

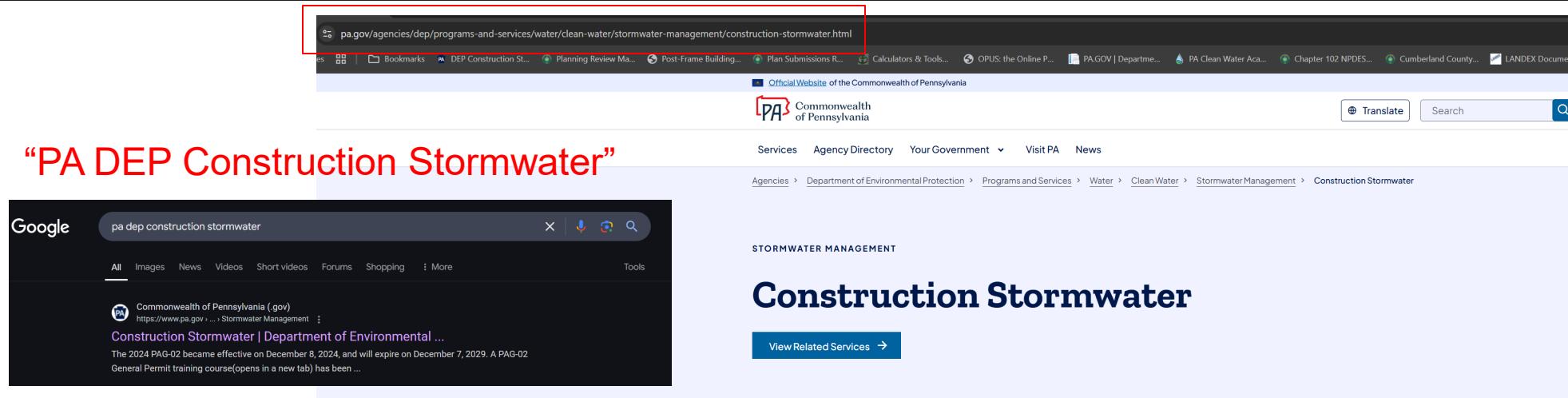


CUMBERLAND COUNTY CONSERVATION DISTRICT

Module 2 & the PCSM Spreadsheet (2025)

Presented by Mike Lubinsky, P.E.

Conserving Natural Resources for Our Future



pa.gov/agencies/dep/programs-and-services/water/clean-water/stormwater-management/construction-stormwater.html

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Agencies > Department of Environmental Protection > Programs and Services > Water > Clean Water > Stormwater Management > Construction Stormwater

Construction Stormwater

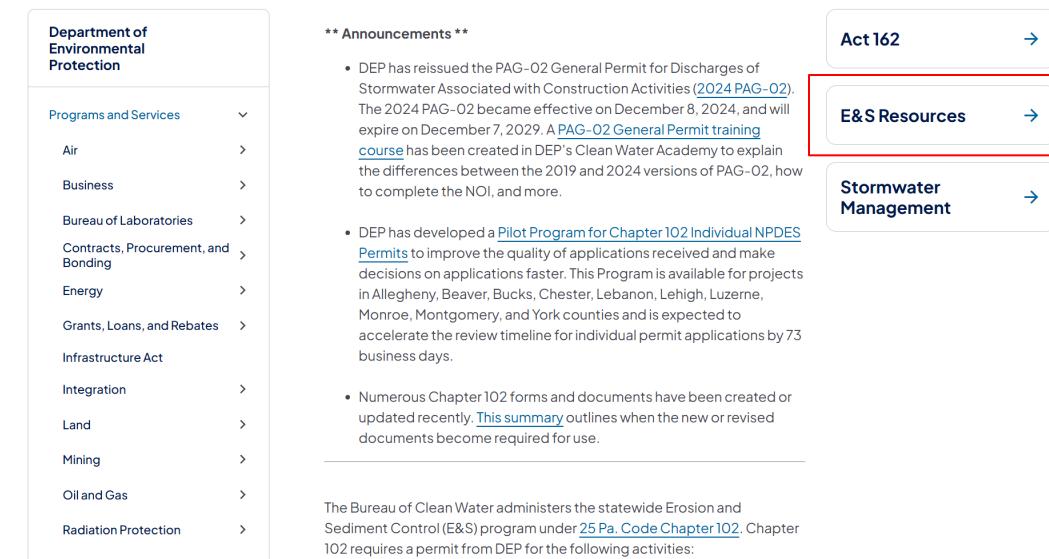
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STORMWATER MANAGEMENT

Commonwealth of Pennsylvania (.gov) https://www.pa.gov... > Stormwater Management

Construction Stormwater | Department of Environmental ...

