

Brief Stormwater Topics

Westmoreland Conservation District

Engineers Workshop

March 19 & 20 2026



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Conservation
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PA DEP's learning and resource tools—available to all!

Navigation Menu: Menu, HOME, DASHBOARD, REPORTS, FIND LEARNING, SEO REPORT, RESOURCES, SPEED

Hero Banner: PENNSYLVANIA CLEAN WATER ACADEMY, View Course Catalog

Course Catalog: COURSE CATALOG, Explore available courses, Continue to Course Catalog

Training Programs: TRAINING PROGRAMS, View training programs comprised of multiple courses, Continue to Training Programs

Contact Us: CONTACT US, Contact us or request a login, Continue to Contact Us

Search: COURSE SEARCH

Create an account and the CWA keeps track of what you learn

The screenshot displays the Pennsylvania Clean Water Academy website interface. At the top, the logo and name 'Pennsylvania Clean Water Academy' are on the left, and a user profile for 'James Pillsbury' is on the right. A dark blue navigation bar contains links for HOME, DASHBOARD, REPORTS, FIND LEARNING (highlighted), SEO REPORT, RESOURCES, and SPEED. Below the navigation bar, the main heading is 'Find learning'. A search bar is located on the right side of this section. On the left, there are filter options for 'Category All', 'Learning type' (Courses, Training Programs), and 'Filters'. The main content area shows a grid of course cards, each with a featured tag, a title, a category, and a 'Featured' label. The cards include:

- 2024 PAG-02 General Permit** (Permitting)
- 2026 Agriculture Inspection Training: Conducting Inspections, Reporting, and Follow-up** (Current)
- Encountering Acid-Producing Rock/Coal During Construction Activities** (Mining and Reclamation)
- How to Access the Qualified Visual Site Inspector Training Programs** (Clean Water Academy)
- How to Use Clean Water Academy (Revised April 2022)** (Clean Water Academy)
- Introduction to Wetland Determination - 2025** (Wetland Determination)
- Mitigation Banking in Pennsylvania 101: History, Process, and Results** (Mitigation Banking)
- MRC (Managed Release Concept)** (MRC)
- SEO Certification Pathways** (SEO Certification Pathways)
- Small Group Training - Chapter 102 Training Webinars and Events** (Small Group Training)

Clean Water Academy courses cover many relevant topics



MRC (Managed Release Concept)

In this course, the Pennsylvania Department of Environmental Protection (DEP) will introduce the foundational principles of MRC Stormwater Control Measures (SCMs) and their design standards. Through this course, participants will gain the knowledge and skills needed to effectively implement MRC SCMs. This course is designed for professionals involved in stormwater management, planning, and design, providing practical guidance to support sustainable and compliant stormwater practices.

Additional modules are under development.



Pennsylvania
Department of
Environmental Protection

Course Learning Activities



[MRC Module 1](#)

Course Feedback



[Course Feedback](#)

Clean Water Academy values your feedback on our digital training.

PA DEP's website has links for you

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

Compress and uncompress... Suggested Sites Web Slice Gallery

Official website of the Commonwealth of Pennsylvania



Translate

Search



Services Agency Directory Your Government Visit PA News

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

CLEAN WATER

Stormwater Management

Department of Environmental Protection

Programs and Services

- Air
- Business
- Bureau of Laboratories
- Contracts, Procurement, and Bonding
- Energy
- Grants, Loans, and Rebates
- Permitting Coordination
- Land
- Mining
- Oil and Gas

The Bureau of Clean Water administers the NPDES permitting and compliance monitoring programs for [industrial](#), [municipal](#), and [construction](#) stormwater in Pennsylvania, and oversees the implementation of the [Act 167 stormwater management program](#) in DEP's regional offices. Please use the links on the right to learn more about these topics.

[Act 167](#) →

[Industrial Stormwater](#) →

[Municipal Stormwater](#) →

[Construction Stormwater](#) →

[Be Stormwater Smart](#) →

PA DEP's e-library contains all the latest documents

← → ↻ 🏠 greenport.pa.gov/eLibrary//GetFolder?FolderID=90982 📄 ☆

Compress and uncom... Suggested Sites Web Slice Gallery

PA.GOV OFFICIAL APP Josh Shapiro, Governor Jessica Shirley, Secretary

eLibrary Search

Location: eLibrary - FOLDERS / PERMIT AND AUTHORIZATION PACKAGES / CLEAN WATER / PAG-02 NPDES GENERAL PERMIT FOR DISCHARGES OF STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITIES **3800-PM-BCW0405** /

PAG-02 NPDES GENERAL PERMIT FOR DISCHARGES OF STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITIES **3800-PM-BCW0405**

	Name
	01 - PAG-02 NOTICE OF INTENT INSTRUCTIONS.PDF 3800-PM-BCW0405A
	02 - PAG-02 NOTICE OF INTENT FORM.DOCX 3800-PM-BCW0405B
	02 - PAG-02 NOTICE OF INTENT FORM.PDF 3800-PM-BCW0405B
	03 - PAG-02 CHECKLIST.DOCX 3800-PM-BCW0405C
	03 - PAG-02 CHECKLIST.PDF 3800-PM-BCW0405C
	04 - PAG-02 SAMPLE PERMIT.PDF 3800-PM-BCW0405D
	05 - PAG-02 ANNUAL REPORT.DOCX 3800-PM-BCW0405E
	05 - PAG-02 ANNUAL REPORT.PDF 3800-PM-BCW0405E
	06 - PAG-02 ANNUAL REPORT INSTRUCTIONS.PDF 3800-PM-BCW0405F
	07 - PAG-02 FACT SHEET.PDF 3800-PM-BCW0405G
	09 - PAG-02 COMMENT AND RESPONSE DOCUMENT.PDF 3800-PM-BCW0405

