Massachusetts Watershed Based Plans

Massachusetts s.319 Program Challenges

- Nearly half of MA regulated as MS4
- 319 funds cannot be applied to regulated stormwater
- Problems require complex, multi-year projects
- An integrated approach to polluted runoff is needed

Most impairments are in MS4 areas

Impairment Category
- 4A – TMDL Completed
- 5 – TMDL Required
Massachusetts Watershed Based Plans

WBPs not just for 319s!

- MS4 SWMPs
- TMDL program vision / alternative TMDLs
- Lake/watershed groups
- Municipal planning efforts
- Education/outreach
- Partner programs and agencies
Project Vision

Thousands of watersheds - carefully tailored to the correct scale for planning

- Rivers
- Lakes/Ponds
- Coastal Watersheds
- MS4s
Project Vision

Simplify and support statewide WBP development with web-based **resources, tools, and guidance**.

### 9 Required Elements of a WBP

A. ID causes /sources of pollution requiring control.

B. Determine pollutant load reductions needed.

C. Develop measures to achieve water quality goals.

D. Determine technical/financial assistance needed.

E. Information/education component.

F. Develop implementation schedule.

G. Develop interim milestones to track implementation.

H. Develop criteria to measure progress towards goals.

I. Monitoring component.
Water Quality Modeling

Hydrologic Response Unit (HRU) Characterization

- Impervious Cover (MassGIS)
- Land Use (MassGIS)
- Soil Hydrologic Group (USDA)
Water Quality Modeling

Hydrologic Response Unit (HRU)
Used to calculate annual pollutant loads

BMP
Estimate performance for P, N and TSS
Get Started!
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