

# Urban Storm Drainage Criteria Manual

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## INTRODUCTION (PREFACE)

- 1.0 EXECUTIVE SUMMARY (new merged with existing content below)
  - PURPOSE OF MANUAL (Currently Sect 2.0)
  - OVERVIEW OF MANUAL (Currently Sect 3.0)
- 2.0 ACKNOWLEDGEMENTS
- 3.0 STORMWATER REGULATIONS PHASE I and II (Currently Sect 1.2 – Stormwater Quality Mgmt Chpt)
- 4.0 LIST OF ABBREVIATIONS (Currently Sect 4.0)

## Chapter 1: STORMWATER QUALITY MANAGEMENT

- 1.0 EFFECTS OF STORMWATER RUNOFF (Currently Sect 1.1)
- 2.0 STORMWATER QUALITY CHARACTERISTICS AND SOURCES (Currently Sect 2.0) (Add Section 3.1)
- 3.0 STORMWATER QUALITY HYDROLOGY (Currently Sect 4.0)
  - Add New Section on runoff reduction source controls (LID)-
    - Basic LID philosophy: interdisciplinary stormwater planning, Step 1 in 4-step process, reducing runoff volume from small/frequent storms (EURV)
    - Flood control-LID relationship
    - Clay soils/geotechnical issues
    - Construction Phasing and Maintenance
    - Water Law and LID
  - Include goal to absorb/infiltrate the EURV

## Chapter 2: STORMWATER QUALITY GOALS AND PLANNING

- 1.0 BMP PLANNING FOR NEW DEVELOPMENT AND SIGNIFICANT REDEVELOPMENT (Existing Chpt and merge with sections from Chpt 1 below)
  - OVERVIEW OF BEST MANAGEMENT PRACTICES: NON-STRUCTURAL and STRUCTURAL BMPS (Currently Chpt 1 – Sect 3.1)
  - POLLUTANT REMOVAL MECHANISMS (Currently Chpt 1 – Sect 3.2)

- STRUCTURAL BMP EFFECTIVENESS (Currently Chpt 1 – Sect 3.3)
  - STORMWATER MANAGEMENT STRATEGY (Currently Chpt 1 – Sect 3.4)
- 2.0 DECISION SUPPORT SYSTEM (DSS):
- Integrate stormwater goals, development type (Urban, Suburban, Redevelopment), project size
  - Volume reduction credits, incentives
  - LID checklist (WWE)
- 3.0 LIFECYCLE COST INFORMATION
- 4.0 REFERENCES

## Chapter 3: STRUCTURAL BEST MANAGEMENT PRACTICES

- 1.0 GRASS BUFFER (GB)
- 1.1 Description (general application (site size/land use density), advantages/disadvantages)
  - 1.2 Design Criteria and Details
  - 1.3 Installation Guidelines (construction phasing)
  - 1.4 Maintenance (currently Chpt 5)
  - 1.5 Guidance for Credits and Combining with Other Structures
  - 1.6 Design Examples (Include DESIGN FORMS)
- 2.0 GRASS SWALE (GS)
- 3.0 POROUS AND PERMEABLE PAVEMENT (PP)
- 4.0 POROUS PAVEMENT DETENTION (PPD)
- 5.0 POROUS LANDSCAPE DETENTION (PLD)
- 6.0 EXTENDED DETENTION BASIN (EDB)
- 7.0 SAND FILTER EXTENDED DETENTION BASIN (SFB)
- 8.0 CONSTRUCTED WETLANDS BASIN (CWB)
- 9.0 RETENTION POND (RP)—SEDIMENTATION FACILITY
- 10.0 CONSTRUCTED WETLANDS CHANNEL (CWC)
- 11.0 PROPRIETARY BMPs – Provide information on categories of treatment devices:  
Flow-through, Volume-based, Filtration Devices
- 12.0 GREEN ROOFS
- 13.0 INDUSTRIAL AND COMMERCIAL (Currently Chpt 6)
- 1.0 INTRODUCTION
  - 2.0 PLANNING CONSIDERATIONS
  - 3.0 POLLUTANT SOURCES

4.0	ASSESSMENT AND SELECTION OF BEST MANAGEMENT PRACTICES
5.0	STRUCTURAL CONTROLS <ul style="list-style-type: none"> <li>• COVERING OF STORAGE/HANDLING AREAS (Currently 11.0)</li> <li>• SPILL CONTAINMENT AND CONTROL (Currently 12.0)</li> </ul>
14.0	OUTLET STRUCTURE DETAILS (Typical Structural details: Chp 4 pg SD1-SD16)
15.0	REFERENCES

## Chapter 4 NONSTRUCTURAL BEST MANAGEMENT PRACTICES

1.0	INTRODUCTION TO NONSTRUCTURAL BMPS (Add Chpt 6 Sect 6: NON STRUCTURAL CONTROLS)
2.0	USE OF NONSTRUCTURAL BMPS
3.0	DISPOSAL OF HOUSEHOLD WASTE AND TOXICS
4.0	USE OF PESTICIDES, HERBICIDES AND FERTILIZER
5.0	ILLICIT DISCHARGE CONTROLS
6.0	GOOD HOUSEKEEPING
7.0	PREVENTATIVE MAINTENANCE
8.0	SPILL PREVENTION AND RESPONSE

## CONSTRUCTION SITE BEST MANAGEMENT PRACTICES (Move to Volume IV)

1.0	INTRODUCTION
2.0	FUNDAMENTALS FOR THE MANAGEMENT OF CONSTRUCTION SITES
3.0	CONSTRUCTION ACTIVITIES MANAGEMENT – PLANNING AND IMPLEMENTATION
4.0	EROSION CONTROL MEASURES - PLANNING AND IMPLEMENTING
5.0	SEDIMENT CONTROL MEASURES - PLANNING AND IMPLEMENTING
6.0	WATERWAY PROTECTION <ul style="list-style-type: none"> <li>• Add Stream Crossings</li> </ul>
7.0	UNDERGROUND UTILITY CONSTRUCTION
8.0	DISPOSITION OF TEMPORARY MEASURES
9.0	MAINTENANCE

## BIBLIOGRAPHY

## INDEX (new)

## APPENDIX

APPENDIX A: SUGGESTED TECHNICAL SPECIFICATIONS (Currently Chp 4 pg SD17-SD 39 )

- AGGREGATE TURF PAVEMENT TECHNICAL SPECIFICATIONS
- PORTLAND CEMENT PERVIOUS PAVEMENT TECHNICAL SPECIFICATIONS
- MODULAR BLOCK PAVEMENT AND COBBLE BLOCK PAVEMENT TECHNICAL SPECIFICATIONS

APPENDIX B MODEL LOW IMPACT DEVELOPMENT CHAPTER FOR LOCAL LAND USE CODE

APPENDIX C MODEL ORDINANCE FOR EROSION AND SEDIMENTATION CONTROL

APPENDIX D MODEL PERMANENT STRUCTURE MAINTENANCE AGREEMENT

APPENDIX E GLOSSARY OF TERMS

APPENDIX F HISORY OF CHANGES (From Introduction)