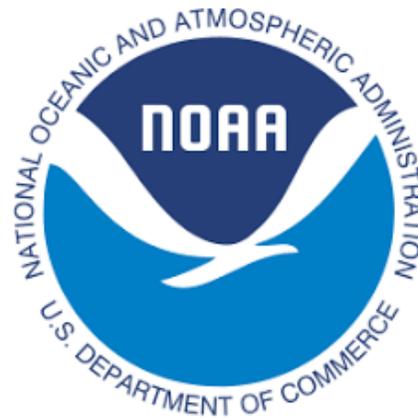


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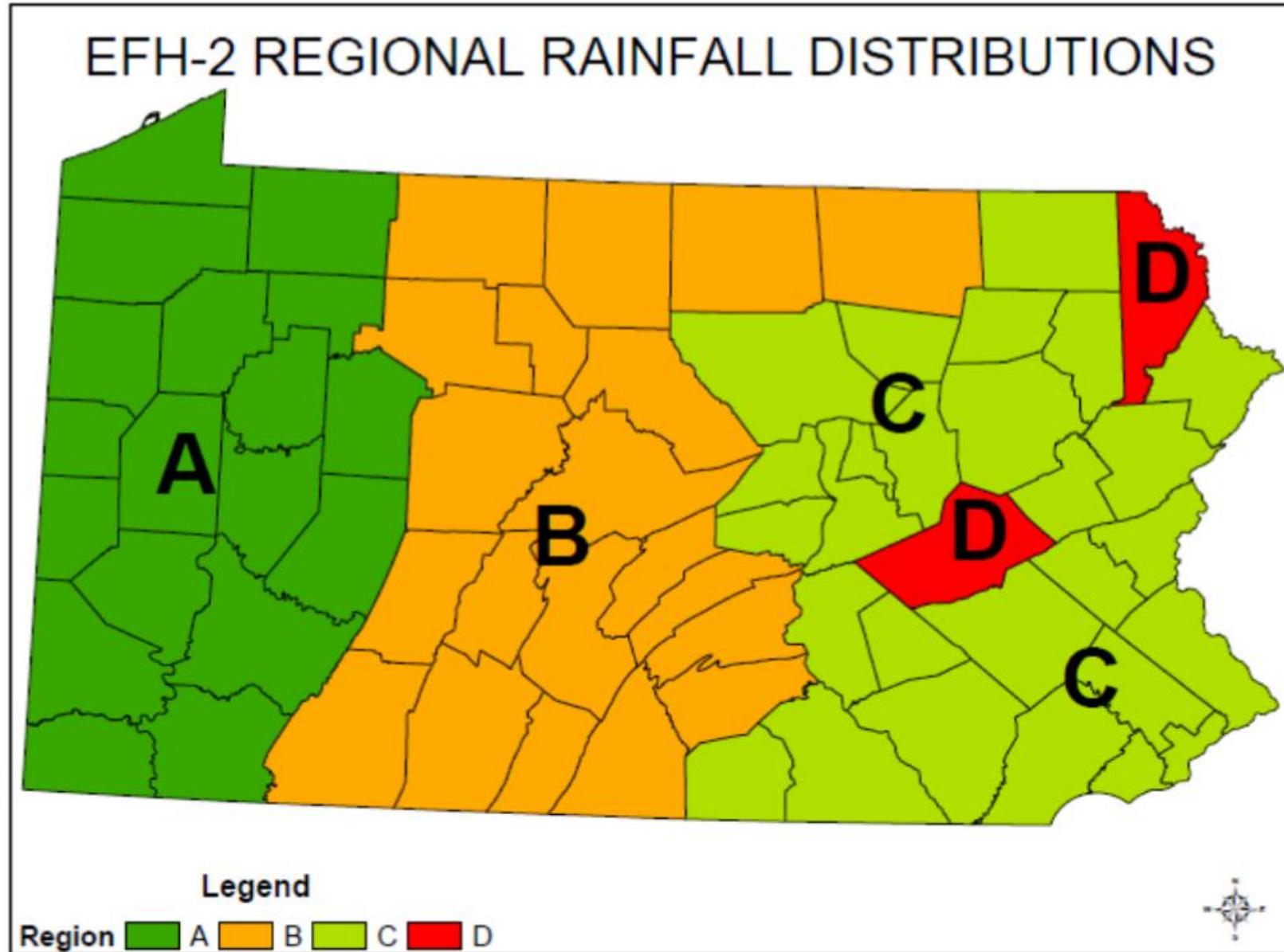
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SCS Type II routing vs. NOAA Routing

- Routing models are used when calculating peak runoff, runoff volume, storm duration, etc.
- For many years the USDA NRCS Type II routing was the standard
- NOAA and NRCS have determined that the use of the SCS Type II routing is not appropriate with NOAA precipitation data
- Please use the NOAA Type A storm when routing



