

**Tracking Sheet for Floodplain Delineation Revisions**

<b>Revision No</b>	<b>002/2011</b>
Date of Revision	3 June 2011
Watercourse	Kemptville Creek South Branch
Location	South Branch from Cross-section 14+730 to 24+248
No of Revised Map Sheets	16, 17, 18, 19 and G
Nature of Change	HEC-RAS model, estimated flood elevation, flood limit lines, spot heights
Original Report	RVCA (2009). Kemptville Creek Flood Risk Mapping – Hydraulic Modeling and Map Production. 27 March 2009.
Note	This Revision represents Addendum No. 2 to, 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:

- Labeling of spot elevations on Branch Road was revised based on information obtained from Base Mapping Company (correspondence dated May 25, 2011). There was no change to the contour lines. The corrected base map file is: SPT-HTS\_points\_update2011.shp.
- Inspection of original HEC-RAS modeling of the private crossing between Sections 14+730 and 14+761 revealed that “ineffective flow” portions of the cross-section were incorrectly coded with the effect that all of the river flow was unduly confined to a narrow width of 25 m, forcing unrealistically high energy losses and a corresponding 0.9 metre change in water surface elevation at this structure.
- The HEC-RAS coding was refined based on additional information obtained from local residents on the private road crossing near cross-section 14+761, and a more appropriate representation of ineffective flow areas. The modified version of the HEC-RAS model is in file: Kempt\_R1.prj.
- These modifications resulted in a lowering of the calculated water surface (and/or energy grade line) upstream of the private crossing; the decreased water surface elevation extends (and diminishes in an upstream direction as far as river cross-section 24+248.
- Flood lines have been re-plotted based on the modified water surface elevations in map number 16, 17, 18, 19, and G (all rev. 1).
- The revised flood elevations (Tables 4 and 5, rev. 1), longitudinal profiles and cross-sections (Appendix A, rev. 1) from the hydraulic model are now posted on RVCA website and should be read in conjunction with this map revision.