CTDOT MS4 Project Design
Maximum Extent Practicable (MEP) Worksheet

Section 1: Project Information

Project Number:	
Title/Description:	
Location:	

Section 2: Existing Conditions

EC1	Total Project Area			_____ acres	
EC2	Pre-construction Total Impervious Area			_____ acres	
EC3	Pre-Construction Disconnected Impervious Area			_____ acres	
EC4	Pre-construction DCIA for the Project *(EC2 minus EC3)*			_____ acres	_____% (EC4/EC1)
EC5	Soil Infiltration Potential	Data Source: ☐ Existing Report / Soils Map ☐ Field Verified		☐ Good/Fair ☐ Poor	☐ Mixed
EC6	Depth to Maximum Groundwater		☐ TBD	_____ to _____ ft below grade	
EC7	Depth to Bedrock		☐ TBD	_____ to _____ ft below grade	
EC8	Aquifer Protection Area? (from PNDF)			☐ Yes	☐ No
EC9	MS4 Priority Area? (from PNDF)			☐ Yes (See Below)	☐ No

Check All That Apply ☐ Urbanized Area ☐ DCIA >11% ☐ Impaired Waterbody (See Below)

Select All Impairments That Apply

EC10	Contamination known or suspected to be present? (From Environmental Compliance)	☐ Yes	☐ No
EC11	Adjoining DOT ROW beyond project limits available for stormwater quality management	_____ acres	

NOTES:

Worksheet users should refer to the current *CT DOT MS4 Project Design MEP Worksheet V4 Instructions*

Reference the CT DEEP Stormwater Quality Manual (SWQM) for design and the New England Stormwater Retrofit Manual for Crediting

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Section 3: Designed Conditions

Section 3A: Document Water Quality Volume (WQV) Retained and/or Treated (ac-ft)

	Water Quality Volume Documentation		30% Design		60% Design	90% Design	FDP
DC1	WQV design goal	☐Full ☐½-WQV *(Full = EC4 % ≤ 40%)*	ac-ft	☐ TBD	ac-ft	ac-ft	ac-ft
DC2	WQV goal **retained** (refer to page 3)		ac-ft		ac-ft	ac-ft	ac-ft
DC3	WQV goal ***treated*** (refer to page 3)		ac-ft		ac-ft	ac-ft	ac-ft

Did the Project Retain and/or Treat the Entire WQV Goal? ☐Yes ☐No

Section 3B: Document Changes in Directly Connected Impervious Area (DCIA) Pre to Post Construction (acres)

	DCIA Documentation	30% Design		60% Design	90% Design	FDP
DC4	Post-construction Total Impervious Area	ac.	☐ TBD	ac.	ac.	ac.
DC5	Post-construction DCIA before **new** BMPs	ac.	☐ TBD	ac.	ac.	ac.
DC6	DCIA Disconnected by new BMPs (from Pg 3)	ac.	☐ TBD	ac.	ac.	ac.
DC7	Final Post-construction DCIA *(DC5 minus DC6)*	ac.	☐ TBD	ac.	ac.	ac.
DC8	Pre-construction DCIA (refer to EC4 from Pg 1)	ac.		ac.	ac.	ac.
DC9	Change in DCIA from pre- to post-construction *(DC7 minus DC8) Can be positive (DCIA gained) or negative (DCIA lost)*	ac.	☐ TBD	ac.	ac.	ac.
	Date completed					
	Completed by (initials)					
	Reviewed by (initials)					

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Section 4: Stormwater BMP Selection Summary											
Design Phase ☐30% ☐60% ☐90% ☐FDP	**BMP Type**	**WQV Retained* (ac-ft)**	**WQV Treated* (ac-ft)**	**DCIA Captured by BMP (ac)**	**Runoff Depth from DCIA Captured by BMP (in)**	**HSG Soil Type**	**DCIA Disconnection Credit (%)****	**DCIA Disconnection Credit (ac)**	**(TP) reduction %****	**(TSS) reduction %****	**(TN) reduction %***
BMP Category											
TOTAL		0	0					0			
		To Row DC2	***To Row DC3***					***To Row DC6***			

Describe Site Constraints Limiting BMP Implementation if applicable:

Other Notes:

* List the amount of the WQV the BMP is designed to retain or treat.

** Refer to the CT DEEP Stormwater Quality Manual (SWQM) Stormwater Manual (ct.gov) and New England Stormwater Retrofit Manual Stormwater Retrofit Manual (snepnetwork.org) to determine disconnection and pollutant removal percentages. BMPs should be designed to meet specific TP, TN and TSS pollutant reductions to the maximum extent practicable when the entire WQV cannot be retained. Pollutant Reduction Targets are: New Development TP 60%, TN 40%, TSS 90%. Redevelopment TP 50%, TN, 30% TSS 80%. (Page 48 of the SWQM)