3800-PM-BCW0406b Rev. 12/2019
PCSM Module 2

pennsylvania
DEPARTMENT OF ENVIRONMENTAL
PROTECTION

COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF CLEAN WATER

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) DISCHARGES OF STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITIES POST-CONSTRUCTION STORMWATER MANAGEMENT (PCSM) MODULE 2

Applicant:	Reiteva	, LLG	Project Site Name:	Reiteva Dev	eiopment	
Surface Water	er Name(s): UNT to Pennypack Creek	Surface Water Use(s	TSF, MF		
		PCSM PL	AN INFORMATION			
1. Identify a	all structui	ral and non-structural PCSM BMPs	that have been selected	and provide th	e information red	quested.
Discharge Point(s)	BMP ID	BMP Name	BMP Manual	Latitude	Longitude	DA Treated (ac)
		N/A - All PCSM BMPs are propos in the subsequent permitting pha				
Undetained	Areas:	138 acre(s)				
☐ The Proj	ect Qualif	ies as a Site Restoration Project (25	5 Pa. Code §102.8(n))			
		uence of PCSM BMP implemental critical stages of PCSM BMP instal		h disturbance	activities and a	schedule of
		nstruction is limited to the spreac II BMPs will be designed and insa				

3800-PM-BCW0406b Rev. 12/2019 PCSM Module 2

9.

3. ☑ Plan drawings have been developed for the project and will be available on-site. 4. Plan drawings have been developed for the project and are attached to the NOI/application. Recycling and proper disposal of materials associated with PCSM BMPs are addressed as part of long-term operation 5. and maintenance of the PCSM BMPs. Identify naturally occurring geologic formations or soil conditions that may have the potential to cause pollution after earth disturbance activities are completed and PCSM BMPs are operational and the applicant's plan to avoid or minimize potential pollution and its impacts. Based on the site's due diligence, a portion of this site's soils are considered contaminated. Specific construction plans and systems are being implemented to avoid or minimize the potential for these soils to cause pollution during or after earth disturbance activities are completed and the PCSM BMPs are operational. Please refer to the environmental plan, sheet 2, and the associated soil management plan for procedures to manage contaminated or potentially contaminated materials during this construction phase. Identify whether the potential exists for thermal impacts to surface waters from post-construction stormwater. If such potential exists, identify BMPs that will be implemented to avoid, minimize, or mitigate potential thermal impacts. N/A - no discharges are proposed in the Phase 1, E&S phase. This will be addressed in Phase 2. 8. The PCSM Plan has been planned, designed, and will be implemented to be consistent with the E&S Plan.

A pre-development site characterization has been performed.

	N/A - This will be addressed in Phase 2										ET Credit (CF)					
	N/A - This will I Phase 2	ears.									Inf. Credit (CF)					
	Discharge Point(s):	The design standard is based on volume management requirements in an Act 167 Plan approved by DEP within the past five years.	orm.								Storage Vol. (CF)					
OLUME	Discha	ed by DEP withi	The design standard is based on managing the net change for storms up to and including the 2-year/24-hour storm.				Calculations attached			☐ Calculations attached	Media Depth (ft)					
NOFF VC		an approv	ding the 2				⊠ Calcu	⊠ Calcu		☐ Calcu	Veg?					
LYSIS – RU		an Act 167 Pl	o to and inclu		, 10	tation data:	R	S CF	CF	lested.	Inf. Period (hrs)					
STORMWATER ANALYSIS - RUNOFF VOLUME		quirements in a	e for storms up		eet is attached	Source of precipitation data:	679,435	581,525	-97,910	formation requ	Inf. Rate (in/hr)					
STORM	¥	ınagement red	the net change		olume Worksh	inches Sol	onditions:	onditions:	ion Volumes):	provide the inf	Inf. Area (SF)					
	UNT to Pennypack Creek	d on volume ma	d on managing	An alternative design standard is being used.	A printout of DEP's PCSM Spreadsheet - Volume Worksheet is attached.	.⊑	Stormwater Runoff Volume, Pre-Construction Conditions:	Stormwater Runoff Volume, Post-Construction Conditions:	Net Change (Post-Construction – Pre-Construction Volumes):	Identify all selected structural PCSM BMPs and provide the information requested.	Vol. Routed to BMP (CF)					
	UNT to P	ırd is base	ırd is base	ign standa	s PCSM S	Event:	lume, Pre-	lume, Pos	- struction	uctural PC	Series					
	er Name:	design standa	design standa	ternative desi	ntout of DEP's	2-Year/24-Hour Storm Event:	ter Runoff Vo	ter Runoff Vo	nge (Post-Cor	III selected str	BMP ID					
	Surface Water Name:	1. The c	2. 🏻 The c	3. 🗌 An al	4. 🛭 A priir	5. 2-Year/2 ²	6. Stormwa	7. Stormwa	8. Net Char	9. Identify a	DP No.					

