

**Date:** March 23, 2017

**To:** Gerald Checco, Director MSDGC

**From:** Tom Crawford, P.E. Principal Engineer, Development Services, MSDGC

**Copies To:** Pat Arnette, P.E., Steve Parker, P.E.,

**Subject: Metropolitan Sewer District of Greater Cincinnati, Rules and Regulations, Section 303 Detention Requirements for Storm Water Connections or Modifications  
Policy 2: Clarification on Pre & Post Development Runoff Coefficients**

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The Metropolitan Sewer District of Greater Cincinnati's Rules & Regulations (MSDGC R&R) require that storm water connections or modifications which involve storm water ultimately tributary to the combined sewer system shall be subject to the District's Policy for Storm Water Detention Facilities, Section 303.


Section 303, Item E provides a table of Runoff Coefficients (C-values) adopted for the use in the Rational Storm Water Method. This section also states "Composite Runoff Coefficients – If the runoff coefficient varies over a subarea, a composite coefficient can be calculated as an average, weighted by the area of the various runoff coefficients."

It has been the past practice of MSD Development Services to require the use of composite runoff coefficients in order to reflect the actual ground conditions. This policy will continue requiring the use of composite runoff coefficients.

The District, as required under State & Federal Regulations, maintains a capacity assurance program for all sewers discharging to the waters of the State of Ohio and of the United States. For combined sewers this means that the sewer shall not be used in a way that exceeds the design criteria of the sewers. The majority of combined sewers in the MSD service have been designed (full flow) to convey the 10-year storm from lands having a run-off coefficient of 0.45.

It has been the standard practice of MSDGC Development Services to apply the maximum pre-development runoff coefficient at 0.45 for areas of redevelopment. The MSDGC R&R have allowed for this under Section 303 stating "For protection of the environment and downstream property, the District's detention requirements may be more restrictive in sensitive areas." This policy will continue to require a cap of the runoff coefficient at 0.45 for the pre-development conditions when the runoff coefficient is calculated to be above this value.

APPROVED:



Gerald Checco, Executive Director, MSDGC