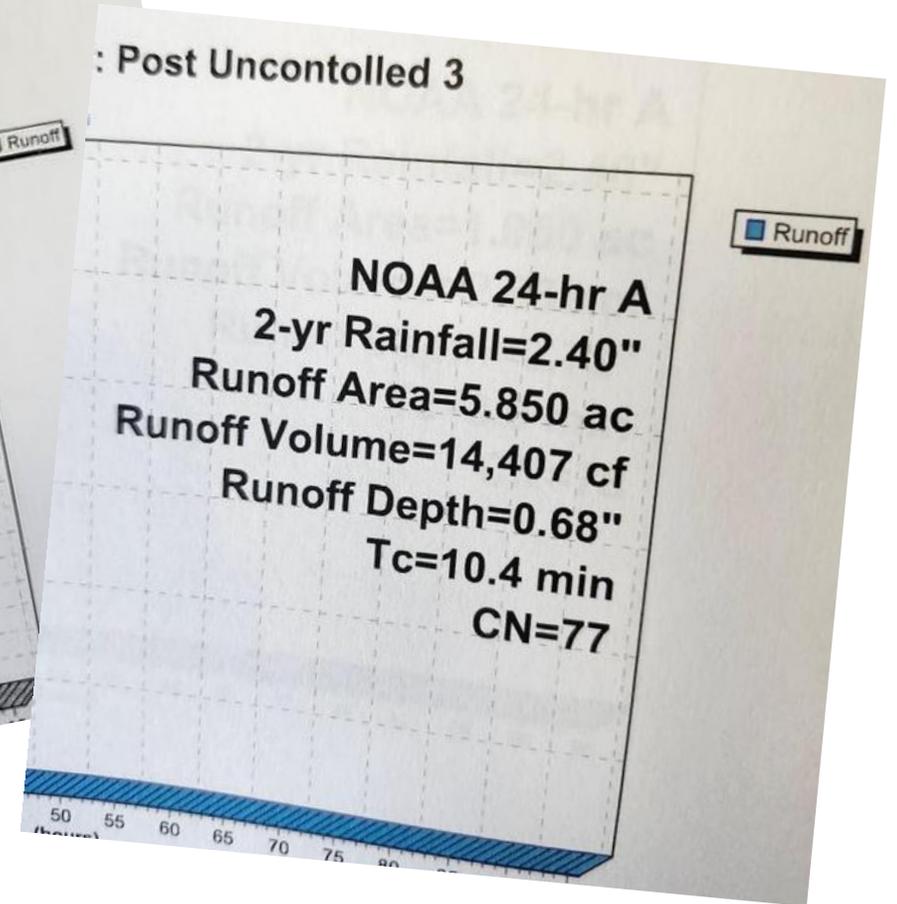
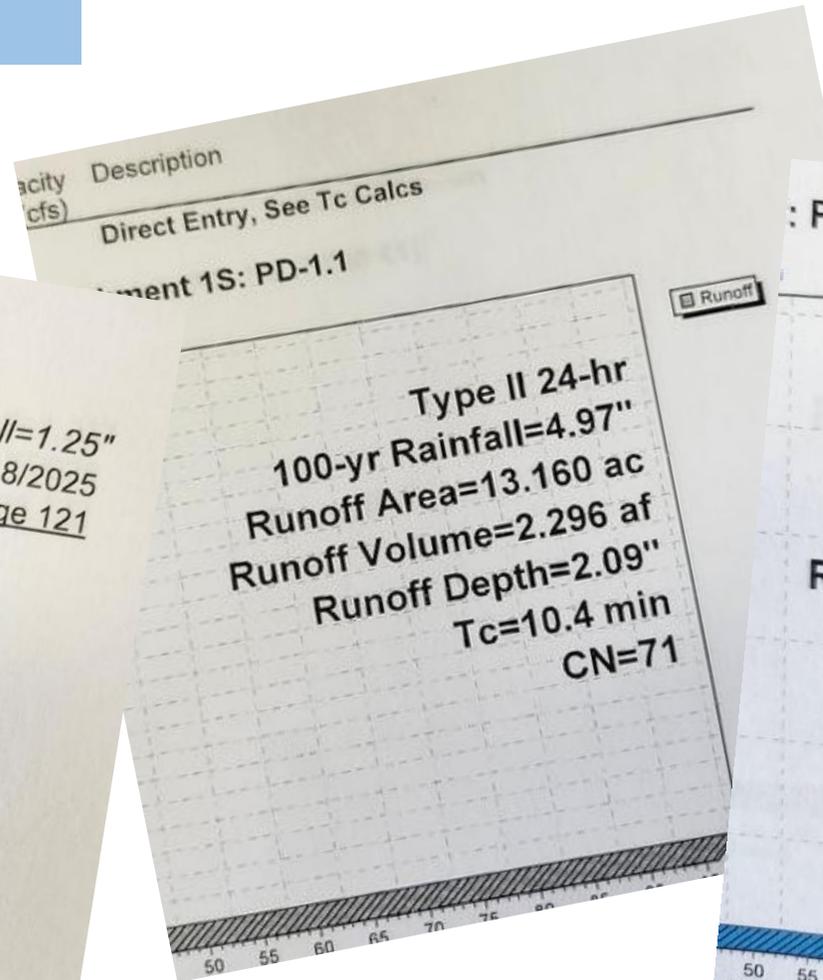
This Supplement to EFH-2 concerns use of rainfall data developed by the National Oceanic and Atmospheric Administration Atlas 14 (NOAA 14) and rainfall distributions based on the NOAA 14 data. These rainfall data and rainfall distributions will replace rainfall data from Weather Bureau Technical Paper 40 (TP-40) and the standard NRCS rainfall distributions Type II and Type III.



Check your software!!

ware Solutions LLC
NJ DEP 2-hr 1.2in/2hr Rainfall=1.25"
Printed 11/18/2025
Page 121
or Pond 25P: MRC #3A

	Surface (sq-ft)	Storage (cubic-feet)
50	6,755	6,664
55	6,802	7,003
60	6,850	7,345
65	6,897	7,688
70	6,945	8,034
75	6,992	8,383
80	7,040	8,734
85	7,087	9,087
90	7,135	9,442
95	7,185	9,800
100	7,236	10,161



One example of SCS Type 2 vs. NOAA, peak flows for 2 and 10 year storms

Acres	SCS Type II	NOAA
14	22.2	21.8
21	19.2	18.4
46	15.5	16.8

10 year storm

Acres	SCS Type II	NOAA
46	34.9	37.0



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Average? Geometric Mean?

- Certain regulations require you to provide an average of data
- Certain regs indicate you need to do the “geometric mean” of data
- One of these situations is with infiltration testing



Average vs. Geometric Mean

The average of these numbers is...

$$0.3 + 0.8 + 0.7 + 9.1 = 10.9$$

$$10.9 / 4 = \mathbf{2.725}$$

The geometric mean of these numbers

$$0.3 \times 0.8 \times 0.7 \times 9.1 = 1.5288$$

$$1.5288 ^{0.25} = \mathbf{1.112}$$

Which of these two mathematical processes gives a number more representative of what's happening on the site?

Infiltration tests...

- Note that an “outlier” data point shows that you ought to do more infiltration tests
- The previous slide’s data—0.3, 0.8, 0.7, 9.1 has an outlier
- The test was probably done in loose or fractured soil
- Does the outlier signify a problem with the site or with the testing?





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Weighted Curve Numbers

- If an area has a mix of impervious and pervious (for example, a housing plan) then it is possible to calculate a weighted Curve Number (CN) for the whole area
- DEP's guidance says that "a weighted CN is generally unacceptable for volume analysis due to the large error associated with averaging of initial abstractions for storms less than or equal to the 2-year/24 hour event. Curve numbers for impervious and non-compacted pervious areas must be separate for this analysis."



Volume Management

Project: Sample Site

- Instructions
- General
- Volume**
- Rate
- Quality

CLEAR FORM

2-Year / 24-Hour Storm Event (NOAA Atlas 14): inches Alternative 2-Year / 24-Hour Storm Event: inches

Alternative Source:

Pre-Construction Conditions: No. Rows: Exempt from Meadow in Good Condition Automatically Calculate CN, Ia, Runoff and Volume

Land Cover	Area (acres)	Soil Group	CN	Ia (in)	Q Runoff (in)	Runoff Volume (cf)	
Meadow	11.06	D	78	0.564	0.70	28,301	
TOTAL (ACRES):		11.06			TOTAL (CF):		28,301

Post-Construction Conditions: No. Rows:

Land Cover	Area (acres)	Soil Group	CN	Ia (in)	Q Runoff (in)	Runoff Volume (cf)	
DP-001	3.85	D	83	0.500	0.80	11,183	
DA-1 Undetained	7.10	D	83	0.410	0.96	24,709	
DA-2 Undetained	0.11	D	80	0.564	0.70	281	
TOTAL (ACRES):		11.06			TOTAL (CF):		36,173

NET CHANGE IN VOLUME TO MANAGE (CF):

Weighted
CN

7,872
c.f.