Total Infiltration & ET Credits (CF):

Non-Structural BMP Volume Credits (CF) (Attach Calculations):

Managed Release Credits (CF) (Attach MRC Design Summary):

Volume Required to Reduce/Manage (CF):

	INFILTRATION INFORMATION									
BN	BMP ID: N/A - This will be addressed in Phase 2	Soil/geologic test results are attached.								
1.	No. of infiltration tests completed:									
2.	2. Method(s) used for infiltration testing:									
3.	3. Test Pit Identifiers (from PCSM Plan Drawings):									
4.	4. Avg Infiltration Rate: in/hr 5. FOS:	:1								
6.	6. Infiltration rate used for design: in/hr									
7.	7. Separation distance between the BMP bottom and bedrock:	feet								
8.	3. Separation distance between the BMP bottom and seasonal high-wa	ater table: feet								
9.	9. Comments:									
BN	BMP ID:	Soil/geologic test results are attached.								
1.	No. of infiltration tests completed:									
2.	2. Method(s) used for infiltration testing:									
3.	3. Test Pit Identifiers (from PCSM Plan Drawings):									
4.	4. Avg Infiltration Rate: in/hr 5. FOS:	: 1								
6.	6. Infiltration Rate Used for Design: in/hr									
7.	7. Separation distance between the BMP bottom and bedrock:	feet								
8.	3. Separation distance between the BMP bottom and seasonal high-wa	ater table: feet								
9.	9. Comments:									
BN	BMP ID:	Soil/geologic test results are attached.								
1.	No. of infiltration tests completed:									
2.	2. Method(s) used for infiltration testing:									
3.	3. Test Pit Identifiers (from PCSM Plan Drawings):									
4.	4. Avg Infiltration Rate: in/hr 5. FOS:	: 1								
6.	6. Infiltration Rate Used for Design: in/hr									
7.	7. Separation distance between the BMP bottom and bedrock:	feet								
8.	3. Separation distance between the BMP bottom and seasonal high-wa	ater table: feet								
9.	9. Comments:									

STORMWATER ANALYSIS – PEAK RATE													
Surface Water Name:	UNT to Pe		Disc		N/A - This will be addresed in Phase 2								
1. The design sta	. The design standard is based on rate requirements in an Act 167 Plan approved by DEP within the past five years.												
2. The design sta	2. 🔲 The design standard is based on managing the net change for 2-, 10-, 50-, and 100-year/24-hour storms.												
3.	An alternative design standard is being used.												
4. 🛭 A printout of D	☑ A printout of DEP's PCSM Spreadsheet – Rate Worksheet is attached.												
5. Alternative rate													
6. Identify precipitation	S. Identify precipitation amounts. Source of precipitation data: PWD Requirements												
2-Year/24-Hour St	orm: 3.32	2		10-Yea	r/24-Hour St	orm	4.95						
50-Year/24-Hour S	Storm: 7.00)		100-Ye	ar/24-Hour S	Storm	8.04						
7. Report peak disch	arge rates, pr	e- and post-	construction	(without BM	Ps), based o	on a time of	concen	tration anal	/sis.				
Design Storm	Pre-Cons	truction Pea	ak Rate	Post-Con	struction Po	eak Rate	Difference (cfs)						
2-Year/24-Hour		171.27			150.04		-21.23						
10-Year/24-Hour		311.70			298.93		-12.77						
50-Year/24-Hour		495.99			475.14		-20.85						
100-Year/24-Hour	100-Year/24-Hour 590.47					570.31 -20.16							
8. Identify all BMPs u	sed to mitigat	e peak rate	differences	and provide	the requeste	d information	on.						
BMP ID			Inflow to	BMP (cfs)		0	utflow from BMP (cfs)						
DIVIP ID	2-Yr 10-Yr			50-Yr	2-Yr	10-Yı	r 50-Yı	100-Yr					
N/A													
9. Report peak rates for pre-construction and post-construction with BMPs and identify the differences.													
Design Storm	Design Storm Pre-Construction Peak Rate (cfs)				struction Pe th BMPs) (ct		Difference (cfs)						
2-Year/24-Hour		171.27			150.04	-21.23							
10-Year/24-Hour		311.70					-12.77						
50-Year/24-Hour		495.99		475.14				-20.85					
100-Year/24-Hour		590.47			570.31		-20.16						

STORMWATER ANALYSIS – WATER QUALITY									
☐ A printout of DEP's PCSM Spreadsheet – Quality Worksheet is attached for all surface waters receiving discharges.									
LONG-TERM O&M									
Describe the long-term operation and maintenance (O&M) requirements for each selected PCSM BMP.									
BMP ID	O&M Requirements								
	N/A - This will be addressed in Phase 2.								
	DCSM DI	AN DEVELOPER							
PCSM PLAN DEVELOPER ☑ I am trained and experienced in PCSM methods. ☑ I am a licensed professional.									
	led and experienced in F Colvi methods.		seu professional.						
Name:	Cornelius Brown, P.E.	Title:	Principal						
Company:	Bohler Engineering	Phone No.:	267-402-3400						
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License Type	e: Professional Engineer	Exp. Date							
	Corneline Brown								
-		March	30, 2020						
	PCSM Plan Developer Signature	Date							

