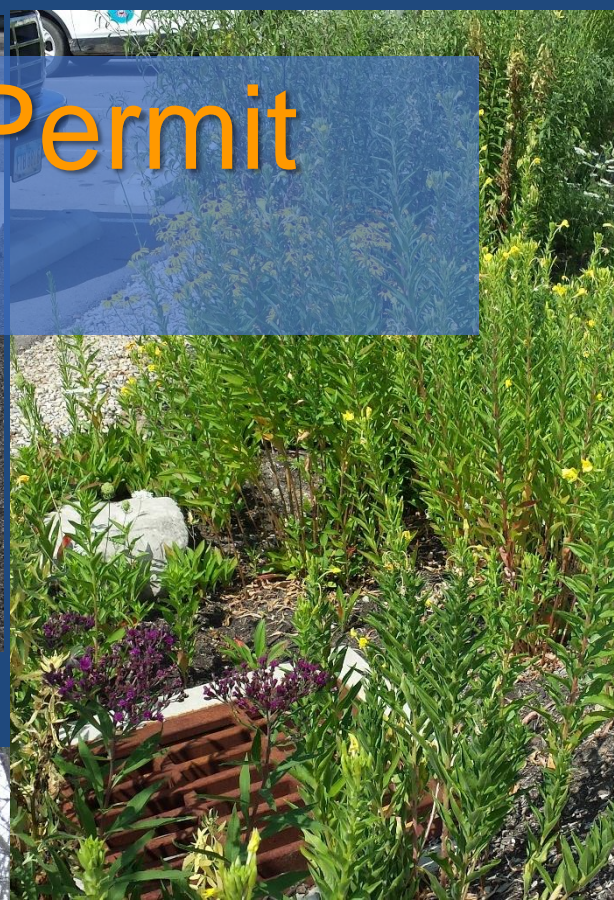
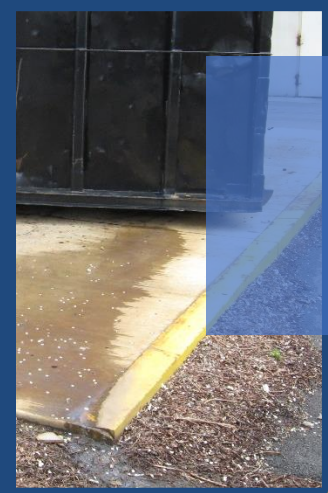


# 2018 - Construction General Permit John Mathews





# 2018 - Construction General Permit Changes

## 1. Sediment controls

- All sediment basins have drain times of at least 48 hours
- Sediment basins & traps are for areas of concentrated flow (not just > 10 ac)
- Minimum 12" sediment barrier as replacement for silt fence



# 2018 - Construction General Permit Changes

Capture the WQv in standard practice (table 4a/4b) for all size sites

But for  $\geq 2$  acres:

- You may use an alternative practice if you show that a 4a/4b practices are not feasible and the regulated MS4 approves.  
(We encourage Green infrastructure BMPs.)

# 2018 - Construction General Permit Changes

Changes to the WQv Calculation:

$$WQv = Rv \cdot P \cdot A / 12$$

- i. Volumetric runoff coefficient  $Rv = 0.05 + 0.9i$
- ii. Precipitation (P) = 0.9 inches



# 2018 - Construction General Permit Changes

- Additional options and notes for Table of Practices

**Table 4a Extended Detention Post-Construction Practices with Minimum Drain Times**

Extended Detention Practices	Minimum Drain Time of WQv
Wet Extended Detention Basin <sup>1,2</sup>	24 hours
Constructed Extended Detention Wetland <sup>1,2</sup>	24 hours
Dry Extended Detention Basin <sup>1,3</sup>	48 hours
Permeable Pavement – Extended Detention <sup>1</sup>	24 hours
Underground Storage – Extended Detention <sup>1,4</sup>	24 hours
Sand & Other Media Filtration - Extended Detention <sup>1, 5</sup>	24 hours



**Table 4b Infiltration Post-Construction Practices with Maximum Drain Times**

Infiltration Practices	Maximum Drain Time of WQv
Bioretention Area/Cell <sup>1,2</sup>	24 hours
Infiltration Basin <sup>2</sup>	24 hours
Infiltration Trench <sup>3</sup>	48 hours
Permeable Pavement – Infiltration <sup>3</sup>	48 hours
Underground Storage – Infiltration <sup>3,4</sup>	48 hours





# 2018 - Construction General Permit Changes



## Runoff Reduction Practices

The WQv can be reduced by incorporating runoff reducing practices into the design of the site's drainage system.

1. Bioretention
2. Infiltration basin/trench
3. Permeable pavement with infiltration
4. Underground storage with infiltration
5. Grass swale
6. Sheet flow to filter strip
7. Sheet flow to conservation area
8. Impervious surface disconnection
9. Rainwater harvesting
10. Green Roof

# 2018 - Construction General Permit Changes

## Alternative Practices

- Show equivalency to table of acceptable practices
  - (80% TSS and extended detention if not a negligible discharge impact of the discharge).
  - Specifies minimum particle size distribution similar to NJ DEP
  - NJ DEP reviewed testing or Washington State TAPE testing accepted
  - Water quality flow practices must use table of intensities for Tc less than 60 minutes.



