Virginia Stormwater Management Handbook

First Edition
1999

VOLUME I

Virginia Department of Conservation and Recreation
Division of Soil and Water Conservation

COMMONWEALTH of VIRGINIA

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Department of Conservation and Recreation
Division of Soil and Water Conservation
203 Governor Street, Suite 206
Richmond, VA 23219-2094
Phone (804) 786-2064

DCR
Department of Conservation & Recreation
CONSERVING VIRGINIA'S NATURAL AND RECREATIONAL RESOURCES

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TABLE OF CONTENTS

VOLUME I

TABLE OF CONTENTS cont.

VOLUME II

CHAPTER 4. HYDROLOGIC METHODS

CHAPTER 5. ENGINEERING CALCULATIONS

TABLE OF CONTENTS cont.

PREFACE

Welcome to the *Working Draft* of the Virginia Stormwater Management Handbook!! This document is in no way intended to be a trailblazer in the way of new technologies and design standards and methodologies. Rather, the focus was on collecting basic hydrologic, hydraulic, and BMP design principles, most of which have been previously documented in other manuals published within the Chesapeake Bay watershed, and through out the country, and publishing them under one cover. Our number one goal is to promote and develop consistent and effective implementation of stormwater management policies.

So here it is!! This Handbook is a dynamic and evolving resource. Four Technical Bulletins have been developed and are included in the back of the manual. You may wish to insert them in the appropriate chapters or keep them in one place. Additional Technical Bulletins will be developed to provide you with the latest technologies, policies, and guidance. These Technical Bulletins help the Department of Conservation and Recreation (DCR) serve as a clearing house of information on local program development, local program funding ideas and experiences, innovative BMP design, BMP pollutant removal efficiencies, BMP maintenance, ongoing studies, and any other information which would be helpful to Handbook users. Future Technical Bulletins, as well as edits and updates to the Manual, will be available on the DCR website. The best news is that the entire handbook will be available in PDF format on our website: www.dcr.state.va.us

The list of Technical Bulletin topics being requested by our clients is beginning to look like the makings of another Handbook. DCR, however, is committed to providing continual guidance on stormwater issues. We are also interested in your comments. If there are issues which have not been addressed, or issues which deserve more attention, please contact us in writing at:

Stormwater Management Handbook
203 Governor Street, Suite 206
Richmond, Virginia 23219

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We take our hats off to all those who have developed technical manuals and handbooks before us. There are as many different opinions regarding style and format as there are people who have an interest in hydrology and hydraulics. To quote a famous philosopher: "What a long strange trip its been".

Many people have played a part in the completion of this Handbook (whether they realize it or not!). Jimmy Edmonds provided great support by taking on the incredible workload of both the Stormwater and Erosion Control Programs during some lean times, always doing whatever was needed while supporting the staff. His efforts and commitment are greatly admired and appreciated. Many others also deserve thanks, however, this Handbook is already thicker than was ever intended. (We slowly bought into the engineering strategy of stormwater reports: thicker is better.) The following list of people hopefully includes everybody involved, both directly and indirectly. Many thanks go to:

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