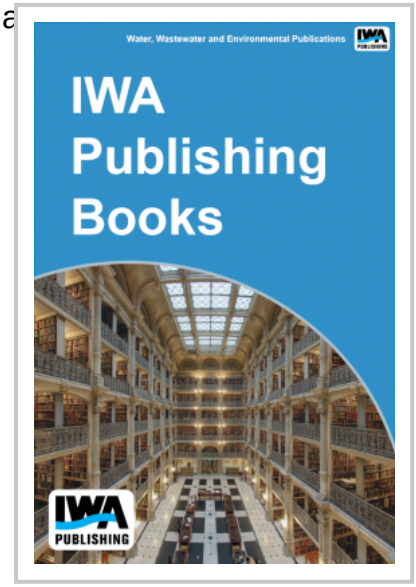
Decentralized Stormwater Controls for Urban Retrofit and Combined Sewer Overflow Reduction



Decentralized stormwater controls provide a significant a strategy to limit the number of overflows from combined sewer systems. This research evaluates the functional processes employed by decentralized controls and possible methods of quantifying stormwater retention and detention mechanisms. Pilot installations and modeling are demonstrating significant reductions in runoff volumes especially when targeted at problematic catchment areas of the collection system. The technical considerations and perceived impediments of urban retrofits are analyzed and a methodology for modeling effectiveness is outlined. The comprehensive benefits gained from decentralized controls, in addition to stormwater volume reductions, are also presented. The results of this research provide a framework for communities to begin implementing decentralized controls as a component of a combined sewer inflow reduction program. Analytical assessments of categorical controls are provided to aid in the selection of appropriate decentralized techniques and strategies. This report is available only as a pay-per-view item.

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