

United States
Environmental Protection
Agency

Office of Research and
Development
Washington DC 20460

EPA/600/R-04/184
September 2004

The Use of Best Management Practices (BMPs) in Urban Watersheds

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This document has been reviewed in accordance with the Environmental Protection Agency's peer and administrative review process, and it has been approved for publication as an U.S. EPA document. It is a comprehensive literature review on commonly used urban watershed Best Management Practices (BMPs) that heretofore was not consolidated. The purpose of this document is to serve as an information source to individuals and agencies/municipalities/watershed management groups/etc. on the existing state of BMPs in urban stormwater management. Any information within the document should not be considered as official U.S. EPA guidance. In addition, all reported recommendations or values do not reflect the views of the agency and are solely owned by the cited sources.

List of Select Acronyms

ASCE	American Society of Civil Engineers
BMP	best management practice
BOD	biochemical oxygen demand
Caltrans	California Department of Transportation
Cd	cadmium
COD	chemical oxygen demand
Cp_v	channel protection storage volume
CSO	combined sewer overflow
Cu	copper
CZARA	Coastal Zone Act Reauthorization Amendments
CZMA	Coastal Zone Management Act
DO	dissolved oxygen
ED	extended-detention
EMAP	Environmental Monitoring and Assessment Program
EMC	event mean concentration
ENR	Engineering News Record
FC	fecal coliform
FDEP	Florida Department of Environmental Protection
FHWA	Federal Highway Administration
ISMDSF	integrated stormwater decision-support framework
LID	low-impact development
MCTT	multi-chambered treatment train
MEP	maximum extent practicable
MS4	municipal separate storm sewer systems
NGPE	natural growth protection easement
NH₃	ammonia
NJDA	New Jersey Department of Agriculture
NO₂⁻	nitrite
NO₃⁻	nitrate
NPDES	National Pollutant Discharge Elimination System
NRCS	Natural Resources Conservation Service
NURP	Nationwide Urban Runoff Program
NVPDC	Northern Virginia Planning District Commission
NYCDEP	New York City Department of Environmental Protection
NYSDEC	New York State Department of Environmental Conservation
O&M	operation and maintenance
PAHs	polycyclic aromatic hydrocarbons
Pb	lead

PIT	pilot infiltration test
QA/QC	quality assurance/quality control
QAPP	quality assurance project plan
Re_v	recharge volume
R_v	runoff coefficient
SS	suspended solids
SSC	suspended solids concentration
SWPPP	stormwater pollution prevention plan
TKN	total kjeldahl nitrogen
TMDL	total maximum daily load
TP	total phosphorus
TSS	total suspended solids
U.S. EPA	United States Environmental Protection Agency
USDA	United States Department of Agriculture
USGS	United States Geological Survey
WEF	Water Environment Federation
WQ_v	water quality volume
WWF	wet weather flow
Zn	zinc

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