

Tracking Sheet for Floodplain Delineation Revisions

Revision No	004/2011
Date of Revision	11 October 2011
Watercourse	Blueberry Creek
Location	Northeast part of Blueberry Creek, Reach 2
No of Revised Map Sheets	N/A
Nature of Change	Additional DTM and Updated HEC-RAS model
Original Report	RVCA (2010). Blueberry Creek Flood Risk Mapping. 2 July 2010.
Note	This Revision represents Addendum No. 1 to the Blueberry Creek Flood Risk Mapping, and should be read in conjunction with, the Original Report noted above.
Revision Approved by	Ferdous Ahmed, Ph.D., P.Eng.

Description of changes made under this Revision:

- Additional topographical information to the east was obtained from Base Mapping Company (correspondence dated August 3, 2011). This DTM was seamlessly connected to the original topography used in the original report.
- The HEC-RAS model was revised by adding two cross-sections (2264 and 2122 on Blueberry Creek, Reach 2) in order to better capture the variation of water level in the vicinity of the northeast spill zone.
- The floodline was amended between cross-sections 2340 and 1940 on Blueberry Creek, Reach 2 (Figure 3).
- A spill section near the northeast of Blueberry Creek (Reach 2) was identified. During the 1:100 year flood event, the water is expected to spill to the southeast direction and spread across the low-lying areas (Figure 3). The depth of flow at the spill section is estimated at 6 cm.
- The ground elevations within the low-lying areas are only marginally above the RFL; therefore it is important that any development should be designed with due consideration to applicable flood levels. Also any grading changes should be carefully assessed in order to ensure that no additional overland flow routes (or spill zones) are created between the Blueberry Creek Floodplain and the lands to the southeast.
- Based on the additional information and analysis, we conclude that development in the area that may be subjected to shallow flooding can proceed without adversely impacting the 'control of flooding', provided the buildings are flood proofed to the applicable flood level and drainage infrastructure is designed accordingly.
- The revised flood elevations and cross-sections (Table 5, Figures 3 and 4, Revision 004/2011), longitudinal profiles and cross-sections (Appendix A and B, Revision 004/2011) from the hydraulic model are now posted on the RVCA website and should be read in conjunction with this map revision.