



***Revisions to the  
Delaware Sediment & Stormwater  
Regulations***

***Review of  
Comments Received***

***Regulatory Advisory Committee Meeting***

***April 6, 2016***

***Kent County Administration Building***

# Plan Review Process

- No comments received
- Recommendations from 3/2/16 RAC meeting:
  - Eliminate SAR
  - Keep talking points from SAR as part of Project Application Meeting
  - Have consultant prepare meeting minutes

# Stormwater Assessment Study Checklist

- Minor Comments from Delegated Agencies only
  - Expand narrative
  - Show existing drainage features

Office Use Only	Date Received: _____	
Submittal Complete: Yes / No	Reviewer Initials: _____	
Meeting date/time: _____	DeIDOT Attendance Required? Yes / No	
Application Number: _____		

**Stormwater Assessment Study (SAS) Checklist**

Project Name: \_\_\_\_\_

Owner/Developer Name: \_\_\_\_\_

Contact Person: \_\_\_\_\_

Owner/Developer Phone: \_\_\_\_\_ Owner/Developer e-mail: \_\_\_\_\_

Consultant Name: \_\_\_\_\_

Contact Person: \_\_\_\_\_

Consultant Phone: \_\_\_\_\_ Consultant e-mail: \_\_\_\_\_

**A. Documents**  
 Items should be arranged in the following order:

- This Completed Stormwater Assessment Study (SAS) Checklist
- Brief narrative to include the following:
  - Project type/description
  - Description of soil limitations and how they relate to BMP selection
  - Applicable criteria if the site is in an area served by Watershed Master Plan
  - Impacts to tax ditch watershed or ROW
  - Description of existing site conditions and proposed conditions including information on downstream conveyance and Points of Analysis (POAs)
  - Identify and describe the condition of existing drainage structures and features
  - Provide photographs of structures / channels / outfalls / POAs
- Feedback from DeIDOT Maintenance regarding drainage concerns (if relevant). Consultant will contact DeIDOT to determine if there are any known drainage problems. Provide Parcel ID number and a description of the project location, from the nearest intersection. DeIDOT will respond with any known drainage and flooding problems.
  - New Castle County – (302) 326-4523
  - Kent County – (302) 769-2424
  - Sussex County – (302) 853-1540

**B. Existing Hydrology Mapping**  
 Submit an existing drainage features map based on existing LIDAR information showing:

- on-site subareas
- off-site subareas
- site points of analysis

**D. On-Line Background Information**

- Stormwater Assessment Study GIS Mapping

Provide maps from the following SAS GIS Mapping application link:  
<http://dnvrecgis.maps.arcgis.com/apps/OnePageBasicViewer/index.html?appid=f48353d893334c6091560a8b32332167>

03/13/2014 3.02.1.1-1

**Comment [N1]:** Would like to have a space added to the header for the local jurisdiction identifying number.

**Comment [N2]:** Would like to have the narrative expanded to include discussion regarding the applicable sections for treating the Agreement (e.g. bio-retention).

**Comment [N3]:** Would like to have text added for clarification.

**Comment [N4]:** Change to a "C"

# Technical Subcommittee Recommendations

- NRCS Method, adjusting Ia/S Ratio
- Extended ED >48 hours
  - Option for all sites?
  - Vegetation impacts; mosquito breeding
  - Method to show compliance

# Technical Subcommittee Recommendations

- Average groundwater vs. seasonal high
  - Acceptable on case-by-case basis
  - Current BMP design requirements onerous
- Volumetric Equivalents for WQ BMPs
  - TMDL compliance

# Redevelopment

- Brownfield
- Traditional Redevelopment
  - Post 1991 Redevelopment
  - Pre 1991 Redevelopment

# Brownfield Redevelopment

- Address case-by-case
- What is incentive for vegetated sites?
- “Automatic waiver” → “Compliance”

# Traditional Redevelopment

- Look at known flooding issues and allow no shifting of drainage patterns
- 1-ac threshold too high; not relevant for urban areas
- Alternative ranges proposed for urban
- Offset MEP trigger (\$10/cf) and fee-in-lieu (\$18/cf) too low in urban redevelopment

# Post 1991 Redevelopment

- Specify runoff flows to existing BMP
- Need as-built of BMP if none on file

# Traditional Redevelopment

## DSSR 5.6.3.2

All remaining redeveloped areas within the project limit of disturbance shall employ runoff reduction practices to achieve a ~~30%~~ 15% reduction in the effective imperviousness based on the existing condition.

# Pre 1991 Redevelopment

- Proposal is complicated, confusing
- 15% reduction of effective impervious