MISSOURI (REGION 7)

A Snapshot of Missouri's TMDL Program (October 2008)

The Basics
Key Agency/Department & website(s)

> Missouri Department of Natural Resources
> Division of Environmental Quality
> http://www.dnr.mo.gov/env/wpp/tmdl/index.html

TMDL Program Structure/Placement

> Housed in Water Protection Program,
> Water Pollution Control Branch

By the Numbers

Number of Impaired Waters	174
Number of Causes of Impairment	30
Top Five Causes of Impairment	1. Organic Enrichment/Oxygen Depletion
	2. Sediment
	3. Nutrients
	4. Cause Unknown
	5. Pathogens

Approximate Number of TMDLs Developed Annually	18
Total Number of TMDLs Approved (1995 to present, incl. any est'd by EPA)	148
Total Number of TMDLs Approved in 2005/2006/2007	6/44/14
2008 303d/Integrated Report Submission Status (Date)	Early 2009
Approximate Number of FTEs Working on TMDL Issues	4 + 6 field support

TMDLs

EPA Under Consent Decree to Develop TMDLs?	Y
Broad-Scale? (*e.g.*, watershed, multi-jurisdictional, etc.)	Y

Non-TMDL Options

Use of Non-TMDL Options to Address Impaired Waters?	Y
Permit in Lieu of TMDL (Cat. 4b)	

Funding

Approximate Annual Budget for TMDL Program	$396,376
Primary Source(s) of TMDL Program Funding	federal 319 funds

TMDL Implementation

TMDL Implementation Required?	N

Innovations
Example(s) of Any Innovative Approach(es) Employed

> -- Permit in Lieu of TMDL (Cat. 4b)

TMDLs that Represent a Particular Achievement

--http://www.dnr.mo.gov/env/wpp/tmdl/pil-stoverlagoonsfinal.pdf
--http://www.dnr.mo.gov/env/wpp/tmdl/bynum-pilo-appr-subm.pdf

Barriers

Top Three Barriers to TMDL Development

1. resources (*e.g.*, funding, personnel) to develop and complete TMDLs
2. sufficient data to calibrate water quality models or develop innovative approaches
3. definitive linkage between general and numeric criteria (e.g. nutrient impairments)

Top Three Barriers to TMDL Implementation

1. consent decree schedule prohibits spending adequate time on implementation efforts
2. formation of watershed groups can be complex process
3. resources (*e.g.*, funding, personnel) to initiate, oversee, and monitor implementation efforts