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N. Weinstein

Decentralized Stormwater Controls for Urban Retrofit and Combined
Sewer Overflow Reduction (Werf Report)



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Decentralized stormwater controls give a significant and promising alternative strategy to limit the number of overflows from mixed sewer systems. The comprehensive benefits gained from decentralized settings, in addition to stormwater volume reductions, are also shown. The results of the research provide a framework for communities to begin with implementing decentralized settings as a component of a combined sewer inflow decrease program. The technical considerations and perceived impediments of urban retrofits are analyzed and a methodology for modeling effectiveness is outlined. This study evaluates the functional procedures employed by decentralized settings and possible ways of quantifying stormwater retention and detention mechanisms. Pilot installations and modeling are demonstrating significant reductions in runoff volumes particularly when directed at problematic catchment regions of the collection system. Analytical assessments of categorical settings are provided to aid in the selection of appropriate decentralized techniques and strategies.



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