Total Maximum Daily Loads (TMDLs): A Watershed Planning Tool for Counties



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This Presentation Covers...

- National Association of Counties (NACo) / Environmental Protection Agency (EPA) partnership
- Basics of the Impaired Waters Listing and Total Maximum Daily Load (TMDL) Programs
- Overview of TMDLs to Stormwater Permits Draft Handbook

NACo / EPA Partnership Highlights

2005	TMDL Outreach Kickoff
	Western Interstate Region and National Conference Meetings
2006	"Tools for Protecting and Improving Water Quality" Workshop
	County issue brief with TMDL case studies
2007	■NACo wins EPA grant for water quality capacity-building project
2008	Tools for Rural Counties to Protect Water Quality,"
	"Safeguarding Our Most Precious Resource," and
	"Water Quality: Total Maximum Daily Load" Workshops
2009	Stormwater and Urban Runoff" Webinar











TMDL Requirements

- States develop TMDLs for waters on 303(d) list, and in accordance with priority ranking
- EPA provides an <u>8-13 year time frame</u> to complete the development of a TMDL once a water body is listed

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TMDL alternatives may exist in some circumstances



TMDLs and Stormwater

- Thousands of waters listed for stormwater-related impairments
- Pollutants commonly associated with stormwater:
 - Pathogens
 - Sediment
 - Nutrients
 - Toxics (PCBs, metals)
- Difficult to know total number of stormwatersource TMDLs needed for all listed waters





- Identifying TMDL Water Quality Target → Stormwater Challenges:
 - Sometimes hard to identify specific pollutant
 - Impairment → result of cumulative effects of pollutant loading <u>and</u> physical effects from stormwater
 - Use of surrogate targets for stormwaterrelated pollutants
 - e.g., flow or impervious cover



EPA TMDL and Stormwater Web site http://www.epa.gov/owow/tmdl/stormwater/

- Draft TMDLs to Stormwater Permits Handbook (November 2008)
- TMDL-Stormwater Examples
 TMDLs with Stormwater Sources: A Summary of 17 TMDLs
- TMDL-Stormwater Permit Case Studies
- Innovative TMDLs using Surrogates for Stormwater Pollutants

 Impervious Cover
 - Hydrology (Flow)
- TMDL-Stormwater Technical Resources
 - Incorporating Green Infrastructure into TMDLs
 - Establishing TMDL Wasteload Allocations (WLAs) for Storm Water Sources and NPDES Permit Requirements Based on Those WLAs

