

MANAGED RELEASE CONCEPT (MRC) DESIGN SUMMARY

Complete One Design Summary Sheet for Each BMP Designed for MRC

GENERAL INFORMATION

Applicant Name: _____ Project Name: _____
 Applicant Address: _____ Municipality: _____
 City, State, Zip: _____ County: _____
 Permit Type: NPDES PAG-02 NPDES IP ESCGP ESP

	Pre-Development	Post-Development	Change
Impervious Area (acres):			

MRC BMP INFORMATION

MRC BMP Type: _____ Stormwater BMP Manual Section: _____

Will the BMP Include Vegetation? Yes No

If Yes, Identify Proposed Vegetation: _____

For Non-Vegetated BMPs Will There Be Pre- or Post-Treatment? Yes (Pre-) Yes (Post-) No

If Yes, Identify Proposed Pre- or Post-Treatment: _____

Name of Surface Water to Receive MRC BMP Discharges: _____

Designated Use of Surface Water: _____ Existing Use of Surface Water (if different): _____

Is the Surface Water Impaired? Yes No

If Yes, Identify Cause(s): _____

Will the BMP Have a Liner? Yes No

If Yes, Identify the Type or Liner Material: _____

BMP Media Description: _____

Are Any Deviations from MRC Design Standards Proposed? Yes No

If Yes, Identify Deviations: _____

MRC BMP DESIGN VALUES AND STANDARDS

Parameter	Design Value	Design Standard
Contributing Impervious Area to BMP (acres)		
MRC BMP Release Rate (cfs)		No greater than 0.01 cfs / acre of contributing impervious
BMP Footprint Area (ft ²)		
Total Drainage Area to BMP (acres)		
Bottom BMP Elevation (ft)		
Ponding Depth (ft)		

MRC BMP Design Summary

Parameter	Design Value	Design Standard
Overflow Bypass Elevation (ft)		
Media Depth (ft)		2 ft (min) – 4 ft (max)
Media Void Space (%)		
Internal Water Storage (IWS) Depth (ft)		
Top of IWS Elevation (ft)		
Underdrain Pipe Diameter (in)		
Underdrain Orifice Diameter (in)		
Underdrain Outlet Elevation (ft)		
IWS Used for Routing (%)		50% max
Separation Distance (Groundwater) (ft)		1 ft (min) (2 ft recommended)
Infiltration Rate (in/hr)		
1-Year/24-Hour Pre -Development Peak Rate (cfs)		
2-Year/24-Hour Post -Development Peak Rate (cfs)		1-Year/24-Hour Pre-Development Peak Rate (or per approved Act 167 Plan)
10-Year/24-Hour Post -Development Peak Rate (cfs)		10-Year/24-Hour Pre-Development Peak Rate
50-Year/24-Hour Post -Development Peak Rate (cfs)		50-Year/24-Hour Pre-Development Peak Rate
100-Year/24-Hour Post -Development Peak Rate (cfs)		100-Year/24-Hour Pre-Development Peak Rate
a. Total 2-Year/24-Hour Runoff Volume Managed by BMP (cf)		Net Change (Δ 2 volume)
b. Total 2-Year/24-Hour Runoff Volume Permanently Removed (cf)		
c. 2-Year/24-Hour Volume Managed Through Release (cf)		Difference of a. and b.
Ponding Time @ 2-Year/24-Hour Storm (hrs)		72 hrs max
Ponding Time @ 10-Year/24-Hour Storm (hrs)		72 hrs max
Ponding Time @ 50-Year/24-Hour Storm (hrs)		72 hrs max
Ponding Time @ 100-Year/24-Hour Storm (hrs)		72 hrs max

Licensed P.E. Name

Licensed P.E. Signature

License No.

Date

*Licensed
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