

## Day Two - Track One

Thursday, March 23<sup>rd</sup>, 2017

9:00 a.m. – 9:30 a.m.

## Toronto's New Stormwater Management Group and the Earl Bales Stormwater Management Pond

**Presenters:** Kumar Sivakumaran and Daniel McCreery, City of Toronto

### Biographies



Kumar Sivakumaran is an Engineer with the City of Toronto's newly formed stormwater management group in the Engineering & Construction Services Division. A graduate of the University of Peradeniya, Sri Lanka, Kumar has been with the City of Toronto for 27 years. During this time Kumar has managed numerous stormwater and stream restoration projects for the City.



Daniel McCreery is a Water Resources Engineer with the City of Toronto's newly formed stormwater management group in the Engineering & Construction Services Division. Prior to joining the City of Toronto Daniel spent 9 years working in the private sector working on water resources projects throughout North America. A graduate of the University of Guelph, Daniel is keen to team with various stakeholders to implement much needed stream restoration and stormwater management projects for the City of Toronto.

### Abstract

In 2003 the City of Toronto approved the Wet Weather Flow Master Plan to improve the health of Toronto's watersheds. In an effort to increase Toronto's resiliency to Wet Weather Flow events Toronto created a new Stormwater Group in its Engineering and Construction Services Division. This presentation provides an overview of the new Stormwater Group and highlights the implementation of the Earl Bales Stormwater Management Pond as an example project.

Located in North York, the Earl Bales Stormwater Management Pond has the capacity to manage and treat stormwater runoff from a 550 hectare catchment area. Currently in the final phase of construction, the project represents an example of the opportunities and challenges of constructing a

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new stormwater management facility in an established neighbourhood within a developed watershed. Furthermore, the project includes a variety of innovative approaches to meet multi-objective uses, including:

- Revitalizing a former wastewater treatment plant and leaf composting site for reuse;
- Using water from the permanent pool for irrigation and snowmaking to reduce water takings from the West Don River;
- Using specialized drop structures to re-route existing storm sewers;
- Mitigating ravine erosion and tree loss; and
- Blending the project into the natural environment and enhancing an established trail system.

In addition to the Earl Bales Stormwater Management Pond, the presentation will also touch on other City projects to help outline the goals of the Engineering and Construction Services Stormwater Group in implementing Wet Weather Flow Master Plan projects.

## **Learning Objectives**

1. The role of Toronto's newly formed Engineering and Construction Services Stormwater Management Group;
2. The need for evaluating stormwater management on a watershed context; and
3. Creating opportunities for multipurpose stormwater solutions in urban areas.