DEP PCSM Spreadsheet
Version 2.1, January 2026

Volume Management Project: Sample Site

Instructions General **Volume** Rate Quality CLEAR FORM

2-Year / 24-Hour Storm Event (NOAA Atlas 14): inches Alternative 2-Year / 24-Hour Storm Event: inches

Alternative Source:

Pre-Construction Conditions: No. Rows: Exempt from Meadow in Good Condition Automatically Calculate CN, Ia, Runoff and Volume

Land Cover	Area (acres)	Soil Group	CN	Ia (in)	Q Runoff (in)	Runoff Volume (cf)
Pervious as Meadow	11.06	D	78	0.564	0.70	28,301
TOTAL (ACRES):		11.06			TOTAL (CF):	28,301

Post-Construction Conditions: No. Rows:

Land Cover	Area (acres)	Soil Group	CN	Ia (in)	Q Runoff (in)	Runoff Volume (cf)
Open Space (Lawns, Parks, Golf Courses, Cemeteries, Etc.) - Good Condition (Grass Cover > 75%)	3.25	D	80	0.500	0.80	9,440
Impervious Areas: Paved Parking Lots, Roofs, Driveways, Etc. (Excluding ROW)	0.60	D	98	0.041	2.14	4,664
Open Space (Lawns, Parks, Golf Courses, Cemeteries, Etc.) - Good Condition (Grass Cover > 75%)	5.75	D	80	0.500	0.80	16,702
Impervious Areas: Paved Parking Lots, Roofs, Driveways, Etc. (Excluding ROW)	1.35	D	98	0.041	2.14	10,495
Open Space (Lawns, Parks, Golf Courses, Cemeteries, Etc.) - Good Condition (Grass Cover > 75%)	0.11	D	80	0.500	0.80	320
TOTAL (ACRES):		11.06			TOTAL (CF):	41,621

NET CHANGE IN VOLUME TO MANAGE (CF):

Separate
CN's

13,320 c.f.



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Turnpike forebay at
Sideling Hill service
plaza.

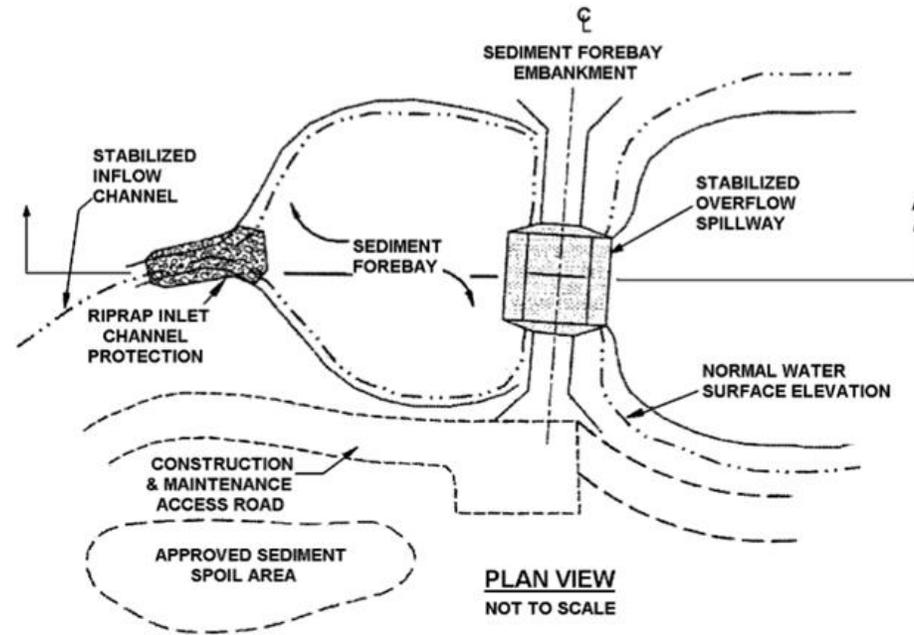
Note pavers,
plantings, soil mix.



Forebays reduce flow velocity, allowing sediment and debris to settle.

- Forebays should be located at “major inflow” locations to an SCM
- Major inflows are those receiving flow from more than ¼ acre of impervious surface, or more than 1.5 acres of pervious surface
- Forebay volume for general detention basins: 10 to 15% of the volume of the 2year, 24 hour storm
- Forebay volume for infiltration SCMs: 15% of the managed volume for a drainage area < 20,000 s.f. and 25% of the managed volume for a drainage area > 20,000 s.f.

Forebays help prolong the life of a stormwater control measure



- Length to width ratio of a forebay– 2:1 or greater
- Keep flow velocity in a forebay under 2 feet per second
- Forebays should dewater in less than 72 hours