# Ohio's April, 2018 - Construction General Permit

## 1. Erosion and Sediment Controls

- A. 12" minimum size sediment barriers in place of silt fence
- B. Sediment Traps & Basins – for concentrated flow; basins detain for 48 hours

## 2. Post-Construction SW

- A. Standard table of practices (4a & 4b) for all disturbed areas  $\geq 2$  ac
- B. Changes to the WQv Calculation:
  - i. Volumetric runoff coefficient  $R_v = 0.05 + 0.9i$
  - ii. Precipitation (P) = 0.9 inches
- C. Use of runoff reducing practices can be used to reduce the WQv
- D. Equation for previous development & new development on a parcel
- E. Alternative practices: testing, particle size distribution and WQF



# Construction General Permit

Find the permit at:

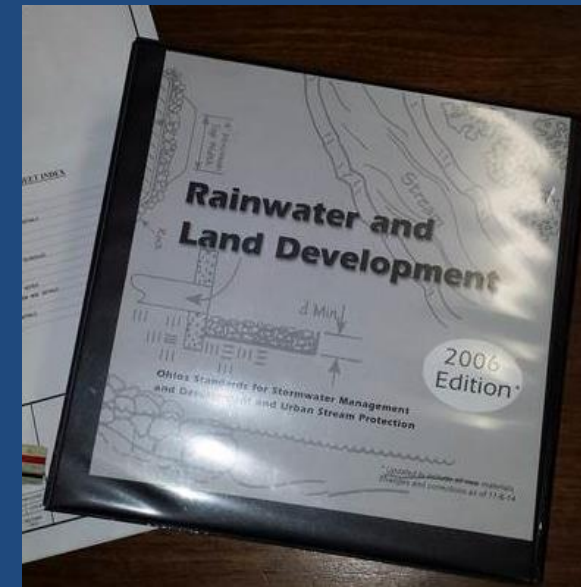
[http://www.epa.ohio.gov/dsw/permits/GP\\_ConstructionSiteStormWater.aspx](http://www.epa.ohio.gov/dsw/permits/GP_ConstructionSiteStormWater.aspx)

*Search for "Ohio EPA Construction General Permit"*

Rainwater and Land Development manual is being updated:

[http://epa.ohio.gov/dsw/storm/technical\\_guidance.aspx](http://epa.ohio.gov/dsw/storm/technical_guidance.aspx)

- Adapted Chapter 2 (Post-Construction Practices)
- Provisional practices



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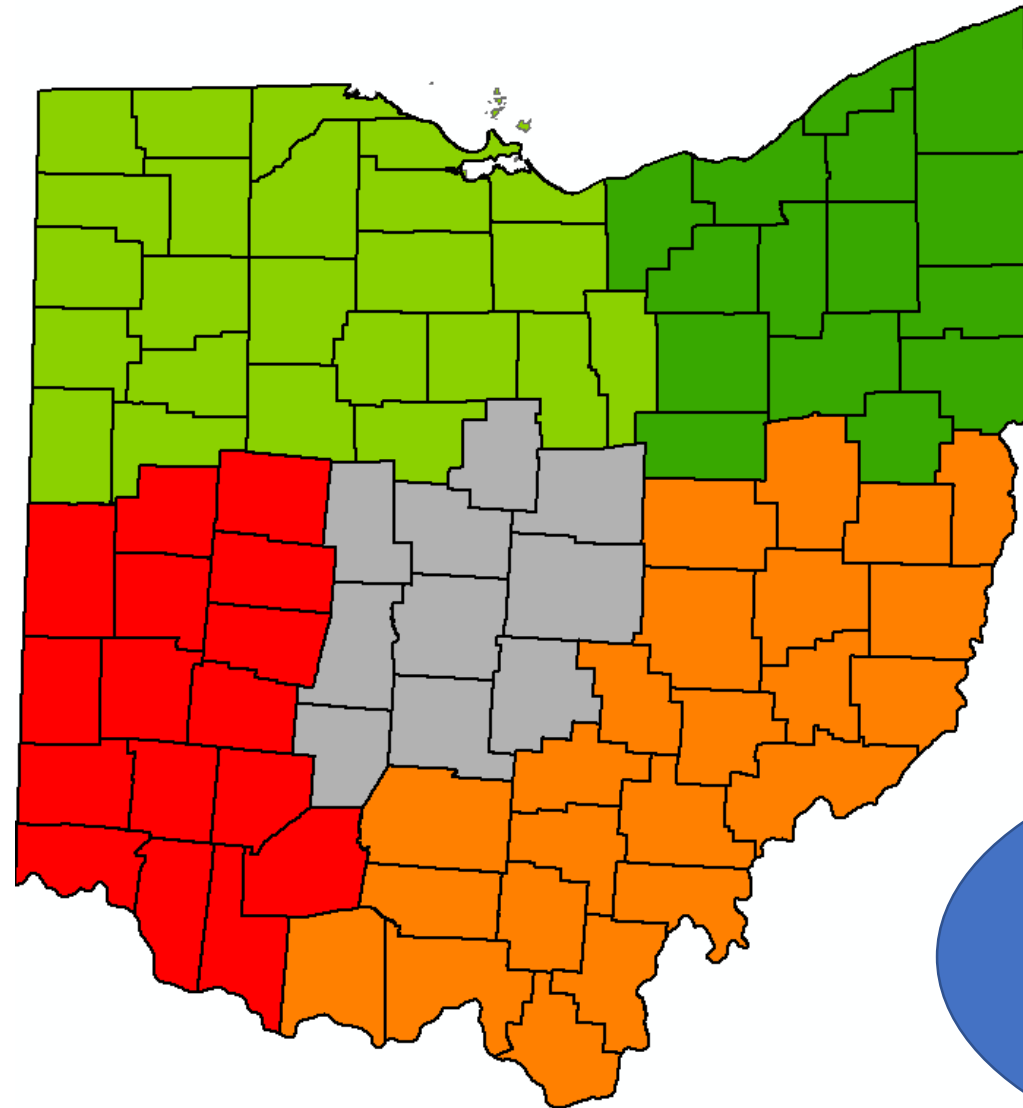
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