010. The cost for this part of works was \$7.5 million.</p> <p>Further drainage improvement works at the junction commenced in January 2013 for completion by late 2014. The estimated cost for this part of works is about \$6.0 million.</p>
(iii) Morrison Hill Road, junction of Lap Tak Lane	<p>PWP Item No. 4103CD (Hong Kong West Drainage Tunnel (HKWDT) works commenced in November 2007 and were completed in June 2012. The cost for this project was about \$3,381.3 million.</p> <p>PWP Item No. 4104CD involving the construction of stormwater drains along Sung Tak Street and Morrison Hill Road commenced in May 2010 and was completed in November 2013. The cost for this part of works was \$6.5 million.</p> <p>PWP Item No. 4160CD for the construction of an underground stormwater storage tank in Happy Valley commenced in September 2011 for completion by 2018 in phases. The estimated cost for this project is about \$1,065.8 million.</p> <p>Drainage Services Department's Block Vote involving the construction of stormwater drains along Lap Tak Lane and Yat Sin Street commenced in January 2014 for completion by 2016. The estimated cost is about \$8.5 million.</p>

3. HKWDT is designed to intercept the excess runoff from upland during severe rainstorms and protect the downstream catchments of Wan Chai, Central District and Western District. Since its commissioning in 2012, there has been no major flooding incident in

these districts. A post-commission flow monitoring for HKWDT conducted by the Drainage Services Department in 2013 recorded that it intercepted 548 000 cubic metres of runoff during the severe rainstorm on 22 May 2013 and no major flooding incident was reported at the downstream areas, which demonstrates that HKWDT functions effectively as per design.