

**Project:** Proposed Flamborough Quarry Pump Test  
**Date:** Wednesday July 30, 2008 (Day 10 – Post Pump Test)

### **Hydrology Summary (Surface Water and Precipitation)**

There was approximately 6.1 mm of rainfall observed on-site this morning (i.e. from 9:30 am to 10:30 am on Wednesday July 30<sup>th</sup>, 2008).

The levels in Mountsberg Reservoir are showing further decline and corresponding discharge as of 8:20 am on Wednesday July 30<sup>th</sup>, 2008.

The response due to rainfall events earlier in the week in Mountsberg Creek continues to recede on the falling limb of the hydrograph as verified from the early download this morning at approximately 7:30 am with a level of 283.313 masl. This level corresponds to a flow of approximately 0.646 m<sup>3</sup>/s at Station SW-MC at the northwest corner of the site. However, a level of approximately 283.315 masl corresponding to a flow of approximately 0.651 m<sup>3</sup>/s at Station SW-MC was observed later in the morning as noted at approximately 11:30 am during a flow-up download. This slight increase is a likely result of the rainfall observed mid-morning as noted above.

Water quality results at the creek stations on Day 10 were relatively consistent with baseline conditions observed before the pump test on Thursday July 17<sup>th</sup>, 2008. Turbidity and conductivity levels at Station SW-T3 on Tributary A are likely higher due to the increase in tannins from the vegetation that was under water as a result of the back water effects during the earlier rainfall-runoff response.