The 2024 PAG-02 became effective on December 8, 2024, and will expire on December 7, 2029. A PAG-02 General Permit training course(openes in a new tab) has been ...



Department of Environmental Protection

- Programs and Services
- Air
- Business
- Bureau of Laboratories
- Contracts, Procurement, and Bonding
- Energy
- Grants, Loans, and Rebates
- Infrastructure Act
- Integration
- Land
- Mining
- Oil and Gas
- Radiation Protection

** Announcements **

- DEP has reissued the PAG-02 General Permit for Discharges of Stormwater Associated with Construction Activities ([2024 PAG-02](#)). The 2024 PAG-02 became effective on December 8, 2024, and will expire on December 7, 2029. A [PAG-02 General Permit training course](#) has been created in DEP's Clean Water Academy to explain the differences between the 2019 and 2024 versions of PAG-02, how to complete the NOI, and more.
- DEP has developed a [Pilot Program for Chapter 102 Individual NPDES Permits](#) to improve the quality of applications received and make decisions on applications faster. This Program is available for projects in Allegheny, Beaver, Bucks, Chester, Lebanon, Lehigh, Luzerne, Monroe, Montgomery, and York counties and is expected to accelerate the review timeline for individual permit applications by 73 business days.
- Numerous Chapter 102 forms and documents have been created or updated recently. [This summary](#) outlines when the new or revised documents become required for use.

The Bureau of Clean Water administers the statewide Erosion and Sediment Control (E&S) program under [25 Pa. Code Chapter 102](#). Chapter 102 requires a permit from DEP for the following activities:

[Act 162](#)

[E&S Resources](#)

[Stormwater Management](#)



Individual NPDES Permit & Modules

Permits and Applications

- [PAG-01 General NPDES Permit for Discharges of Stormwater Associated with Small Construction Activities](#) (visit DEP's Clean Water Academy for [training on PAG-01](#))
- [PAG-02 General NPDES Permit for Discharges of Stormwater Associated with Construction Activities](#) (visit DEP's Clean Water Academy for [training on PAG-02](#))
- [Application for an Individual NPDES Permit for Discharges of Stormwater Associated with Construction Activities](#)
- [Notice of Intent \(NOI\) for Coverage under the Erosion and Sediment Control General Permit \(ESCGP-4\) for Earth Disturbance Associated with Oil and Gas Exploration, Production, Processing, or Treatment Operations or Transmission Facilities](#)
- [Application for an Individual Erosion and Sediment Control \(E&S\) Permit](#)
- [Chapter 102 Permit Modules](#) (E&S Module 1, PCSM Module 2, Antidegradation Module 3, and Riparian Buffer Module 4)
 - Note the 2019 versions of [Module 1](#) and [Module 2](#) may be submitted up to 3/7/25
- [Application for NPDES or WQM Permit Transfer](#) (used for transferring Chapter 102 permits and other permits)
- [Application for NPDES or WQM Permittee Name Change](#) (used when a permittee's name changes but there is not a permit transfer)
- [General Information Form \(GIF\)](#) (used for Individual NPDES and E&S Permits)



Implementation Tools

- [DEP PCSM Spreadsheet \(XLSB\)](#) (Version 2.0, February 2025) – This spreadsheet developed by DEP is intended to assist with stormwater analyses required by Chapter 102 for PCSM Plans. The spreadsheet is a macro-enabled Excel binary file. [DEP PCSM Spreadsheet Instructions \(PDF\)](#) and [training](#) for the spreadsheet are available to assist users. **Note** – It is recommended that users check this site periodically for the latest updates to the spreadsheet. Updates are made as calculation or functional errors are identified and corrected. A new version number will be provided only when significant changes or enhancements are made to the spreadsheet, not when errors are corrected or minor changes are made. *When applicable to a project, version 2.0 must be used starting March 8, 2025.*
- [Pre-Development Site Characterization \(PDSC\) Spreadsheet \(XLSM\)](#) (Version 1.0, November 2024) – This spreadsheet is used in conjunction with PCSM Module 2 to evaluate the adequacy of pre-development site characterization activities. See the [DEP PDSC Spreadsheet Instructions \(PDF\)](#) and [training](#) for information on how to use the PDSC Spreadsheet. *When applicable to a project, version 1.0 must be used starting March 8, 2025.*
- [Managed Release Concept \(MRC\) Spreadsheet \(XLSM\)](#) (Version 1.1, February 2025) – This spreadsheet is used to document volume management credit for MRC SCMs that do not meet MRC Simplified Design Standards. See the [MRC Spreadsheet Instructions \(PDF\)](#) for information on using the MRC Spreadsheet. *When applicable to a project, versions 1.0 or 1.1 must be used starting March 8, 2025; version 1.1 must be used starting June 8, 2025.*



