

# **Hydrology Standards**

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VOLUME 2 of the Sacramento  
City/County Drainage Manual

December 1996

The *Sacramento City/County Drainage Manual* was developed jointly by the Sacramento County Water Resources Division and the City of Sacramento Department of Utilities Division of Engineering Services. It consists of the following five volumes:

**Volume 1: Goals and Policies**

**Volume 2: Hydrology Standards**

**Volume 3: Hydraulic Structures Design Standards**

**Volume 4: Design of Joint-Use Stormwater Detention Standards**

**Volume 5: New Development Stormwater Quality Standards**

#### **UPDATE October 2006**

Volumes 1 and 4 are no longer in use.

Volume 2 is still current and required. The original computer program SACPRE was replaced by SACCALC.

Volume 3 was never completed.

Volume 5 was replaced by the “Guidance Manual for On-Site Stormwater Quality Control Measures” and is available on-line at [www.stormwater.org](http://www.stormwater.org) under Documents. It is currently being revised.

# Acknowledgements

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# System of Units

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## *Introduction*

This volume was written to accommodate both the English System and the International System (SI) of units. Values given in the text, tables and equations of this volume are given in the English system of units with the International System units provided in parentheses. Some tables and figures in this volume are given entirely in the English System with an identical table or figure provided in the International System. The International System tables and figures are indicated with the letters SI, following the table or figure number. The SI figures are located at the end of Chapter 2 and the SI tables are on the disk accompanying this volume.

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## *The International System of Units*

The International System of Units, SI, was established in 1960 by the General Conference of Weights and Measures, an international treaty organization. The SI system is derived from earlier metric systems, but it is intended to supersede them all.

The SI system has the following features:

- There is only one recognized unit for each variable
- The system is fully consistent
- Scaling of units is done in multiples of 1000
- Prefixes, abbreviations, and symbol-syntax are defined rigidly.

The SI units used in this volume are given below.

Quantity	Name	Symbol
Length	Meter	m
Area	Square meter	m <sup>2</sup>
Area (acceptable non-SI)	Hectare	ha (1 ha = 10,000 m <sup>2</sup> )
Volume	Cubic meter	m <sup>3</sup>
Time	Second	s
Time (acceptable non-SI)	minute hour	min h

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\* The appendix is available upon request from Sacramento County Water Resources Division.

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