

A new Version 1.2.1 of the LID TTT has been updated with the following revised default Land Cover Event Mean Concentrations (EMCs), to sync better with local and regional data associated with these various land cover options and associated TSS and TP loadings generated from the tool.

The LID TTT provides the user with default land cover event mean concentrations (EMCs), along with an 'Other' land use option that provides flexibility for either additional land cover options, modifications to the land cover EMC defaults, and/or mixed land-use EMCs.

Land Cover EMCs

Land Cover	TSS (mg/L)	TP (mg/L)
Paved Surface ¹	90	0.23
Roof ²	7	0.09
Landscaped Area ³	100	0.32
Row Crop ⁴	100	0.23
Open Space/Parkland ⁴	27	0.20
Forest ⁴	55	0.23
Wetland ⁴	13	0.81

Data sources:

1. STEP/TRCA and CVC water quality data from various public road and private parking lot sites in the Greater Toronto Area. A conservative value for asphalt would utilize the average of the 75th percentile values. These concentrations for TP and TSS are 0.23 and 90 mg/L, respectively, and are consistent with other northern US studies cited. Recommended for use with parking lots and/or arterial roadways.
2. STEP water quality data from four local roof runoff studies. Utilizing the 75th percentile values, conservative TP and TSS values for roof runoff in the LID TTT would be 0.09 and 7 mg/L respectively.
3. The landscaped area data are from experimental soil plots designed to evaluate feasible alternatives to standard topsoil management practice in new residential developments. As a conservative value, we recommend using the 75th percentile values for TP from a compost amended plot with the addition of 15% for potential synthetic fertilizer applications by property owners or landscape professionals. The TSS EMC default for this land cover has been assigned based on a general correlation only.
4. International Stormwater BMP Database (2018).

STEP anticipates providing additional land cover EMC recommendations and/or defaults by/before the next Version 2.0 release.