Module 2

3800-PM-BCW0406b Rev. 10/2024

PCSM Module 2

Pennsylvania

Department of

Environmental Protection

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

**DISCHARGES OF STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITIES
POST-CONSTRUCTION STORMWATER MANAGEMENT (PCSM) MODULE 2**

Applicant:

Project Site Name:

PRE-DEVELOPMENT SITE CHARACTERIZATION

1. Was a pre-development site characterization completed for this project? Yes No

If Yes, describe the activities undertaken.

2. No. Test Pits completed: No. Boreholes completed:

3. Number of Infiltration Tests completed: Method(s):

4. Project Site Area: acres Area investigated for infiltration capabilities: acres

5. DEP's Pre-Development Site Characterization Spreadsheet has been completed and is attached. Yes No

6. The infiltration potential of the site is: Limited Marginal Feasible Not Recommended

7. If the infiltration potential of the site is limited or is otherwise not advised, explain the limitations.

8. Is the project site located in an area with known karst features? Yes No

If Yes, was a subsurface geotechnical investigation conducted and is a report attached? Yes No

9. Are there natural stormwater features on-site that will be protected? Yes No

If Yes, describe the features and any increase or decrease in stormwater runoff volume to the features.



Points of Analysis (POAs)

3800-PM-BCW0406b Rev. 10/2024
PCSM Module 2

3800-PM-BCW0408b Rev. 12/2024
Application

Points of Analysis (POAs)

This section must be completed for all projects with the exception of those qualifying as site restoration projects.

Points of analysis are locations on a project site boundary, or at a surface water, that receive stormwater runoff from all, or a portion of, a project site and where stormwater management requirements of 25 Pa. Code § 102.8(g) must be demonstrated. POAs are selected considering both pre-construction and post-construction conditions. All runoff from a project site must be accounted for at one or more POAs. POAs may or may not be co-located with discharge points (DPs).

Identify all POAs used for the stormwater analysis for the entire project site. All surface waters receiving stormwater from the project site must be accounted for. All POAs must also be identified on PCSM Plan Drawings.

- Identify the POA identification (ID) number. Number POAs sequentially starting with 001. To distinguish between POAs and DPs on plan drawings, it is recommended that the prefixes "POA" and "DP" be used (e.g., POA-001, DP-001) and/or POAs and DPs be identified by different colors.
- Enter the latitude and longitude coordinates in decimal degree format with a minimum of five digits to the right of the decimal place.
- Enter the drainage area (DA), in acres, to the POA from the project site.
- Report the name of the surface water that will receive stormwater from the project site at or downstream of the POA.

Name of Receiving Waters – Specify the name of the surface waters receiving stormwater discharges (i.e., receiving waters) for each discharge point, as specified in 25 Pa. Code Chapter 93. If the receiving waters are not identified in Chapter 93, use the term “Unnamed tributary to XXX”, where XXX is the first named surface water downstream. If the discharge is to a storm sewer, list the name of the receiving waters followed by, “via storm sewer” (e.g., “Muddy Run via storm sewer”). If the discharge is to existing wetlands, list the name of the receiving waters followed by, “via wetland.”



