
TABLE OF CONTENTS

HOW TO USE THIS MANUAL	iii
CHAPTER 1 THE ORDINANCE	1
1.1 Ordinance Background	1
1.2 Ordinance Applicability and Administration	2
Preliminary Review Letter.....	5
Administration.....	5
Models Accepted.....	5
Fees.....	5
Enforcement	5
1.3 State Nonpoint Program Redesign Implications for Dane County	6
1.4 Site and Regional Planning.....	6
Site Planning Techniques to Minimize Stormwater Runoff	6
Identify and Avoid Sensitive Areas.....	7
Minimize Impervious Surfaces	7
Case Example: St. Francis Addition to the Village of Cross Plains	9
How to Credit Conservation and Low-Impact Design	11
Regional Stormwater Treatment	12
Watershed-wide Planning for Stormwater Management.....	12
CHAPTER 2 EROSION CONTROL	15
2.1 Erosion and Erosion Control	15
Understanding Erosion.....	15
Erosion Control.....	15
2.2 Dane County Erosion Control Standards and Requirements.....	16
2.3 The 7.5 Tons/Acre/Year Standard.....	20
2.4 Calculating Soil Loss from Construction Sites.....	21
Universal Soil Loss Equation for Construction Sites	21
USLE Spreadsheet.....	21
Description of Spreadsheet Columns.....	22
Variable Descriptions	22
Button Controls	25
Example Soil Loss Calculation	26
2.5 Gully and Streambank Erosion	28
CHAPTER 3 STORMWATER	29
3.1 Stormwater and the Hydrologic Cycle	29
The Hydrologic Cycle	29
Stormwater and the Hydrologic Cycle	30
Hydrographs	31
3.2 Stormwater Management Standards and Requirements.....	35
3.3 Sediment Control Requirements	41

- 3.4 Policy for Oil and Grease Control 41
- 3.5 Runoff Rate 41
 - Determining Runoff Rate Using TR-55 42
- 3.6 Stable Outlets 42
 - Channel Lining 43
- 3.7 Infiltration 43
- 3.8 Thermal Control 43
 - Thermal Standards 43
 - Locator 45
 - Thermal Considerations 46
 - Thermal Model Description 46
- 3.9 Maintenance Requirements 47

- APPENDIX I – MANAGEMENT PRACTICES I.A-1
- APPENDIX II – INFILTRATION MODELING II-1
- APPENDIX III – HYDROLOGY III-1
- APPENDIX IV – BASIN EFFICIENCY IV-1

HOW TO USE THIS MANUAL

This manual is designed to help landowners, developers and consultants meet the requirements of Dane County's Erosion Control and Stormwater Management Ordinance and aid in the erosion control and stormwater management permit process. Chapters 1 through 3 include information on why erosion control and stormwater management is needed, the standards that must be met, who needs a permit, and the steps to obtain an approved plan and permit. The Appendix includes a list of approved management practices that will assist landowners and builders in selecting a combination of practices to meet the performance standards set by the ordinance. This is not an all-inclusive manual. Users will still need to refer to technical guidance manuals. Other practices not included in the manual may be used as long as they meet performance standards.

This manual is available on the web at <http://www.danewaters.com/business/stormwater.aspx>. Additional printed copies are available for \$20 + \$5 for shipping.

Please help Dane County improve this manual by providing suggestions for future editions. Submit proposed changes and additions by mail or email. To be notified by email when manual updates are available from the web, please request that your name be added to the email registry.

Dane County Land and Water Resources Department
1 Fen Oak Court, Room 208
Madison, WI 53718

lvrd@co.dane.wi.us

