

SEPT  
2019

# Technical Bulletin PS-2019-03

## Stormwater Pre-Treatment

The purpose of this technical bulletin is to provide direction to designers and constructors relating to the importance and implementation of stormwater pre-treatment options. The direction provided below is intended to complement the City of Barrie Storm Drainage and Stormwater Management Policies and Design Guidelines. These changes reflect the evolving requirements of the City's duty to protect human health and our environment through taking action to safeguard our water sources.

Effective immediately, all proposed stormwater systems shall be designed and constructed to achieve the following:

- Manufactured Treatment Devices (MTD) equipped with filtration components shall be installed in advance of stormwater management facilities, centralized LID practices and other discharges directed to the natural environment.
- MTDs shall be verified through ETV verification to meet the below minimum performance criteria;
  - TSS removal efficiency – mean of 84%
  - SSC removal efficiency – mean of 89%
  - Fine Particle Removal - minimum median removal efficiency of 75% for the particle fraction less than 30 microns.
  - Total Phosphorus (TP) Removal – Mean of 40%
- MTDs shall be sufficiently sized to treat 90% of annual runoff volume

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