PCSM Spreadsheet – General Information

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI																					
1	 DEPARTMENT OF ENVIRONMENTAL PROTECTION																				DEP PCSM Spreadsheet Instructions																																		
2																					Revised, March 24, 2025																																		
3	General Information																				DEP PCSM Spreadsheet Version 2.0, February 2025																																		
4	No. of Post-Construction Points of Analysis:																				Start POA Numbering at:																																		
5	Instructions General Volume Rate Quality					CLEAR																																																	
6	CLEAR FORM																																																						
7	Project Name: <input type="text" value="Farmer's Ag Project"/>					Application Type: <input type="text" value="Individual NPDES Application"/>																																																	
8	County: <input type="text" value="Cumberland"/>					Municipality: <input type="text" value="Hampden Township"/>																																																	
9	Project Type: <input type="text" value="Agricultural Operation"/>					<input checked="" type="radio"/> New Project <input type="radio"/> Minor / Major Amendment																																																	
10	Area: <input type="text" value="10.00"/> acres					Total Earth Disturbance: <input type="text" value="10.00"/> acres																																																	
11	(In Watershed)					(In Watershed)																																																	
12	Analysis: <input type="text" value="2"/>					at: <input type="text" value="001"/>																																																	
13	<table border="1"><thead><tr><th>Point of Analysis (POA) No.</th><th>Drainage Area (DA) (acres)</th><th>Earth Disturbance in DA (acres)</th><th>Existing Impervious in DA (acres)</th><th>Proposed Impervious in DA (acres)</th><th>Receiving Waters</th><th>Ch. 93 Class</th><th>Structural SCM(s)</th></tr></thead><tbody><tr><td>001</td><td>6.99</td><td>6.99</td><td>0.00</td><td>2.95</td><td>Discharge to Non-Surface Waters</td><td>HQ-CWF, MF</td><td>Yes</td></tr><tr><td>002</td><td>3.01</td><td>0.95</td><td>0.00</td><td>0.00</td><td>Discharge to Non-Surface Waters</td><td>HQ-CWF, MF</td><td>No</td></tr><tr><td>Undetained Areas</td><td>0.00</td><td>2.06</td><td>0.41</td><td>0.07</td><td></td><td></td><td></td></tr><tr><td>Totals:</td><td>10.00</td><td>10.00</td><td>0.41</td><td>3.02</td><td></td><td></td><td></td></tr></tbody></table>								Point of Analysis (POA) No.	Drainage Area (DA) (acres)	Earth Disturbance in DA (acres)	Existing Impervious in DA (acres)	Proposed Impervious in DA (acres)	Receiving Waters	Ch. 93 Class	Structural SCM(s)	001	6.99	6.99	0.00	2.95	Discharge to Non-Surface Waters	HQ-CWF, MF	Yes	002	3.01	0.95	0.00	0.00	Discharge to Non-Surface Waters	HQ-CWF, MF	No	Undetained Areas	0.00	2.06	0.41	0.07				Totals:	10.00	10.00	0.41	3.02										
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DEP PCSM Spreadsheet Instructions Revised, March 24, 2025

NOTE 2 - The spreadsheet is intended for the evaluation of volume, rate, and water quality for discharges to a **single receiving surface water**. If for example there are 3 post-construction points of analysis (POAs) to Mud Run and 3 post-construction POAs to Clear Creek, two spreadsheets should be completed (one for Mud Run and one for Clear Creek). Alternatively, the spreadsheet can be used on a POA basis.

All cells available for data entry or selection from a drop-down menu are highlighted. **The user may use the Tab, arrow, or Enter keys to move from cell to cell. Using the mouse to click from cell to cell may result in validation errors.**

Care must be taken to enter the data in the correct order identified in these instructions to avoid potential errors with the calculations and logic. For example, skipping a cell may prevent a calculation or produce an error message. The spreadsheet is protected. Formulas are not visible but are explained in this document. Validation that exists in the spreadsheet is highlighted and explained in this document.

READ AND FOLLOW INFORMATION IN THE INSTRUCTIONS



PCSM SCM Inventory

3800-PM-BCW0406b Rev. 10/2024
PCSM Module 2

STORMWATER CONTROL MEASURE

PCSM SCM INVENTORY					
SCM ID	SCM Name	Latitude	Longitude	DA Treated (acres)	Deviations from BMP Manual
PCSM SCM Inventory					
This section must be completed for all projects where structural or non-structural PCSM SCMs will be installed. This section can be skipped for projects qualifying as site restoration projects.					
1. Identify all PCSM SCMs planned for the project site.					
<ul style="list-style-type: none">Provide an SCM ID number for each listed SCM. If there are two SCMs in series, each SCM should be listed on a separate row with a separate number. These SCM ID numbers should also be identified on PCSM Plan Drawings.List the name of the SCM. Use the name that exists in published DEP guidance wherever possible.Report the latitude and longitude coordinates at the center of the SCM in decimal degree format, where a minimum of five digits is reported to the right of the decimal place. For SCMs that are activities, latitude and longitude may remain blank.Report the drainage area (DA) treated by the SCM, in acres.Explain any deviations from the Pennsylvania Stormwater Best Management Practices Manual (BMP Manual; 363-0300-002) in the space provided. For example, if the BMP Manual recommends a ponding depth no more than two feet and the SCM has been designed for 2.5 feet of ponding depth, report that deviation here. Attach a separate sheet if necessary to explain all deviations.					
2. Area not treated by an SCM, Earth Disturbance Area (acres):					
3. <input type="checkbox"/> One or more SCMs will be located off-site. SCM IDs:					
Area not treated by an SCM, Project Site Area (acres):					

Note: If a stormwater feature (i.e. vegetated swale) is planned on-site but not managing rate, volume or water quality it does not have to be listed as a PCSM SCM in this table. However, if that feature functions to transport runoff on-site to a SCM then it should be identified as a PCSM SCM in this table.



