

The Milwaukee River Basin Total Maximum Daily Loads

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Under Great Lakes Restoration Initiative funding, the Milwaukee Metropolitan Sewerage District (MMSD) commissioned a study to develop total maximum daily loads (TMDLs) for phosphorus, sediment, and fecal coliform bacteria in the 880-square-mile Milwaukee River Basin, which contains the Menomonee River, Kinnickinnic River, and Milwaukee River watersheds, and the Milwaukee Harbor estuary. A TMDL is the maximum amount (expressed in load per day) of a pollutant a water body can receive from both point and non-point sources and still meet water quality standards or targets. The purpose of the TMDL study was to allocate loads of total phosphorus, sediment (Total Suspended Solids), and fecal coliform bacteria in a manner that will result in attainment of applicable designated uses throughout the Basin. As part of the effort, an implementation plan is also under development to lay out actions aimed at achieving the loading allocations identified by the TMDL calculations.

The presentation is relevant to this year's WAFSCM conference theme because it will not only touch on the regulatory motivation behind the study and provide an overview of the TMDL development process, but will also outline the approaches used to calculate allowable loads for the varied pollutant sources throughout the Milwaukee River Basin.

Speakers will be Dan Bounds, Kim Siemens, and a WDNR team member.

Bios:

Dan Bounds, PE is a principal water resources engineer and senior project manager with CDM Smith. Dan holds a B.S. in civil engineering from the University of Illinois and an M.B.A. from Eastern Illinois University. Dan serves as CDM Smith's project manager for the Milwaukee River Basin TMDL development. He has led the development of watershed plans and water quality programs in several states across the US. Dan is a Diplomate Water Resources Engineer within the American Academy of Water Resources Engineers.

Kim Siemens, PE is a water resources engineer with CDM Smith in Milwaukee. Kim has a B.S. and an M.S. in environmental engineering from Tufts University. She has over ten years of experience conducting hydrologic & hydraulic modeling and water quality analyses for municipal, state, and federal clients.