

3. <input type="checkbox"/> Plan drawings have been developed for the project and will be available on-site.
4. <input checked="" type="checkbox"/> Plan drawings have been developed for the project and are attached to the NOI/application.
5. <input checked="" type="checkbox"/> Recycling and proper disposal of materials associated with PCSM BMPs are addressed as part of long-term operation and maintenance of the PCSM BMPs.
6. 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. While minerals may be present at this location, geologic formations present are not expected to be exposed or expected to impact the receiving streams' water quality. The soil conditions present on-site are not considered acid producing soil, to further justify no expected impact to the water quality of the receiving streams. Environmental Due Dilligence (Clean Fill) notes can be found under the General Notes shown on the cover sheet of the PCSM Plans.
7. 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. Potential thermal impacts associated with the proposed site improvements have been minimized to the maximum extent practicable. The proposed detention basins will allow storage of the difference in runoff from pre- to post-development. The runoff leaving the basin is proposed to discharge at a slow rate, which further promotes water cooling. Permanent seed and stabilization shall be applied immediately after final grading of disturbed areas. The site has been designed to be compact and utilize the least amount of impervious surface that is practical, while constructing a safe and functional site. In addition, the stormwater runoff will have to travel several hundred feet before it enters the receiving water, giving extra time to lower the water temperature.
8. <input checked="" type="checkbox"/> The PCSM Plan has been planned, designed, and will be implemented to be consistent with the E&S Plan.
9. <input checked="" type="checkbox"/> A pre-development site characterization has been performed.

STORMWATER ANALYSIS – RUNOFF VOLUME

Surface Water Name: Cherith Brook via existing swale

Discharge Point(s): 001

1. The design standard is based on volume management requirements in an Act 167 Plan approved by DEP within the past five years.
2. The design standard is based on managing the net change for storms up to and including the 2-year/24-hour storm.
3. An alternative design standard is being used.
4. A printout of DEP's PCSM Spreadsheet – Volume Worksheet is attached.
5. 2-Year/24-Hour Storm Event: **3.23** inches Source of precipitation data: **NOAA**
6. Stormwater Runoff Volume, Pre-Construction Conditions: CF Calculations attached
7. Stormwater Runoff Volume, Post-Construction Conditions: CF Calculations attached
8. Net Change (Post-Construction – Pre-Construction Volumes): CF
9. Identify all selected structural PCSM BMPs and provide the information requested. Calculations attached

DP No.	BMP ID	Series	Vol. Routed to BMP (CF)	Inf. Area (SF)	Inf. Rate (in/hr)	Inf. Period (hrs)	Veg?	Media Depth (ft)	Storage Vol. (CF)	Inf. Credit (CF)	ET Credit (CF)
							<input type="checkbox"/>				
							<input type="checkbox"/>				
							<input type="checkbox"/>				
							<input type="checkbox"/>				
							<input type="checkbox"/>				
							<input type="checkbox"/>				
							<input type="checkbox"/>				
							<input type="checkbox"/>				
							<input type="checkbox"/>				
							<input type="checkbox"/>				

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):

Total Credits (CF):

INFILTRATION INFORMATION	
BMP ID:	<input type="checkbox"/> Soil/geologic test results are attached.
1. No. of infiltration tests completed:	5
2. Method(s) used for infiltration testing:	
3. Test Pit Identifiers (from PCSM Plan Drawings):	
4. Avg Infiltration Rate:	in/hr
5. FOS:	: 1
6. Infiltration rate used for design:	in/hr
7. Separation distance between the BMP bottom and bedrock:	feet
8. Separation distance between the BMP bottom and seasonal high-water table:	feet
9. Comments:	
BMP ID:	<input type="checkbox"/> Soil/geologic test results are attached.
1. No. of infiltration tests completed:	
2. Method(s) used for infiltration testing:	
3. Test Pit Identifiers (from PCSM Plan Drawings):	
4. Avg Infiltration Rate:	in/hr
5. FOS:	: 1
6. Infiltration Rate Used for Design:	in/hr
7. Separation distance between the BMP bottom and bedrock:	feet
8. Separation distance between the BMP bottom and seasonal high-water table:	feet
9. Comments:	
BMP ID:	<input type="checkbox"/> Soil/geologic test results are attached.
1. No. of infiltration tests completed:	
2. Method(s) used for infiltration testing:	
3. Test Pit Identifiers (from PCSM Plan Drawings):	
4. Avg Infiltration Rate:	in/hr
5. FOS:	: 1
6. Infiltration Rate Used for Design:	in/hr
7. Separation distance between the BMP bottom and bedrock:	feet
8. Separation distance between the BMP bottom and seasonal high-water table:	feet
9. Comments:	

STORMWATER ANALYSIS – PEAK RATE

Surface Water Name: Cherith Brook via existing swale **Discharge Point(s):** 001

1. The design standard is based on rate requirements in an Act 167 Plan approved by DEP within the past five years.
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 DEP's PCSM Spreadsheet – Rate Worksheet is attached.
5. Alternative rate calculations are attached.

6. Identify precipitation amounts. Source of precipitation data:

2-Year/24-Hour Storm: 10-Year/24-Hour Storm

50-Year/24-Hour Storm: 100-Year/24-Hour Storm

7. Report peak discharge rates, pre- and post-construction (without BMPs), based on a time of concentration analysis.

Design Storm	Pre-Construction Peak Rate (cfs)	Post-Construction Peak Rate (cfs)	Difference (cfs)
2-Year/24-Hour			
10-Year/24-Hour			
50-Year/24-Hour			
100-Year/24-Hour			

8. Identify all BMPs used to mitigate peak rate differences and provide the requested information.

BMP ID	Inflow to BMP (cfs)				Outflow from BMP (cfs)			
	2-Yr	10-Yr	50-Yr	100-Yr	2-Yr	10-Yr	50-Yr	100-Yr

9. Report peak rates for pre-construction and post-construction with BMPs and identify the differences.

Design Storm	Pre-Construction Peak Rate (cfs)	Post-Construction Peak Rate (with BMPs) (cfs)	Difference (cfs)
2-Year/24-Hour			
10-Year/24-Hour			
50-Year/24-Hour			
100-Year/24-Hour			

