KYTC New MS4 Permit
Issued
August 8, 2012
Background

- 1972 Clean Water Act
- 1991 Large & Medium MS4s
- 2003 sMS4 KYTC Copermittee
- 2012 KYTC MS4 Permit
KYTC Permits

- KYR10 Construction
- KYG50 Maintenance Facilities
- KYS03 sMS4
Part I

- Applicability
  - KYTC ROW & Facilities located within urbanized boundaries of MS4s Across the State
PART II SWQMP

- Develop a SWQMP to Comply with MCMs
  - MCM I Public Education & Outreach
  - MCM II Public Involvement/Participation
  - MCM III IDDE
  - MCM IV Construction Site Control
  - MCM V Post-Construction management
  - MCM VI Good Housekeeping
  - TMDL (Total Maximum Daily Load)
MCM I
Public Education & Outreach

- Public Awareness
- Revise EA Handbook & Training
- UKT2 Training
- Revise KYTC MS4 Website
- Participate in “Partner” Programs
- Update MOP
MCM II
Public Involvement and Participation

- Adopt-a-highway
- State Fair
- Rest Areas
- KEEN
- Statewide Survey
- Participate with “Partners”
MCM III
Illicit Discharge Detection and Elimination

- Develop Program
- Training
- Mapping > 36” Diameter
- Utilize Partnerships
- Inspect in perpetuity
MCM IV
Construction Site Stormwater Runoff Control

- Develop Program
- Comply w/KYR10
- Individual Construction Permits
- Training KEPSC-RI
- Track NOIs & NOTs
MCM V
Post-Construction Stormwater Management in New Development & Redevelopment

- Ron Will Review
Develop a Menu of Structural and non-Structural Post Construction Stormwater BMPs

Regularly Update Drainage Manual
WHAT ARE PC BMPs?

- A water quality structure that has been left in place once construction has concluded.
- What is the most common KYTC PC BMP? Hint: It is Green.
- Examples
Karst (Sink Hole) Protection
Infiltration basins are designed to collect stormwater from impervious areas and provide pollutant removal benefits through detention and filtration.
Infiltration Trench
Bioretention

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'.
Rock Check Dams
Bioswales (Grass swales)
Grass Filter Strips
Vegetated Filter Strips

- Stone-filled trench level spreader
- Grassed filter strip
- Slope of strip toward stream is 5% or less
- Forested filter strip
- Top elevation of strip on same contour and directly abuts level spreader
- Stream
Level Spreader
• Preformed Scour Hole
• Porous Asphalt Pavement
• Pervious Concrete Pavement
• Eliminating Curbs and Gutters
• Wet Ponds
MCM VI
Pollution Prevention/Good Housekeeping for Operations & Maintenance

- Develop Program
- Includes Roads, D.O. Rest Areas & Maintenance Yards
- Inventory & Assess
- Update EA Handbook
- Quality Control Facility Plans
TMDLs

- Division of Water establishes TMDLs
- TMDLs are Primarily for Fecal Coliform
- KYTC and MS4 Community collaborate
That’s All Folks