PCSM SCM Inventory

3800-PM-BCW0406b Rev. 10/2024
PCSM Module 2



Module 2 & PCSM Spreadsheet – Volume

3800-PM-BCW0406b Rev. 10/2024
PCSM Module 2

• 5 •

4. **PCSM Spreadsheet.** Check the box if the Volume Worksheet in DEP's PCSM Spreadsheet was used for the stormwater volume management analysis and if a printout of the Volume Worksheet is attached. The PCSM Spreadsheet is available at www.dep.pa.gov/constructionstormwater, select "E&S Resources". The PCSM Spreadsheet uses the net change in the 2-year/24-hour storm as the design standard and calculates infiltration and evapotranspiration (ET) credits for selected SCMs using DEP-approved methods. If a completed Volume Worksheet is attached to the NOI or application, the applicant may skip questions #5 - #9 in this section and may omit supporting stormwater analysis calculations.



Incremental SCM DA (acres) – Enter the drainage area, in acres, that is tributary to the reported SCM within the disturbed area. This value may be different than the drainage area reported on the General Worksheet for the POA (i.e., the POA may receive flows that are not treated by the SCM).

For downstream SCMs in series enter “0” if the only flows received are from an upstream SCM. If a downstream SCM receives flow from drainage areas that do not flow to upstream SCMs, enter the incremental SCM drainage area.

Module 2 & PCSM Spreadsheet – Rate

3800-PMBW0406b Rev. 10/2024
PCSM Module 2

STORMWATER ANALYSIS – PEAK RATE											
Surface Water Name:		POA(s):									
1. <input type="checkbox"/> The design standard is based on rate requirements in an Act 167 Plan approved by DEP within the past five years. 2. <input checked="" type="checkbox"/> The design standard is based on managing the net change for 2-, 10-, 50-, and 100-year/24-hour storms. 3. <input type="checkbox"/> An alternative design standard is being used. 4. <input type="checkbox"/> A printout of DEP's PCSM Spreadsheet – Rate Worksheet is attached. 5. <input checked="" type="checkbox"/> Alternative rate calculations are attached.											
6. Identify precipitation amounts. Source of precipitation data: <table border="1"> <tr> <td>2-Year/24-Hour Storm:</td> <td>10-Year/24-Hour Storm</td> </tr> <tr> <td>50-Year/24-Hour Storm:</td> <td>100-Year/24-Hour Storm</td> </tr> </table>								2-Year/24-Hour Storm:	10-Year/24-Hour Storm	50-Year/24-Hour Storm:	100-Year/24-Hour Storm
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50-Year/24-Hour Storm:	100-Year/24-Hour Storm										
7. Identify all SCMs used to mitigate peak rate differences and provide the requested information.											
SCM ID	Inflow to SCM (cfs)			Outflow from SCM (cfs)							
	2-Yr	10-Yr	50-Yr	100-Yr	2-Yr	10-Yr	50-Yr	100-Yr			
Alternative Calculations. If an applicant is required to complete this section and the Rate Worksheet is not attached to the NOI, or if only the Summary of Peak Rates table of the Rate Worksheet is provided, the applicant must submit supporting calculations in an alternative format as an attachment to the NOI and must complete the remainder of this section.											
8. Report peak rates for pre-construction and post-construction with SCMs and identify the differences.											
Design Storm	Pre-Construction Peak Rate (cfs)	Post-Construction Peak Rate (with SCMs) (cfs)	Difference (cfs)								
2-Year/24-Hour											
10-Year/24-Hour											
50-Year/24-Hour											
100-Year/24-Hour											

PCSM Spreadsheet. Check the box if the Rate Worksheet in DEP's PCSM Spreadsheet was used for the peak rate analysis and if a printout of the Rate Worksheet is attached. The PCSM Spreadsheet is available at www.dep.pa.gov/constructionstormwater, select "E&S Resources". The PCSM Spreadsheet uses the net change in peak rate for the 2-, 10-, 50-, and 100-year/24-hour storms as the design standard. Note that the Rate Worksheet is not suitable for large drainage areas. If a completed Rate Worksheet is attached to the NOI or application, the applicant may skip the remainder of this section and may omit supporting calculations. If the Rate Worksheet is not used to calculate peak rates, the applicant must complete the remainder of this section and must submit supporting calculations. Note that if an applicant only completes the summary of peak rates table in the Rate Worksheet, the remainder of this section must be completed and supporting calculations must be submitted.

