

Day One - Track One

Wednesday, March 22nd, 2017

1:30 p.m. – 2:00 p.m.

2017 Low Impact Development Stormwater Management Guidance Manual

Presenters: Chris Denich, Aquafor Beech Ltd.

John Antoszek, Ministry of the Environment and Climate Change

Biographies



Chris is the Manager of Water Resources and Green Infrastructure at Aquafor Beech Ltd, where he participates in a variety of municipal, private and public sector projects focusing on SWM using innovative approaches, including Low Impact Development (LID) and Green Infrastructure (GI), for both retrofit and new developments. Chris is recognized as an industry expert in LID, GI and Sustainable Stormwater Management by organization across Ontario and Canada, and has planned, designed, constructed and monitored more than fifty (50) LID projects for Major municipalities and clients across Ontario - from Ottawa to Thunder Bay and across Canada for locations such as British Columbia, Alberta, and Manitoba.



John has worked for the Ontario Ministry of the Environment and Climate Change for 29 years in a variety of positions involving stormwater management, control of combined sewer overflows, and water and wastewater treatment. John currently works with the Water Standards Section of the Standards Development Branch in the position Pollution Control Engineering Advisor. His duties include the provision of engineering/technical expertise and support on water pollution control for municipal point and non-point sources with emphasis on stormwater runoff quality control. John also provides engineering and scientific expertise in the development of pollution control guidelines and policies and provides engineering advice and support to other branches of the Ministry and external clients including consulting engineers, municipalities and Conservation Authorities.

Abstract

Aquafor Beech Limited will provide a presentation as the lead consultant in the development of the pending 2017 Low Impact Development (LID) Stormwater Management Guidance Manual. The presentation will detail the development of:

1. Stormwater volume control requirements for Ontario;
2. Develop criteria to select the appropriate water budget and water quality modelling tools for use in Ontario;
3. Establish criteria and processes for groundwater protection; and
4. Develop a process for which to reflect future Climate scenarios and assess Climate Change risks and vulnerabilities.

The purpose of this manual is to assist Ontario in achieving its commitment as part of the Ontario's Great Lakes Strategy to reduce stormwater and wastewater impacts on the Great Lakes.

The development of this Ministry of the Environment & Climate Change Low Impact Development Stormwater Management Guidance Manual is not intended to replace the 2003 MOE Stormwater Planning and Design Manual, but rather to compliment the 2003 Manual as well as other newer LID Planning and Design Guides developed by Aquafor Beech in collaboration with Ontario Conservation Authorities since 2003.

The pending manual will clearly define the MOECC's position on LID in the province of Ontario for water quality, erosion control and water budget (infiltration) requirements; Clarify LID volume criteria for Water Quality control (including temperature), Erosion Control, Runoff Control and Water Balance (infiltration), Define retrofits, infill developments, redevelopment and new development in the context of LID, Clarify the Environmental Compliance Approval (ECA) process and submission requirements and Outline performance monitoring expectations related to ECA approvals.

Learning Objectives

1. Understanding of the rationale for the principles used to develop the minimum volume control targets for Ontario;
2. Criteria and process used to select the appropriate water budget and water quality modelling tools for use in Ontario; and
3. Strategies to be used to mitigate and adapt to climate change through design, analysis and implementation.