



LOW IMPACT DEVELOPMENT STORMWATER MANAGEMENT PRACTICE INSPECTION AND MAINTENANCE GUIDE



Low Impact Development Stormwater Management Practice Inspection and Maintenance Guide

**Version 1.0
2016**

**Prepared by:
Toronto and Region Conservation Authority**

**Under the:
Sustainable Technologies Evaluation Program**

PUBLICATION INFORMATION

Research to prepare this best management practice guidance document was undertaken by the Toronto and Region Conservation Authority's Sustainable Technologies Evaluation Program (STEP). Guidance provided in this document represents the recommendations of STEP regarding Low Impact Development stormwater management practice inspection and maintenance program design and implementation that incorporate input from a project advisory committee composed of representatives of government, industry and academia.

Citation: Toronto and Region Conservation Authority (TRCA). 2016. Low Impact Development Stormwater Management Practice Inspection and Maintenance Guide. Prepared by the Sustainable Technologies Evaluation Program. Vaughan, Ontario.

Documents prepared by the Sustainable Technologies Evaluation Program (STEP) are available at www.sustainabletechnologies.ca. For more information about this or other STEP publications contact:

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THE SUSTAINABLE TECHNOLOGIES EVALUATION PROGRAM

The Sustainable Technologies Evaluation Program (STEP) is a multi-agency program, led by the Toronto and Region Conservation Authority (TRCA). The program helps to provide the data and analytical tools necessary to support broader implementation of sustainable technologies and practices within a Canadian context. The main program objectives are to:

- monitor and evaluate clean water, air and energy technologies;
- assess barriers and opportunities for implementing technologies;
- develop supporting tools, guidelines and policies; and
- promote broader use of effective technologies through research, education and advocacy.

Technologies evaluated under STEP are not limited to physical products or devices; they may also include preventative measures, alternative urban site designs, and other innovative practices that help create more sustainable and liveable communities.

ACKNOWLEDGEMENTS

Funding support for this document was generously provided by:

- Government of Ontario's Showcasing Water Innovation Fund
- Environment Canada's Great Lakes Sustainability Fund
- City of Toronto
- Region of Peel
- Region of York
- City of Mississauga

We would also like to thank the many individuals who contributed to this guide by providing data, technical review and expert advice on behalf of the following organizations:

A&L Canada Laboratories	Lake Simcoe Region Conservation Authority
Aquafor Beech	Ontario Ministry of the Environment and Climate Change
Building Industry and Land Development Association (BILD)	Region of Peel
City of Calgary	Schollen and Company
City of Guelph	SCS Consulting Group
City of Kitchener	SGS Agrifood Laboratories
City of London	Southern Ontario Municipal Stormwater Working Group
City of Markham	SWC Canada
City of Mississauga	Toronto and Region Conservation Authority
City of Toronto	Town of Ajax
Credit Valley Conservation Authority	University of Toronto
Flynn Group of Companies	Vitaroofs
Green Roofs for Healthy Cities	

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LIST OF ABBREVIATIONS

ASAE	American Society of Agricultural Engineers
BMP	best management practice
CDA	contributing drainage area
CEC	cationic exchange capacity
C of A	Certificate of Approval
CIESC	Certified Inspector of Erosion and Sediment Controls
CPESC	Certified Professional in Erosion and Sediment Control
CPT	cone penetration test
CSA	Canadian Standards Association
CSO	combined sewer overflow
DPS	Development Permit System (Ontario)
EC	electrical conductivity
ECA	Environmental Compliance Approval
EFVM	electric field vector mapping
EPDM	ethylene propylene diene terpolymer
ESC	erosion and sediment control
FIT	forensic inspection and testing
GIS	geographic information systems
I:P	impervious to pervious drainage area (ratio)
LID	low impact development
LOI	loss on ignition
NPV	net present value
OMOECC	Ontario Ministry of the Environment and Climate Change
OM	organic matter
P	Phosphorus
PAHs	polycyclic aromatic hydrocarbons
PCPs	polychlorinated biphenyls
PICP	permeable interlocking concrete pavers
PSD	particle-size distribution
PSI	pounds per square inch
SA	surface area
SAR	sodium adsorption ratio
SME	saturated media extract
SP	saturated paste
SWM	stormwater management
TCLP	toxicity characteristic leaching procedure
TPO	thermoplastic polyolefin
VOCs	volatile organic compounds