

SWMM-based Urban Storm Sewer System Modeling

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Abstract. SWMM modeling plays an important role in the urban drainage system management. The paper depicts several modeling steps, including model parameters, dynamic wave options, CFL condition and equivalent pipe and model evaluation. For dynamic wave options, combination of "ignore" and "both" is relatively better than others. Impact of friction equation is very tiny. Especially, "Froude No." is recommended not to use, while "slope" can make a good result. For inertial terms, "ignore" is considered as the best option. Equivalent pipe is used to deal with SWMM numerical instability, and coefficient of correlation, Nash-Sutcliffe efficiency are used to assess modeling performance.

Introduction

Simulation modelling plays an important role in the urban drainage system management. It is aimed at understanding and predicting the behaviour of the systems so that effective solutions to structural and operational problems can be tried out and evaluated. So simulation modeling is popular with cities all over the world. But how to build a successful urban storm sewer modeling is still a concern. In this context, it aims to depict SWMM modeling method using a case study.

The EPA Storm Water Management Model (SWMM) is a world famous dynamic rainfall-runoff simulation model used for single event or long-term (continuous) simulation of runoff quantity and quality from primarily urban areas^[1]. It is used as modeling platform in the paper.

Case study

It consists of 158 nodes, 157 links, 28 sub-catchments and 3 rain gauges in the current project. The total area of the catchment is about 1462 hectare. Backwater effect from tide is very strong, and should be taken into consideration. So dynamic wave method is selected as pipe flow routing option in the project.

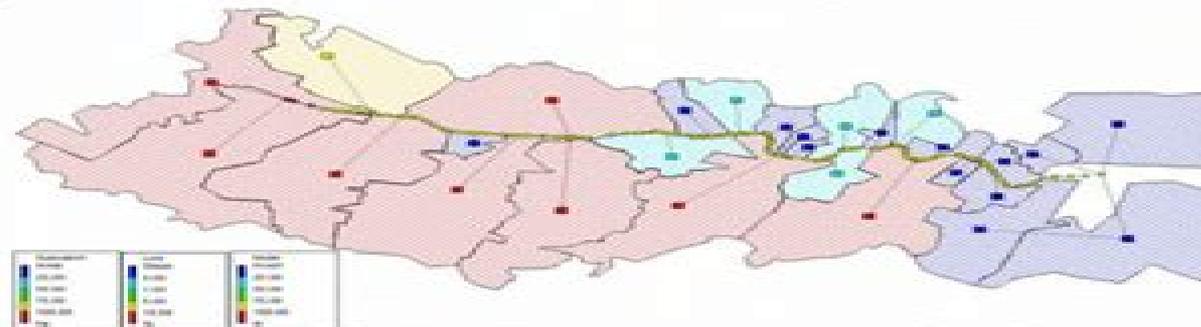


Fig.1 SWMM map of the case study

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