



SL 2013-82 (H480) requirements

DENR shall convene stakeholders to:

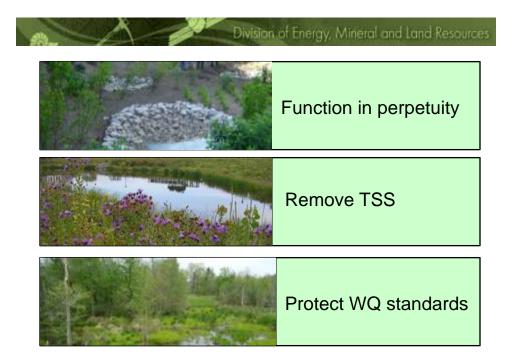
- 1. Develop MDC that encompass all requirements for BMPs. Deadline for DENR to submit to ERC: Feb. 1, 2015.
- Develop a fast-track permitting process no technical review when all BMPs comply with all MDC & the permit application is prepared by a qualified individual. Deadline for rule adoption: July 1, 2016.



Stakeholders represented:

Engineering/design community (8) Home Builder's Association (1) Construction (1) Local government (4) Environmental Group (2) Landscape Architect (1) Academia (2) Soil Scientist (1) DOT (1) DWR & DEMLR (3)





Nutrient Design Criteria

Design criteria that increase the Total Nitrogen (TN) and Total Phosphorus (TP) pollutant removal rates





Temperature Design Recommendation

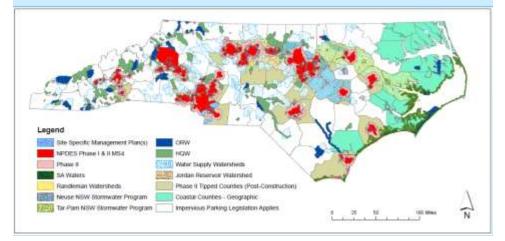
Voluntary design recommendations to optimize the device's effectiveness in reducing SW temperature.



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MDC apply to all measures regardless of:

Geographical location, stormwater program or fast-track or regular review process.

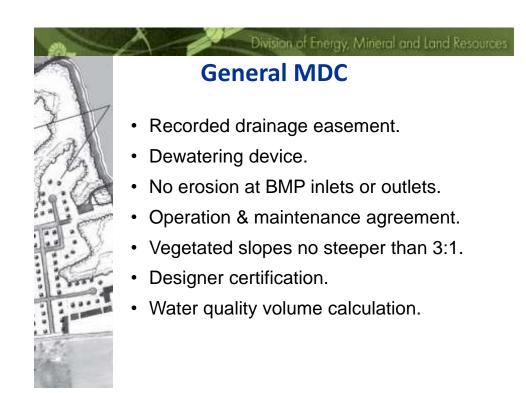


MDC Team process since March 2014:

- 1. Team selects our *Practice of the Month*
- 2. DEMLR staff list all *Potential MDC* based on 2H .1000 rules and the BMP Manual (~25-40)
- Team debates merit & wording of each potential MDC and creates updated MDC list for the practice (~7-15)

Completed: Wet ponds, wetlands, infiltration, bioretention, sand filters & level spreader-filter strips







Which one of these is STILL a wet pond MDC?

- a. The permanent pool must be within 6" of the SHWT or a liner shall be installed.
- b. The SHWT must be determined for every wet pond.
- c. The vegetated shelf must be 10 feet wide.
- d. The forebay must be approximately 20% of the total volume of the pond.
- e. The SA/DA tables are required.



The permanent pool must be within 6" of the SHWT or a liner shall be installed.

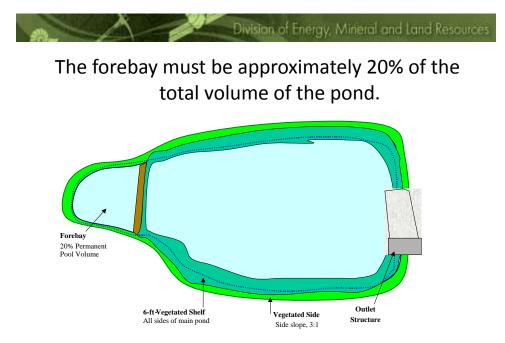


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The vegetated shelf must be 10 feet wide.





The SA/DA tables must be used for sizing.

Option: Hydraulic Retention Time (HRT) method

Permanent Pool Volume, V_{pp}:

$$V_{pp} = \frac{HRT - T_{dd}}{HRT} * WQV$$

Where: V_{pp} =Permanent pool volume (cu ft) T_{dd} =Drawdown time (days)HRT=14 days (hydraulic residence time)WQV=Water quality volume (cu ft)



Which one of these is STILL an infiltration MDC?

- a. Only the design storm may be conveyed to an infiltration system.
- b. Pre-treatment must be provided to prevent clogging.
- c. The maximum drainage area for an inlet to an infiltration system is 2 acre-inches.
- d. A 4-inch layer of washed sand shall be provided at the bottom of the infiltration system.





Pre-treatment must be provided to prevent clogging.



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The maximum drainage area for an inlet to an infiltration system is 2 acre-inches.





A 4-inch layer of washed sand shall be provided at the bottom of the infiltration system.



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Other highlight: infiltration system MDCs

Infiltration systems shall dewater to the bottom of the infiltration device within 72 hours.

A site-specific soil investigation shall establish the hydraulic properties & characteristics of the infiltration site.





After the MDC: Fast-track permitting

The EMC shall adopt a fast-track permitting rule no later than July 1, 2016. The rule shall provide processes for:

- Permit application, review, and determination.
- Ensuring compliance with the MDC.
- Specifying the types of professionals that are qualified to prepare a fast-track permit application.
- Establishing the liability of a professional who prepares a fast-track permit application that fails to comply with the MDCs.

Possible Rule-Making Schedule

The fast-track rule must be adopted no later than May 2016.

Jul 8, 2015	WQC approves rule text
Jul - Oct 2015	DEMLR develops fiscal note
Nov 1, 2015	OSBM certifies fiscal note
Nov 12, 2015	WQC (30 day wavier) / EMC approves rule & fiscal note
Nov 20, 2015	DEMLR's files rule & fiscal note in Register
Dec 15, 2015	Comment period begins (hearing after 12/29)
Feb 16, 2016	Comment period ends
May 2016	WQC (30 day waiver) / EMC adopts rule



Thank you to the MDC Team!

Marc Houle, PE Cameron Moore Ronald Horvath, PE Tim Clinkscales, PE Hunter Freeman, PE Mike Gallant, PE Tom Murray, PE JD Solomon, PE Rob Weintraub Jonathan Bivens, PE Derek Pielech, PE Virginia Spillman, PE Robert Patterson, PE Mike MacIntyre, PE Todd Miller Peter Raab Larry Ragland, RLA, ASLA Bill Hunt, PhD, PE Eban Bean, PhD, PE Brian Lipscomb, PE Joe Hinton, LSS Boyd Devane Bradley Bennett Linda Lewis