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG																													
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 <p>Rate Control</p> <p>Project: Farmer's Ag Project</p> <p>Instructions General Volume Rate Quality CLEAR FORM</p> <p>Precipitation Amounts:</p> <table border="1"> <tr> <td>NOAA 2-Year 24-Hour Storm Event (in):</td> <td>2.89</td> <td>Alternative 2-Year 24-Hour Storm Event (in):</td> <td> </td> </tr> <tr> <td>NOAA 10-Year 24-Hour Storm Event (in):</td> <td>4.2</td> <td>Alternative 10-Year 24-Hour Storm Event (in):</td> <td> </td> </tr> <tr> <td>NOAA 50-Year 24-Hour Storm Event (in):</td> <td>6.03</td> <td>Alternative 50-Year 24-Hour Storm Event (in):</td> <td> </td> </tr> <tr> <td>NOAA 100-Year 24-Hour Storm Event (in):</td> <td>7.04</td> <td>Alternative 100-Year 24-Hour Storm Event (in):</td> <td> </td> </tr> </table> <p><input checked="" type="checkbox"/> Report Summary of Peak Rates Only</p> <p>Attach model input and output data or other calculations to support the rates reported below.</p> <table border="1"> <thead> <tr> <th colspan="3">Peak Discharge Rates (cfs)</th> </tr> <tr> <th>Pre-Construction</th> <th>Post-Construction</th> <th>Net Change</th> </tr> </thead> <tbody> <tr> <td>2-Year Storm: 2.19</td> <td>0.22</td> <td>-1.97</td> </tr> <tr> <td>10-Year Storm: 11.26</td> <td>1.74</td> <td>-9.52</td> </tr> <tr> <td>50-Year Storm: 26.05</td> <td>4.45</td> <td>-21.60</td> </tr> <tr> <td>100-Year Storm: 33.27</td> <td>5.81</td> <td>-27.46</td> </tr> </tbody> </table> <p>Rate Control Satisfied Rate Control Satisfied Rate Control Satisfied Rate Control Satisfied</p>																												NOAA 2-Year 24-Hour Storm Event (in):	2.89	Alternative 2-Year 24-Hour Storm Event (in):		NOAA 10-Year 24-Hour Storm Event (in):	4.2	Alternative 10-Year 24-Hour Storm Event (in):		NOAA 50-Year 24-Hour Storm Event (in):	6.03	Alternative 50-Year 24-Hour Storm Event (in):		NOAA 100-Year 24-Hour Storm Event (in):	7.04	Alternative 100-Year 24-Hour Storm Event (in):		Peak Discharge Rates (cfs)			Pre-Construction	Post-Construction	Net Change	2-Year Storm: 2.19	0.22	-1.97	10-Year Storm: 11.26	1.74	-9.52	50-Year Storm: 26.05	4.45	-21.60	100-Year Storm: 33.27	5.81	-27.46
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Module 2 & PCSM Spreadsheet – Water Quality

3800-PM-BCW406b Rev. 10/2024
PCSM Module 2

STORMWATER ANALYSIS – WATER QUALITY					
<input checked="" type="checkbox"/> A printout of DEP's PCSM Spreadsheet – Quality Worksheet is attached for all surface waters receiving discharges.					
OTHER INFORMATION					
1. <input type="checkbox"/> A long-term operation and maintenance (O&M) plan has been prepared for each SCM. 2. <input type="checkbox"/> A long-term O&M plan will be recorded with a legal instrument for each property containing an SCM. 3. <input type="checkbox"/> PCSM Plan Drawings have been developed for the project and are attached to the NOI/application. 4. <input type="checkbox"/> The PCSM Plan has been planned, designed, and will be implemented to be consistent with the E&S Plan. 5. <input type="checkbox"/> Recycling and proper disposal of materials associated with PCSM SCMs are addressed as part of long-term operation and maintenance of the PCSM SCMs. 6. <input type="checkbox"/> There are pre-construction stormwater discharges to wetlands from the project site.					
Pre-Construction			Post-Construction		
Wetland ID	Drainage Area (ac)	Volume (CF)	Drainage Area (ac)	Volume (CF)	Ponding Depth Increase or Decrease (±%)
7. Describe the sequence of PCSM SCM implementation in relation to earth disturbance activities.					
8. Identify naturally occurring geologic formations or soil conditions that may have the potential to cause pollution after earth disturbance activities are completed and PCSM SCMs are operational and the applicant's plan to avoid or minimize potential pollution and its impacts.					
9. Thermal impacts: check the appropriate box(es) if any of the following are true: <ul style="list-style-type: none"> <input type="checkbox"/> A peak rate control SCM is proposed that will receive stormwater from a drainage area containing more than 25% impervious surface that exceeds 10% of the receiving surface water's watershed area. <input type="checkbox"/> A Wet Basin or Engineered Stormwater Treatment Wetland is proposed that does not include shading and/or a reversed slope outlet pipe. <input type="checkbox"/> An impervious undetained area exceeds 10% of the receiving water's watershed area. <input type="checkbox"/> A quantitative thermal impact analysis is attached. 					