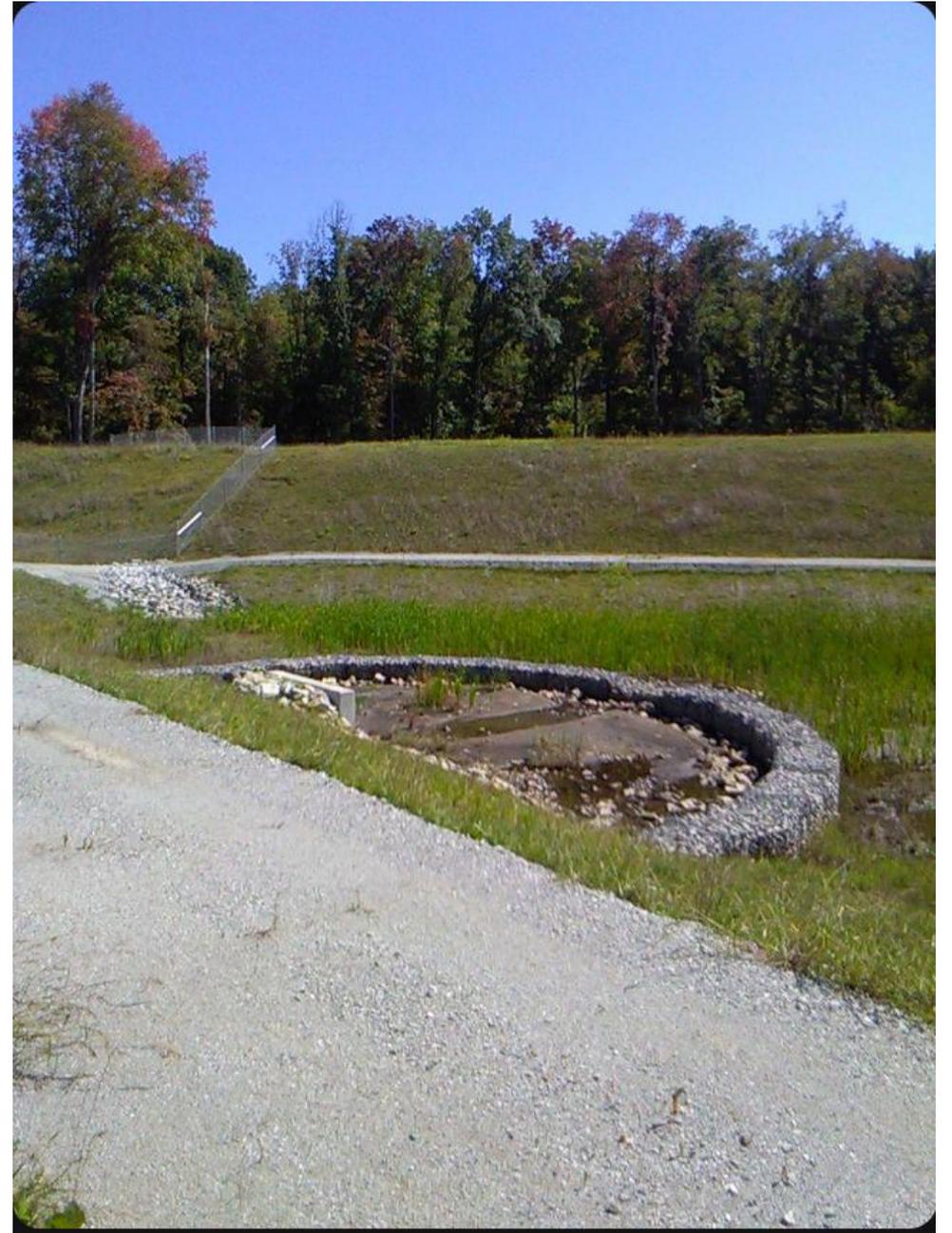
Use of a Forebay as MRC pre-treatment

- If the maximum flow routed to the MRC SCM is < 2 year, 24 hours, a forebay is not needed but can be used.
- If the maximum flow routed to the MRC SCM is > 2 year, 24 hours, a forebay is required.
- The volume standard for an MRC forebay is 0.25 inches of runoff per equivalent impervious acre.
- Depth of the MRC forebay should be at least 1.5 feet to allow for sediment to settle

PennDOT forebay along I-70



Forebays must be maintained!

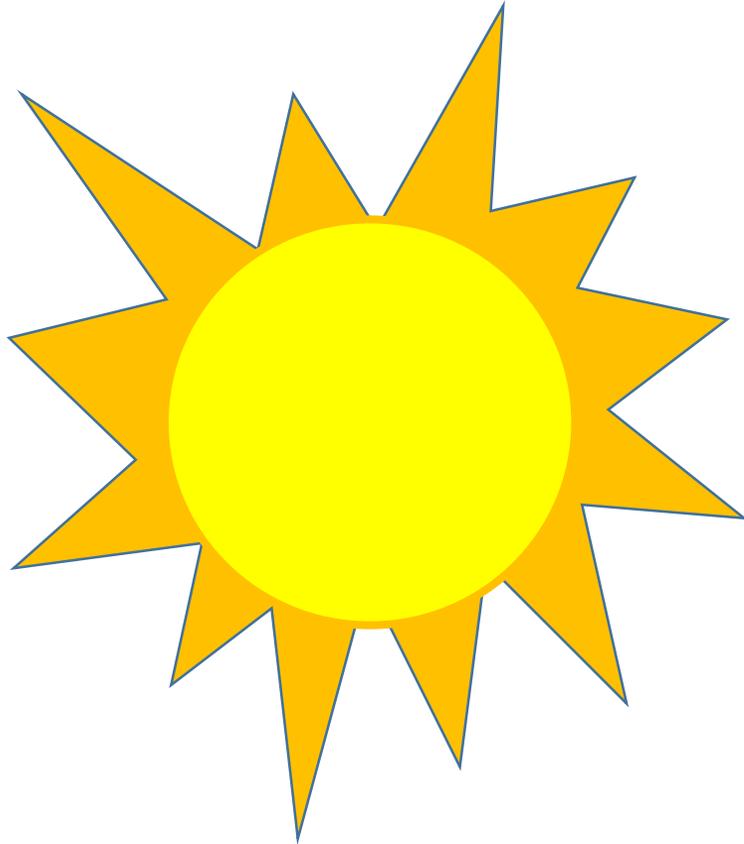




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Solar panel farms



Chapter 102 Permitting for Solar Panel Projects

Frequently Asked Questions (FAQ)
Revised, February 19, 2026
Version 1.3

Background

Responsible development of solar photovoltaic installations (solar panel projects) involves balancing the growth of this industry in Pennsylvania with the need to protect natural resources and manage stormwater runoff. This FAQ document was developed to clarify the Department of Environmental Protection's (DEP's) interpretations concerning applicability and implementation of National Pollutant Discharge Elimination System (NPDES) permits for stormwater discharges associated with construction activities, including erosion and sediment control (E&S) and post-construction stormwater management (PCSM), for solar panel projects. This document provides recommended guidance for ground level solar projects with at least one (1) acre of earth disturbance. References to additional guidance are found in [Attachment A](#).

Nothing in this document affects regulatory requirements. The interpretations herein are not an adjudication or a regulation. There is no intent on the part of DEP to give the interpretations in this document that weight or deference. This document provides a framework within which DEP and delegated county conservation districts (CCDs) will exercise administrative discretion in the future. DEP reserves the discretion to deviate from the interpretations in this document if circumstances warrant.

For additional information on solar energy, visit DEP's [Solar Energy Resource Hub](#).

