



## PHASE II IN OHIO

Where We Are & Where We Are Going

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## WHAT'S CHANGED?

- Post-construction storm water management includes treatment of the Water Quality Volume (WQv)
  - $WQv = 0.75 \times C \times A / 12$ 
    - Plus 20% to store accumulated pollutants
    - C is a function of impervious area
  - Target Drawdown Time
    - 24 to 48 hrs depending on practice
    - For extended detention ponds and wetlands, no more than 1/3 WQv can discharge in the first 1/3 of the drain time
  - Long-Term Maintenance Plans required

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## WHAT'S CHANGED?

- Local MS4 Ordinances
  - Must be updated to meet state minimum requirements no later than mid-2011
    - Local plan review includes review of SWP3
  - Riparian and Wetland Setbacks
    - Approximately 50 communities in NE Ohio now have some setback requirement
- MS4s are tasked with ensuring post-construction BMPs maintenance

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## WHAT'S CHANGING?

● Lake Erie Balanced Growth Program

○ Communities are being encouraged to adopt better site design codes

○ Conservation Development

○ Transfer of Development Rights

○ Smart Growth/Compact Development



Linking Land Use and Lake Erie:  
Best Local Land Use Practices

<http://www.lakeerie.ohio.gov/BalancedGrowth/BestLocalLandUsePractices.aspx>

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## WHERE ARE WE GOING?

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## MOVE BEYOND THE POND

- Greater emphasis on "green infrastructure" and "low impact development"
  - Systems and practices that use or mimic natural processes to
    - Infiltrate,
    - Evapotranspire (the return of water to the atmosphere either through evaporation or by plants), or
    - Reuse stormwater or runoff on the site where it is generated
- These practices reduce the volume of storm water runoff generated by development
  - Ponds do not reduce runoff volume

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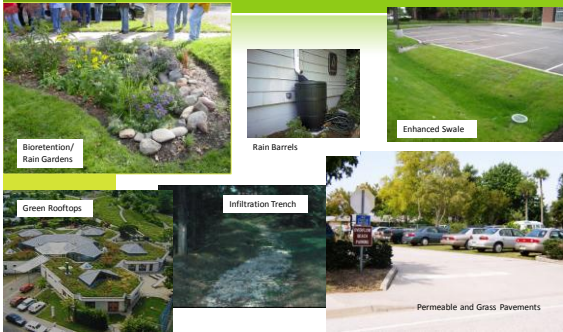
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## PREFERRED BMPs




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## LID AND OHIO REGULATIONS

- Ohio EPA General Storm Water Permit for Construction Activities
  - Lists enhanced swales, bioretention and infiltration practices as BMPs approved for general use throughout the state
  - Allows the use of green roofs, permeable pavements, rain barrels and non-structural BMPs
    - With review and approval from Ohio EPA and/or local MS4 operator
  - Applies statewide, regardless of location

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## LID AND OHIO REGULATIONS

- Ohio EPA currently sets no specific runoff reduction requirement, but
  - The agency is aware of national trends
  - Is issuing watershed-specific storm water permits
    - Darby and Olentangy River permits require stream setbacks and groundwater recharge
    - Permits for the Chagrin and Grand River expected to contain temperature requirement in addition
- Local regulations set by MS4 programs may also provide "credits" for LID designs or retrofits

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# WHAT DO YOU WANT YOUR COMMUNITY TO LOOK LIKE?

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## For More Information

### Websites

Ohio EPA  
[www.epa.state.oh.us/dsw/storm/index.html](http://www.epa.state.oh.us/dsw/storm/index.html)  
[www.epa.state.oh.us/ocapp/storm\\_water.html](http://www.epa.state.oh.us/ocapp/storm_water.html)  
USEPA  
[http://cfpub.epa.gov/npdes/home.cfm?program\\_id=6](http://cfpub.epa.gov/npdes/home.cfm?program_id=6)

**Ohio EPA Northeast District Office**  
Dan Bogoevski (330) 963-1145  
[dan.bogoevski@epa.state.oh.us](mailto:dan.bogoevski@epa.state.oh.us)  
Kelvin Rogers (330) 963-1117  
[kelvin.rogers@epa.state.oh.us](mailto:kelvin.rogers@epa.state.oh.us)  
Chris Moody (330) 963-1118  
[chris.moody@epa.state.oh.us](mailto:chris.moody@epa.state.oh.us)

**Ohio EPA Central Office**  
John Morrison (614) 644-2259  
Mike Joseph (614) 752-0782

**Central District Office**  
Harry Kallipolitis (614) 728-3844

**Northwest District Office**  
Lynette Hablitzel (419) 352-8461  
Pat Tebbe (419) 352-3016

**Southeast District Office**  
Aaron Wolfe (740) 385-8501

**Southwest District Office**  
Chris Cotton (937) 285-6442

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