Version	Date	Change(s)
2.0	2/19/2025	1) Changed "discharge points" ("DPs") to "points of analysis" ("POAs"). 2) Changed "BMP" to "SCM". 3) Removed automatic MRC credit calculation in Volume Worksheet; Managed Release Credits must be entered as reported on the MRC Simplified Design Spreadsheet or MRC Spreadsheet, as applicable. 4) Removed requirement from Structural SCM Volume Credits Table (Volume Worksheet) that MRC SCMs must discharge off-site for the Managed Release Credits cell to be available (this cell will be available for any MRC SCM). 5) Updated formula for pre-construction pollutant loads to address the possibility that zero (0) will be calculated. 6) Rounded pre- and post-construction pollutant loads to 2 decimal places.

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN																							
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<input checked="" type="checkbox"/> Use default SCM Outflows and Median SCM Outflow Concentrations																																																														
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POA No.	SCM No.	SCM Name	MRC DA (acres)	Vol. Routed to SCM (CF)	Inf. & ET Credits (CF)	Capture & Buffer Credits (CF)	Outflow (CF)	Outflow Conc. (mg/l)	Pollutant Loads (lbs)																																																					
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NON-STRUCTURAL SCM WATER QUALITY CREDITS (LBS):																																																														
NET POLLUTANT LOADS FROM SITE, POST-CONSTRUCTION (LBS): 17.53 0.07 0.48																																																														
POLLUTANT LOADS FROM SITE, PRE-CONSTRUCTION (LBS): 40.53 0.18 1.60																																																														
WATER QUALITY REQUIREMENT SATISFIED																																																														
CERTIFICATION																																																														
I certify under penalty of law and subject to the penalties of 18 Pa.C.S. § 4904 (relating to unsworn falsification to authorities) that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I further certify that the structure, function, and calculations contained in this spreadsheet have not been modified in comparison to the spreadsheet DEP has posted to its website or, if modifications were made, an explanation of the modifications made is attached to this spreadsheet.																																																														
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Module 2 – Impervious Surfaces (Multi-Lot Development Only)

Impervious Surfaces (Multi-Lot Development Only)

Complete this section if 1) the project site includes more than one lot or tax parcel and 2) lots have been sold in anticipation of earth disturbance activities and/or it is expected that the lots will be sold following receipt of a Chapter 102 permit. Attach additional sheets as necessary.

- **Objective Met?** – Check the box if either 1) Maximum Allowable Impervious, As Designed is at least 110% of Planned Impervious or 2) Planned Impervious is equal to Maximum Allowable Impervious, Per Ordinance. If the box is checked and if the maximum impervious area for the lot is recorded with the legal instrument, the permittee will not be responsible for identifying any new impervious added to a lot on record drawings after a lot is sold during the term of permit coverage. If not checked, the permittee is responsible for verifying as-built impervious area on the lot for record drawings.

1 Enter the impervious area as presented on PCSM Plan Drawings.

2 Report the maximum allowable impervious on the lot according to the stormwater analysis and SCM design.

3 List the maximum allowable impervious on the lot to meet requirements of a local ordinance, if applicable

4 Check the box if either 1) Maximum Allowable Impervious, As Designed is at least 110% of Planned Impervious or 2) Planned Impervious is equal to Maximum Allowable Impervious, Per Ordinance. If the box is checked and the maximum impervious area for the lot is recorded, the permittee will not be responsible for identifying new impervious added to a lot on record drawings after a lot is sold during the term of permit coverage.



Module 2 & PCSM Spreadsheet Revisions

Latest Revisions

Module 2 – 10/2024

Module 2 Instructions – 2/2025

PCSM Spreadsheet – 2/2025 (Ver. 2.0)