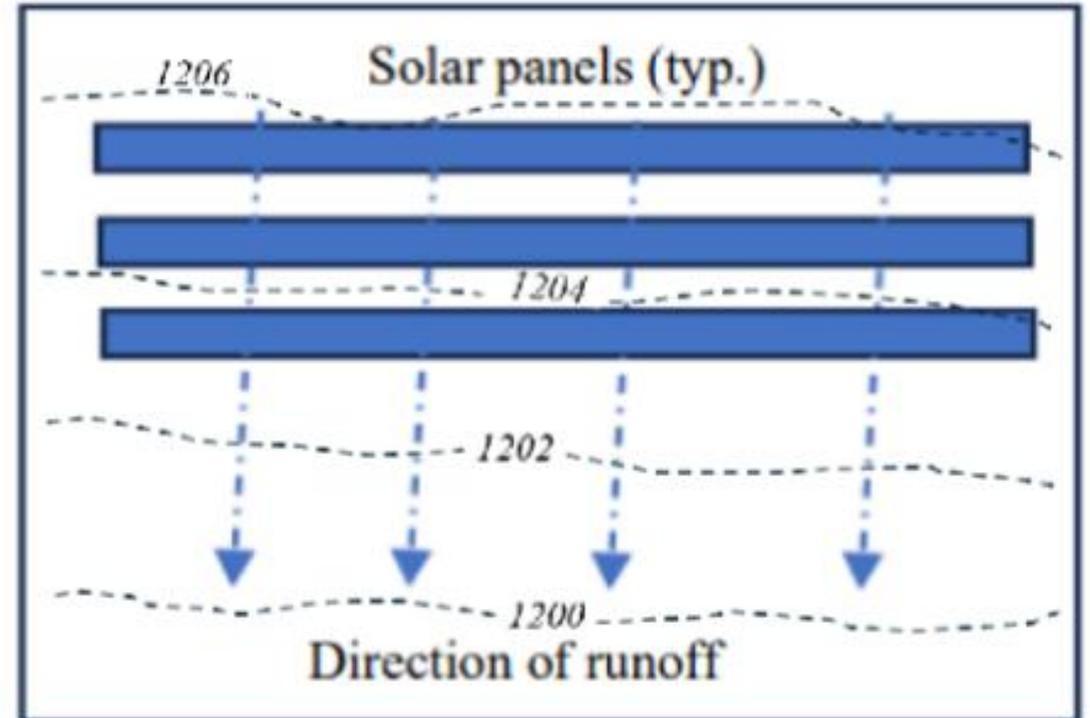
Earth Disturbance during Solar Panel installation

- Access roads
- Laydown areas
- Cut and fill in cases where the slope is steep
- Removal of trees & vegetation
- Connection to Utility
- Stormwater SCMs



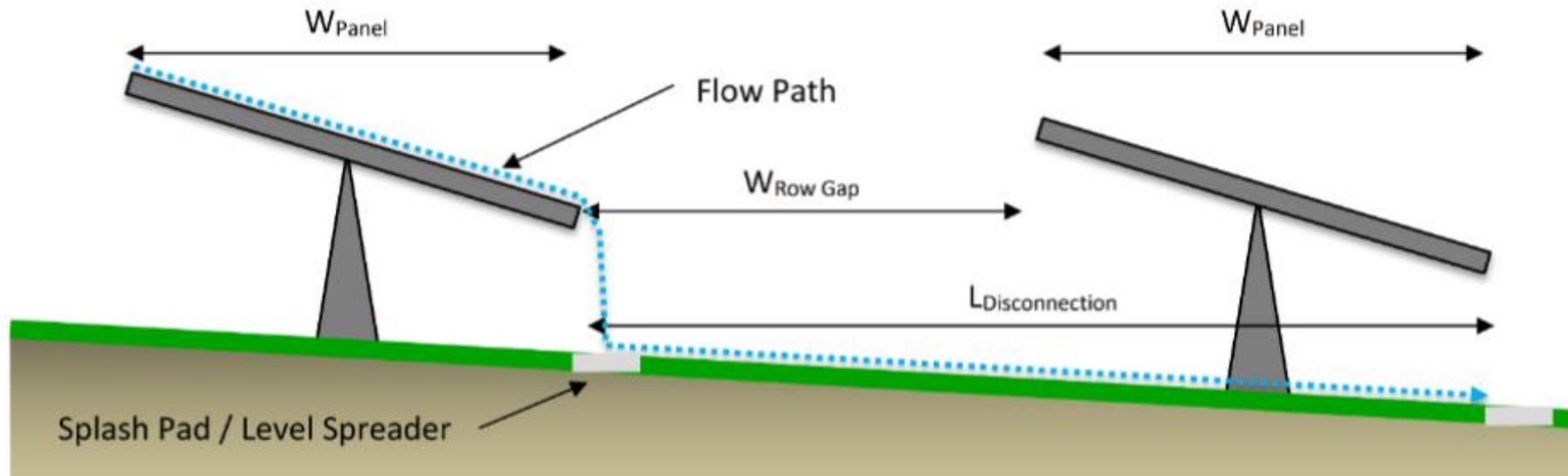
Stormwater management and solar panel farms: general

- Minimize earth disturbance
- Drip edge vegetation below the panels
- Panels follow the contours of the land
- Good vegetation established
- Utility connections



Goal: The gap between rows of panels should be equal to or greater than the width of the panels themselves

Figure 4.B: Schematic Profile of Solar Panel Array Providing Impervious Area Disconnection



Source: [Ohio EPA](#), April 2022

Solar Panel farm: is it *Site Restoration*?

- Protect water bodies
- Panels on the contour
- 90% perennial vegetative cover beneath
- Distance between panels
- Ground slope < 10%
- Protect soil from compaction



Chapter 102 Site Restoration Projects

Frequently Asked Questions (FAQ)

August 15, 2023

Revised, September 8, 2023

Version 1.1

If your solar panel project is **not** Site Restoration

- Certain portions of a site may qualify while others do not
- Panels are not located on the contour
- Ground slope is $> 10\%$



If your solar panel farm, or a portion of it, does not meet Site Restoration criteria in the FAQ, then you should use the University of Minnesota’s PV-SMaRT tool to calculate a Curve Number for the site

Figure 5.B: PV-SMaRT Tool

Soil Texture	Silt Loam	***BLUE CELLS REQUIRE USER INPUT***	
Soil Depth (inches)	20	***MAROON CELLS REPRESENT TOOL OUTPUTS***	
Bulk Density (g/cm ³)	1.3		
Vegetation Present	Turf Grass	Runoff Curve Number	91.8
Are Solar Panels Present?	YES	24-Hr Precip Event (inches)	3.24
Panel Width (feet)	15	Expected Runoff (inches)	2.37
Panel Spacing (feet)	15		
Array Orientation	Combination		
Percent Slope	10		

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Use the results from the PV-SMaRT tool in the PCSM spreadsheet

