

## **Supplementary STAFF REPORT**

**To: RVCA Board of Directors**

**Prepared by: Bruce A. Reid, P.Eng., Director,  
Watershed Science and Engineering Services**

**Subject: Van Gaal Drain Flood Plain Mapping – Final Report**

**Date: January 28, 2010**

At its December 18, 2009 meeting, the Board postponed its decision with respect to the acceptance of the JF Sabourin and Associates Final Report on the Van Gaal Drain Flood Plain Mapping (item 6 on the December 18<sup>th</sup> agenda), in order to give "staff and proponent engineers a further chance to review and come to agreement on the methodology".

Staff met with representatives the City of Ottawa, and Mattamy Homes and their engineering consultants on January 14<sup>th</sup>. Minutes of that meeting are attached hereto.

There continues to be difference of opinion between Mattamy's consultants and RVCA's consultant with respect to the selection of the 1:100 year design flow (summer event) on the Van Gaal Drain. RVCA staff continue to be confident that using the JFSA design flows will be defensible before appeal tribunals (Mining and Lands Commissioner, OMB or the Courts) if and when necessary.

At the January 14<sup>th</sup> meeting we did achieve consensus on a step-by-step process to bring the matter to a successful conclusion, summarized as follows

1. RVCA will accept the JFSA flood plain mapping for original conditions of the land, and begin administering and enforcing O.Reg. 174/06 on the flood hazard areas defined in it.
2. Additional channel modifications will be done to increase the channel's conveyance capacity, compensating for the loss of conveyance capacity in overbank areas due to recent berm construction and returning the 1:100 year water surface profile to its pre-berm position. The work will be done by Mattamy, and will be subject to formal approval by the City's Drainage Superintendent as well as RVCA (under O.Reg. 174/06).
3. Grades will be raised in the areas behind (upland) of the existing berms, such that the finished grades will no longer be lower than the water surface profile