PCSM Spreadsheet Instructions – 3/24/2025

DEP PCSM Spreadsheet Instructions
Revised, March 24, 2025

Revision History

Date	Version*	Revision Reason
3/24/2025	2.0	Identified future standards for determining saturated hydraulic conductivity to be entered into the Volume Worksheet (see explanation of Infiltration Rate). Added Attachment B to describe the basin flood test option for determining infiltration rate or Ksat in gravel / weathered rock.
2/28/2025	2.0	Clarified in NOTE 23 and the description of the Riparian Forest Buffer Credit (CF) that the volume that should be entered for Volume Routed to SCM when the SCM "Riparian Forest Buffer (Min 150 Ft)" is selected should be the net change in volume, not the total post-construction volume, within the project site area.
2/20/2025	2.0	Changed requirement in Volume Worksheet, Structural SCM Volume Credits table, that the Discharge column must be set to "Off-Site" in order for Managed Release Credits cell to be available when an MRC SCM is entered. Any selection for Discharge will make the Managed Release Credits available when the MRC? column is set to "Y".
11/18/2024	2.0	1) Changed "discharge points" ("DPs") to "points of analysis" ("POAs"). 2) Changed "BMP" to "SCM". 3) Removed automatic MRC credit calculation in Volume Worksheet; Managed Release Credits must be entered as reported on the MRC Simplified Design Spreadsheet or MRC Spreadsheet, as applicable.

3800-PM-BCW406b Rev. 2/2025
Module 2 Instructions

Revision History

Date	Version	Revision Reason
2/2025	1.1	Updated instructions to address changes to Module 2 including the addition of the Pre-Development Site Characterization section, the addition of the Impervious Surfaces section and questions regarding wetlands and thermal impacts (12/2024). Added NOTE 5 concerning use of the Modified Rational Method and variations thereof (2/2025).
12/2019	1.0	Original

DEP PCSM Spreadsheet
Version 2.0, February 2025

Version	Date	Change(s)
2.0	2/19/2025	1) Changed "discharge points" ("DPs") to "points of analysis" ("POAs"). 2) Changed "BMP" to "SCM". 3) Removed automatic MRC credit calculation in Volume Worksheet; Managed Release Credits must be entered as reported on the MRC Simplified Design Spreadsheet or MRC Spreadsheet, as applicable. 4) Removed requirement from Structural SCM Volume Credits Table (Volume Worksheet) that MRC SCMs must discharge off-site for the Managed Release Credits cell to be available (this cell will be available for any MRC SCM). 5) Updated formula for pre-construction pollutant loads to address the possibility that zero (0) will be calculated. 6) Rounded pre- and post-construction pollutant loads to 2 decimal places.
1.9	10/18/2021	1) Modified dropdown list for Infiltration Period (Volume Worksheet, Structural BMP Volume Credits table) to eliminate hours 1-11 (i.e., the minimum Infiltration Period must be 12 hours). 2) Updated median outflow concentrations (MOCs) for structural BMPs based on the latest analysis of literature data.

DEP's Bureau of Clean
Water Resource Account

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Featured Pre-Development Site Characterization Spreadsheet

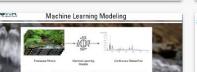

2022 Integrated Report and Viewer Demonstrations


2024 Integrated Report Demonstration


DCNR 2020 Riparian Forest Buffers Series (Recorded Webinars)


DCNR 2021 Riparian Forest Buffers Series (Recorded Webinars)


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Permits and Applications

- [PAG-01 General NPDES Permit for Discharges of Stormwater Associated with Small Construction Activities \(visit DEP's Clean Water Academy for training on PAG-01\)](#)
- [PAG-02 General NPDES Permit for Discharges of Stormwater Associated with Construction Activities \(visit DEP's Clean Water Academy for training on PAG-02\)](#)
- [Application for an Individual NPDES Permit for Discharges of Stormwater Associated with Construction Activities](#)
- [Notice of Intent \(NOI\) for Coverage under the Erosion and Sediment Control General Permit \(ESCGP-4\) for Earth Disturbance Associated with Oil and Gas Exploration, Production, Processing, or Treatment Operations or Transmission Facilities](#)
- [Application for an Individual Erosion and Sediment Control \(E&S\) Permit](#)
- [Chapter 102 Permit Modules \(E&S Module 1, PCSM Module 2, Antidegradation Module 3, and Riparian Buffer Module 4\)](#)
 - Note the 2019 versions of [Module 1](#) and [Module 2](#) may be submitted up to 3/7/25
- [Application for NPDES or WQM Permit Transfer \(used for transferring Chapter 102 permits and other permits\)](#)
- [Application for NPDES or WQM Permittee Name Change \(used when a permittee's name changes but there is not a permit transfer\)](#)
- [General Information Form \(GIF\) \(used for Individual NPDES and E&S Permits\)](#)

Published Forms

- [Chapter 102 Forms](#) - this folder contains the Co-Permittee Liability Release Form, Co-Permittee Acknowledgement Form for Chapter 102 permits, Chapter 102 Construction Stormwater General Permit, Chapter 102...

Act 162 

Construction Stormwater 



Comments and Questions

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mwlubinsky@cumberlandcountypa.gov

717-240-7812