Pre-Construction Conditions:

No. Rows:

Exempt from Meadow in Good Condition Automatically Calculate CN, Ia, Runoff and Volume

Land Cover	Area (acres)	Soil Group	CN	Ia (in)	Q Runoff (in)	Runoff Volume (cf)
Row Crop (Contoured, Good Management)	5.95	N/A	76		1.04	22,462

TOTAL (ACRES): 5.95

TOTAL (CF): 22,462

Post-Construction Conditions:

No. Rows:

Land Cover	Area (acres)	Soil Group	CN	Ia (in)	Q Runoff (in)	Runoff Volume (cf)
Solar Panels with Newly Established Pollinator	5.95	N/A	83		1.45	31,318

TOTAL (ACRES): 5.95

TOTAL (CF): 31,318

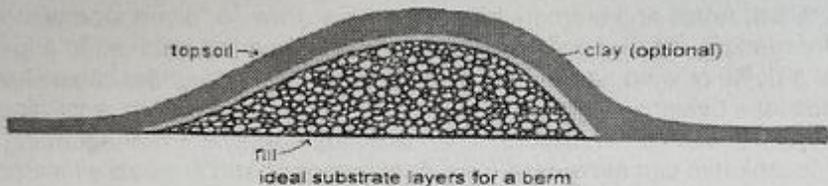
NET CHANGE IN VOLUME TO MANAGE (CF):

Use BMP 6.4.10, Infiltration Berm and Retentive Grading

DEP recommends this stormwater control measure for solar panel farms.

Pennsylvania Stormwater Best Management Practices Manual Chapter 6

BMP 6.4.10: Infiltration Berm & Retentive Grading



An Infiltration Berm is a mound of compacted earth with sloping sides that is usually located along a contour on relatively gently sloping sites. Berms can also be created through excavation/removal of upslope material, effectively creating a Berm with the original grade. Berms may serve various stormwater drainage functions including: creating a barrier to flow, retaining flow and allowing infiltration for volume control, and directing flows. Grading may be designed in some cases to prevent rather than promote stormwater flows, through creation of "saucers" or "lips" in site yard areas where temporary retention of stormwater does not interfere with use.

<u>Key Design Elements</u>	<u>Potential Applications</u>
<ul style="list-style-type: none">• Maintain a minimum 2-foot separation to bedrock and seasonally high water table, provide distributed infiltration area (5:1 impervious area to infiltration area - maximum), site on natural, uncompacted soils with acceptable infiltration capacity, and follow other guidelines described in Protocol 2: Infiltration Systems Guidelines• Berms should be relatively low, preferably no more than 24 inches in height	Residential: Yes Commercial: Yes Ultra Urban: Limited Industrial: Yes Retrofit: Yes Highway/Road: Yes
	<u>Stormwater Functions</u>



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Flow Splitters

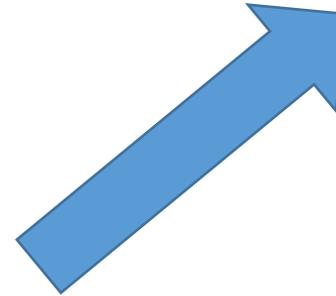
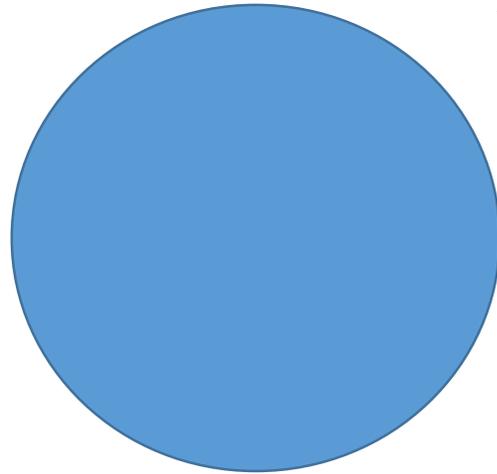
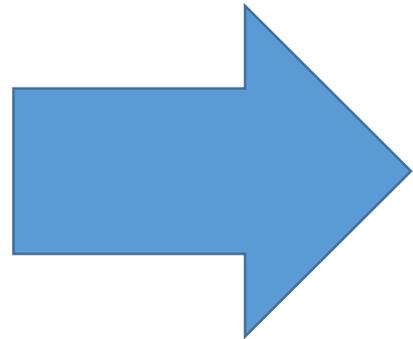
- Used to prevent overloading of an infiltration SCM or an MRC SCM
- Generally, route flow less than or equal to the 2 year 24 hour storm to the water quality SCM
- Higher flows directed to the rate control SCM
- Be aware of depths, backwater, tributary areas
- Be aware of debris

