

DCR Stormwater Design Checklist

This checklist outlines stormwater treatment requirements for DCR projects. **Designers should reference the DCR Stormwater Handbook for definitions of items below, additional details on the stormwater requirements, and to follow the steps detailed in the Handbook**. Designers shall submit this checklist to DCR to document that the project complies with the requirements during the design process. Enter project specific information to the green highlighted cells and the remaining cells will calculate based on those inputs. Grey cells do not need values based on input in other cells.

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	Project Inf	ormation	
Project Name:			
Project Location:			
Designer:			
Checklist Completed By:			
Total Project Area:		square feet	
Existing Impervious Cover:		square feet	
Proposed Impervious Cover:		square feet	
New Impervious Cover:		square feet	
Project Type (select from dropdown list):		_	
Is the project (or a portion of the project) within			
MS4 Jurisdiction as identified in the DCR			
Stewardship Map?		-	
Is the project (or a portion of the project) within			
WPA Jurisdiction?		-	
Is the project (or a portion of the project) within a			
DCR Priority Watershed as identified in the DCR			
Stewardship Map?			
If within a DCR Priority Watershed, list information			
from DCR Stewardship Map - Priority Watershed			
Layer regarding Coverage, WBID, TMDL ID, and			
Pollutant of Concern for each of the applicable			
Priority Watershed:			
	Coverage, WBID, TMDL ID, Pollutants of Concern - Watershed 1 (as applicable)	Coverage, WBID, TMDL ID, Pollutants of Concern - Watershed 2 (as applicable)	Coverage, WBID, TMDL ID, Pollutants of Concern - Watershed 3 (as applicable)
	Project Stormwat		
Statewide (MS4)	rioject Stormwat	er Requirements	
DCR is implementing the MS4 water quality criteria	statewide for Maintonance and In	provomant & Capital Project types If	a project is outside the MCA regulation area
and can not meet the water quality criteria, the des	-		
Step 1: Is the Project Site categorized as New or Re		ns)	
MS4 Development Category Definition:			
Treatment Requirement:	#N/A		
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Step 2a: Identify MS4 Water Quality Treatment Re			
Water quality treatment requirements may be met			
1) Installing SCMs that together meet the			
2) Retaining MS4 Runoff Volume:	#N/A	cubic feet	
WPA Jurisdiction			
The DCR Stormwater Handbook focuses on the diffe	rances between the MSA and M/DA	water quality criteria and therefore a	age into datail on MaccDER's Standard 4
(water quality standard) for WPA compliance. Howe			
reviewed when designing the system. The designer s Standards not addressed in the DCR Handbook.	should johow the MassDer guidant	te provided in the Massachusetts stori	nwater Handbook jor the Stormwater
			and the standard strategies of the standard strategies of the stra
MassDEP Stormwater Standard 4: Stormwa	iter management systems shall be	designed to remove 80% of the average	ge annual post-construction load of Total
Suspended Solids (TSS).			
Step 2b: Identify WPA Water Quality Treatment Re	quirements		
Is the project site within WPA jurisdiction?			
Instructions:	#N/A		
Step 3: Setting the WPA Water Quality Treatment	•		
Does the Project Site include one or more of the fol		-	
LUHPPLs; Zone II or Interim Wellhead Protection Ar		il Area (ORWs, special resource	
waters, bathing beaches, shellfish growing areas, co	ld-water fisheries)		
How much of the Project Site's impervious area is ca	•	•	
Deal Dealer and the second	New Development	Redevelopment	
Post Development Impervious Area within Higher			5 .
Treatment Situations			square feet

square feet



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Step 4: Calculate WPA Water Quality Volume (WQ)	/)		
New Development WQV	-	cubic feet	
Redevelopment WQV		cubic feet	
Total WQV	-	cubic feet	
Review Requirements			
Step 5: Review Water Quality Treatment Requirem	ents		
Regulation	Requirement		
MS4: Water Quality Treatment		N/A	
and/or MS4: Retention		cubic feet retention	
WPA	#N/A	cubic feet WQV	
Step 6: Determine if Project Site is in a DCR			
Priority Watershed per Stewardship Map:			
	Project Stormv		
The design elements noted below follow the DCR Sto	rmwater Handbook guidance. Des	igners should reference the handbook	while completing this checklist.
Low Impact Development (Ch. 5)			
Which Low Impact Development (LID) measures we	re incorporated? Add notes descri	bing how each measure was incorpor-	ated into the project or why it was not.
LID Measure	Incorporated Into Design?	Notes	
Preservation and enhancement of vegetation			
reservation and enhancement of vegetation			
Reduction of impervious cover			
Disconnection of pavement			
Maintenance of predevelopment patterns			
Steps 7 and 8: Select SCMs and Calculate Desig	n Storage Volume		
Proposed Structural Controls: Add a row to the table		d. Numbers should align with the SCM	1 number on the planset.
Grey text in table is an example of how to populate			
SCM Number	SCM Type	Pretreatment Proposed?	Design Storage Volume (cu. ft.)
1	Infiltration Basin/Swale	Yes	3,500
2	Leaching Catch Basins	Yes	450
		Tatal Site DSV	2.050
		Total Site DSV:	3,950
Step 9: Are Pollutant Reduction and WQV Crite	ria Met?		
Available tools with EPA SCM Performance Curv			
	Stormwater Tools in New England	US EPA	
MassDOT Water Quality Data Form (WQDF) SCM			
Performance Curves Tab	Stormwater Management Unit M		
TSS % reduction	MS4 Required	WPA Required	Provided (BATT Tool, EPA Curves)
TP % reduction	#N/A #N/A	N/A N/A	
Water Quality Volume (cubic feet)	#N/A	N/A	3,950
			0,000
Step 10: Priority Watersheds			
If the Project Site is within a Priority Watershed,			
describe how treatment is being maximized for pollutant of concern removal.			



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Additional Stormwater Considerations (Ch. 8)				
Does the project propose isolating DCR's				
stormwater drainage system from any				
interconnecting municipal drainage systems? If				
yes, explain how. If no, describe the limiting				
constraints.				
What other stormwater design measures				
discussed in Chapter 8 were relevant for this				
project and incorporated into the design?				
	the proposed construction plans to DCR Stormwater Group. Designers should work with the DCR Stormwater Group to will be used to document anticipated treatment achieved from the project in DCR's internal pollutant reduction			
DCR Review				
This section should be left blank by the Designer. D	CR will populate as staff reviews the checklist.			
DCR Reviewer:				
Review Date:				
Review Date:				
Review Date:				
Review Date:				