

The Florida Stormwater, Erosion, and Sedimentation Control Inspector's Manual

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INTRODUCTION

Florida's stormwater regulatory program requires the use of Best Management Practices (BMPs) during and after construction to minimize erosion and sedimentation and to properly manage runoff for both stormwater quantity and quality. However, insufficient staffing among regulatory agencies, combined with lack of awareness among contractors, has resulted in a low rate of compliance.

To improve this situation the Department of Environmental Protection has developed a training program curriculum on the use, installation, and maintenance of erosion, sedimentation, and stormwater BMPs. The training program is primarily directed towards inspectors and contractors, however, permit reviewers and public works personnel will also benefit from this program.

This manual is designed to be a comprehensive reference source for the conduct of your daily professional duties. Do not attempt to memorize this entire manual. Instead, become familiar enough to know where to find information quickly. Review the manual periodically to improve and maintain your technical and personal skills. Refer to this manual when facing a new situation or when in doubt. Try to keep this manual with you while conducting your duties.

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Mission Statement

The objectives of this training and certification program are:

- to assure that the desired benefits of stormwater management systems are being achieved.
- to assure that both the public and private sectors have enough inspectors trained in the proper installation and maintenance of BMPs during and after construction.
- to assure a consistent level of technical expertise and professional conduct for all individuals responsible for inspecting erosion and sediment controls and stormwater management systems.

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LIST OF ABBREVIATIONS

AASHTO -- American Association of State Highway and Transportation Officials
ASCE -- American Society of Civil Engineers
ASTM -- American Society for Testing and Materials
BCMP -- Bituminous Coated Metal Pipe
BMP -- Best Management Practice
CB -- Catch Basin
c.f.s. -- cubic feet per second (also cfs)
cm -- centimeter
CMP -- Corrugated Metal Pipe
CMU -- Concrete Masonry Unit (Cinder Block)
CPESC -- Certified Professional in Erosion and Sediment Control
 d_{50} -- the average spherical equivalent diameter (of stone aggregate)
 d_{max} -- the maximum spherical equivalent diameter
EPA -- United States Environmental Protection Agency
F.A.C -- Florida Administrative Code
FDEP -- Florida Department of Environmental Protection
FDOT -- Florida Department of Transportation
FES -- Florida Engineering Society
F.S -- Florida Statute
g -- gram

GIS -- Geographic Information Systems

ha -- hectares

HDPE -- High Density Polyethylene

IECA -- International Erosion Control Association

i.d. -- inside diameter

IFAS -- Florida Institute of Food and Agricultural Sciences

K -- kilogram

m -- meter

MH -- Man Hole

mm -- millimeter

NRCS -- Natural Resources Conservation Service

N.T.S -- Not to scale

o.c -- on center

o.d -- outside diameter

P.E. -- Professional Engineer

PVC -- Poly Vinyl Chloride

RCP -- Reinforced Concrete Pipe

SCS -- Soil Conservation Service

SHWT -- Seasonal High Water Table

SWCS -- Soil and Water Conservation Society

USDA -- United States Department of Agriculture

USLE -- Universal Soil Loss Equation

USGS -- United States Geological Survey

WMD -- Water Management District

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The Stormwater Inspector's Creed

As a Stormwater Inspector, I dedicate my professional knowledge and skill to the advancement and betterment of the environment, especially the protection and enhancement of Florida's water resources for future generations.

I Pledge:

- To give the utmost effort in my personal performance.
- To participate in none but honest enterprise.
- To live and work according to the laws of humanity and the highest standards of professional conduct.
- To work in partnership with all segments of Florida's citizenry toward the common goals of compliance.
- To provide consistent and impartial implementation of the rules and regulations.

- To place service before profit, the honor and standing of the profession before personal advantage, and the public welfare and environment above all other considerations.
- To provide beneficial services which enhance the quality of life for Florida's citizens and visitors.
- To generate growth of the profession through marketing, promotion, advertising, and implementation of sound environmental management practices.
- To continue to monitor performance and maintenance of environmental management systems for the betterment of humankind.
- To inspect environmental management systems using timely and adequate documentation, so that all apparent violations may be immediately investigated for necessary remedial action.

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