

Whiskey Creek – Lackies Bush Pond Assessment

Client: City of Barrie

Year: 2005 - 2006



SERVICES PROVIDED

CCTA analyzed a proposed on-line dry stormwater management facility on Whiskey Creek in the Lackies Bush area in the City of Barrie, for compliance with the MNR Lakes and Rivers Improvement Act and associated regulations. We developed a conceptual stormwater management facility (SWMF) design that successfully dealt with the relevant constraints and criteria. We reviewed and updated the hydrologic model developed in support of the Whiskey Creek Subwatershed Municipal Class Environmental Assessment and created a complex unsteady state HEC RAS hydraulic dam break model, to assess the potential implications downstream of the project. Floodlines for various dam break scenarios including the maximum probable flood were developed along Whiskey Creek from the proposed SWMF to Kempenfelt Bay. Areas of potential flooding and property damage were identified and assessed.

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