

What can you do?

Consider land use effects on water quality when:

- **Planning for your community**
 - **Identify water resources**
 - **Identify water quality protection goals**
 - **Consider open space**
 - **Lanes Run Watershed**
 - **Dry Run Watershed**
- **Evaluating site designs**
- **Adopting new best practices**
 - **Consider low impact development practices**

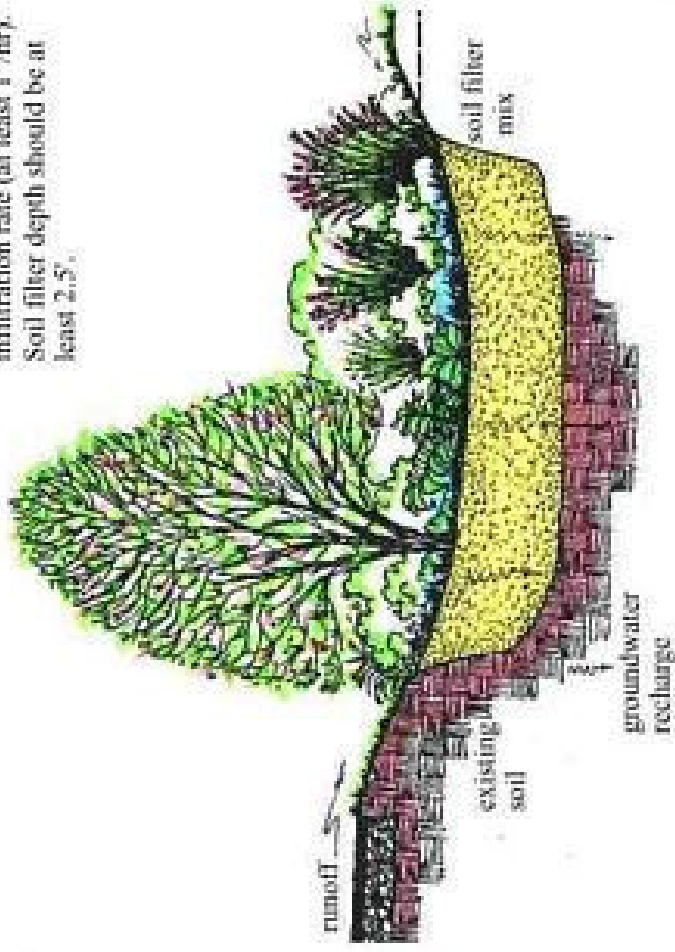


Rain Garden Partnerships?

- LID method that infiltrates into the ground

GROUNDWATER RECHARGE FACILITY

In-situ soils should have a high infiltration rate (at least 1"/hr).
Soil filter depth should be at least 2.5'.



MCM 6: Pollution Prevention

- Municipal Facilities Operations
 - Oil collection
 - Truck wash
 - Salt storage
- Street Sweeping
- Recycling Program
- Employee Training

MCM “7”: Wrapping up: Evaluation

- Annual reports and compilation of numbers
 - Are we on track for compliance?
 - Were measurable goals met?
 - Are we effectively implementing the components?
 - Have there been noticeable effects?
 - What needs to change?

2008-2013: Setting the Program in Motion

- Continue to educate – variety of topics/methods
- Carry out public involvement activities
- Identify, track, locate, and fix illicit discharges
- Review and inspect: pre-, during, and post-construction
- Enforce, enforce, enforce
- Record Keeping
 - Public reporting (source, issue, actions...)
 - Inspections, NOV's, fines, permit applications...
 - Inventory of permanent BMPs – location, maintenance, responsible party...
 - #'s, #'s, #'s – needed for measurable goals, evaluation

EXECUTING THE NEW PLAN ELEMENTS

- Enforcement of Ordinances
 - Construction Run-off Inspection
 - Illicit Discharge, Detection, & Elimination (IDDE) Program
 - Post-Construction Storm Water Control Program



New for 2008-2013

- MCM 1
 - Bluegrass Pride – Partnership w/ other MS4s
 - KY Environmental Education Council
 - Better Website, Hotline
- MCM 2
 - Expand SWAC
 - Rain Garden Alliance
- MCM 3
 - Begin screening
 - Expand Resources
- MCM 4
 - Qualified Inspector Program (KEPSC)
 - Expand Resources
- MCM 5
 - Begin inspections
 - Expand Resources
- MCM 6
 - Environmental Awareness Handbook
 - Expand Street Sweeping / Leaf Pickup / Brush Pickup
 - Recycling
 - Update facilities (truck wash, etc.)
- “MCM 8” – Capital Improvements
 - Set aside funding for projects to improve our infrastructure
 - Back yard drainage problems
 - Establish Sinking Funds for routine equipment replacement

“The Big Stick”

- EPA is stepping up enforcement

“The Environmental Protection Agency and its state counterpart filed a lawsuit against the Lexington-Fayette Urban County Government on Monday for violations of the Clean Water Act due to the city’s aging and ineffective storm-sewer system” Nov 2006

“The Big Stick”

- ..numerous illicit cross connections between the sewer collection and its MS4
- ..discharged pollutants from its treatment works into navigable waters
- ..**failed** to conduct representative data collection
- ..**failed** to conduct on-going field screening
- ..**failed** to establish and maintain funding to ensure accomplishment of the activities designated
- ..each day of violation is a separate violation
- ..violated O&M provisions of permit on each SSO event
- ..fines of up to **\$32,500 per day**

Three Keys to Success

(also the three biggest concerns)

- Adequate Staffing
 - Review & Inspection
 - Reporting
 - Enforcement
- Adequate Funding
- Community Buy-In
 - Citizens
 - Developers
 - Community Leaders

How's it going to happen?

- Regulations
- Enforcement
- Education
- Demonstration
- Risk Taking
- Flexibility
- Compromise
- Co-Permitting

- KyTC
- Other MS4s
- Georgetown College



Program Needs

- Staff
 - SWM Program Manager
 - Administrative Support
 - Maintenance Crew / Operators
 - Inspector
- Equipment
 - Sweepers
 - Vacuum Truck
 - Backhoe
 - Dump Truck / Trailer
 - Pick up trucks
 - Leaf Collection Equipment



- Materials
 - Pipe, Stone, Concrete, Device inserts
 - Publications, Stenciling, clean-up events
 - Computers, copies, office space
- Capital Improvements
 - Drainage Projects
 - Asset Management
 - Mapping updates
- Funding Mechanism
 - Administrative Manager

Current Estimate \$850,000 / yr.

How we going to pay for it?

- Taxes
 - Based on property value, not usage
 - Based on income level, not usage
- Grants
 - Undependable
 - Low \$\$
 - Many programs, such as Section 319, prohibit funding SWM programs with grant \$.
- Loans / Bonds
 - Delays the payment; becomes a debt snowball
- Utility / User Fees
 - Based on actual impact to stormwater
 - Acknowledges efforts to lessen impacts

Upcoming Schedule

- Notice of Intent - July 2007
- SWAC mtgs. Dec. & Jan. to develop Matrix
- Draft Permit Matrix – Jan 2008
- 2008-2013 permit effective July 1, 2008
- Quarterly SWAC meetings
- Annual Reporting – March each year

SUMMARY

- The foundation is laid with ordinance and manual completion
- The storm water program will need to expand from this point
- Keys to the success are:
 - Staffing and resources to implement the plans
 - Adequate review and inspection capabilities
 - Adequate enforcement capabilities

Bottom Line

- Here to stay
- GROWING financial obligation
- No best way – rather, workable solutions for the community
- Creating the plan for the future – it's our choice



Thank You

Eric W. Larson, PE, CFM, AICP
City Engineer
City of Georgetown, Kentucky
Department of Public Works
235 West Yusen Way
Georgetown, KY 40324
(502) 863-9855 or (502) 867-2000
(502) 863-7813 fax
eric.larson@georgetownky.gov