Flow Splitter

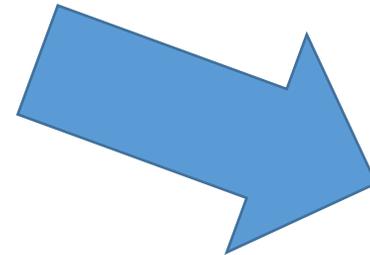


Flow splitter schematic

Flow into FS
from site
runoff



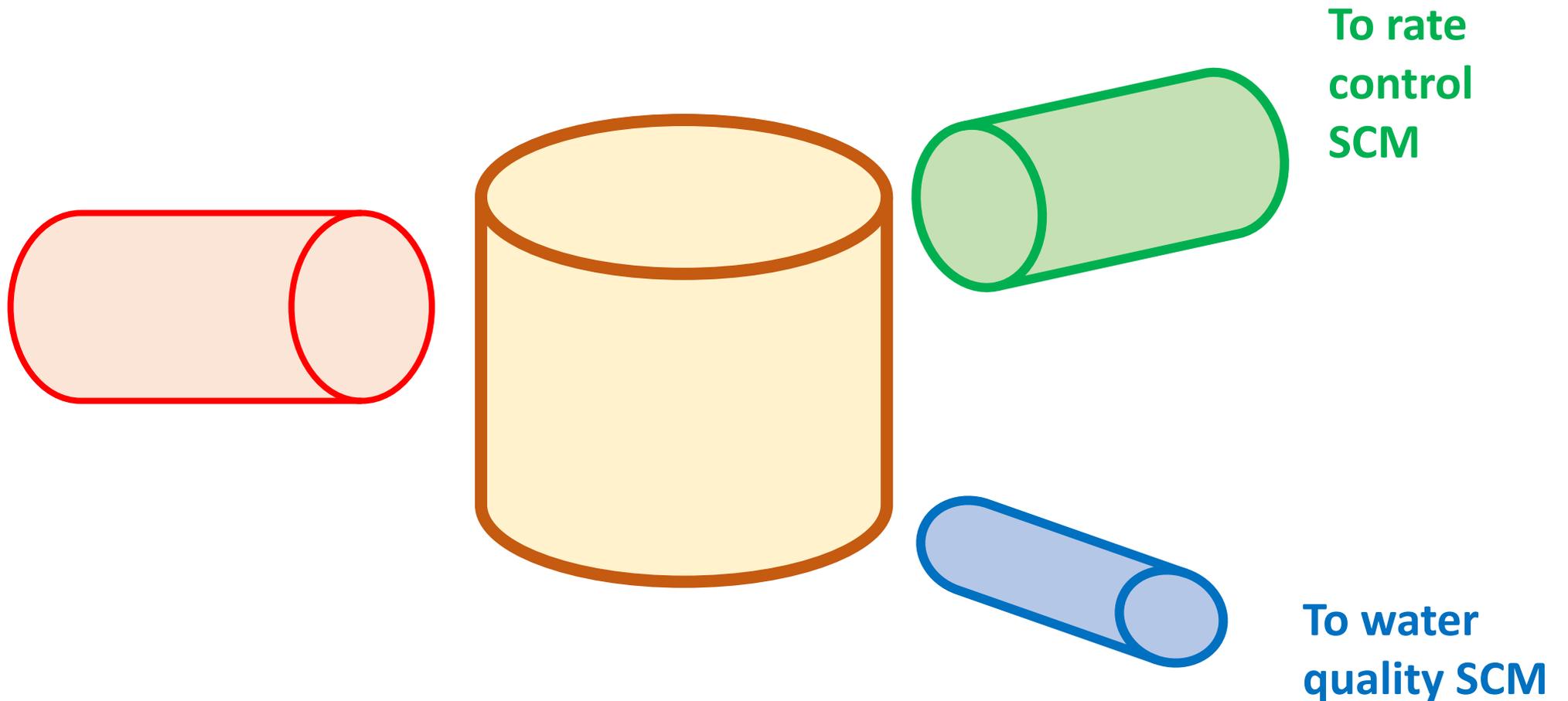
Flow to
water quality
SCM



Flow to
rate
control
SCM

How to control flow: Pipes come in, Pipes go out

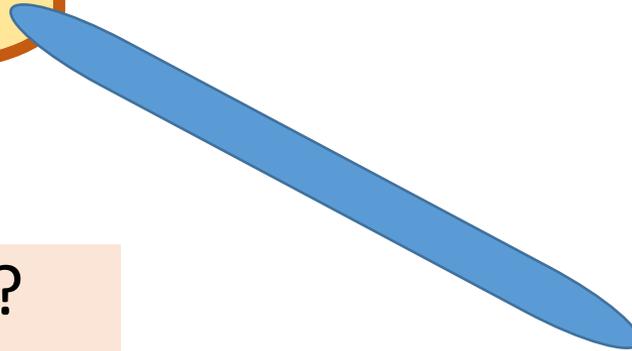
Using elevation and pipe size to control flow:



The problem with relying on pipe size alone:



MH elevation 100



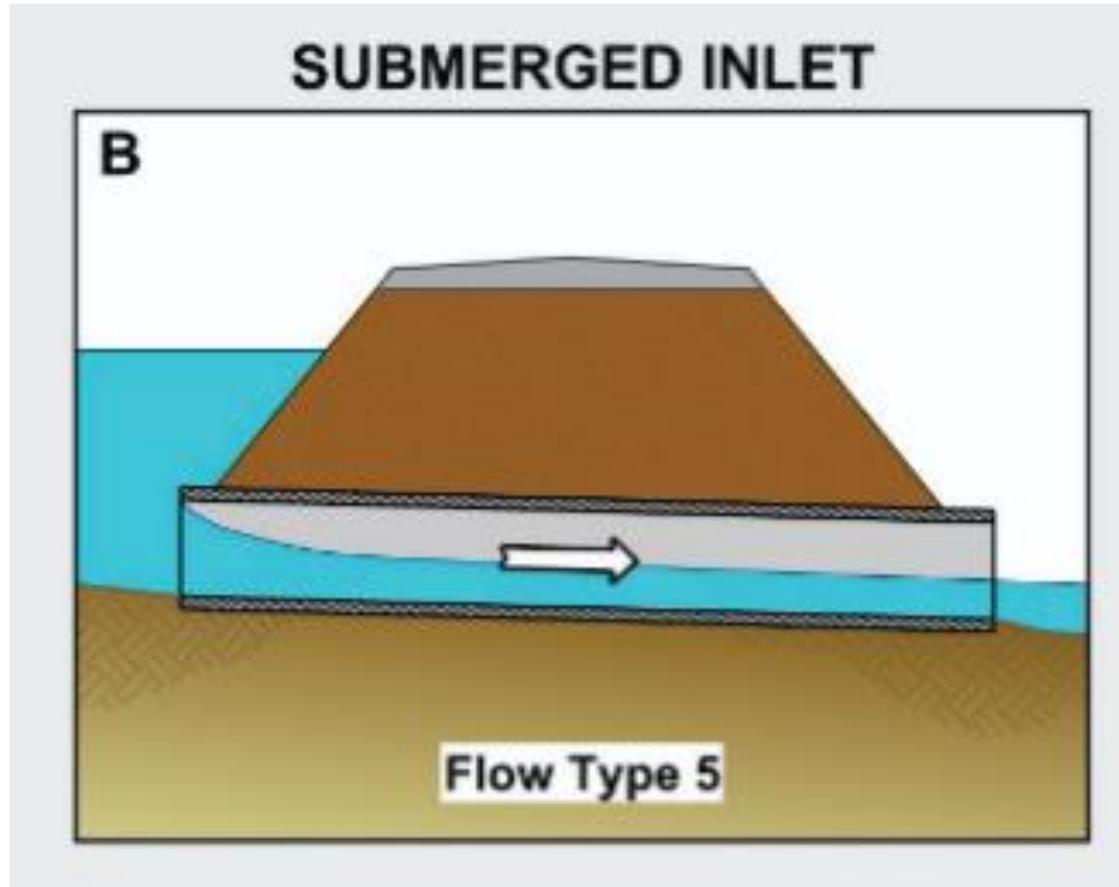
MRC elevation 90



How can you shut off the flow?

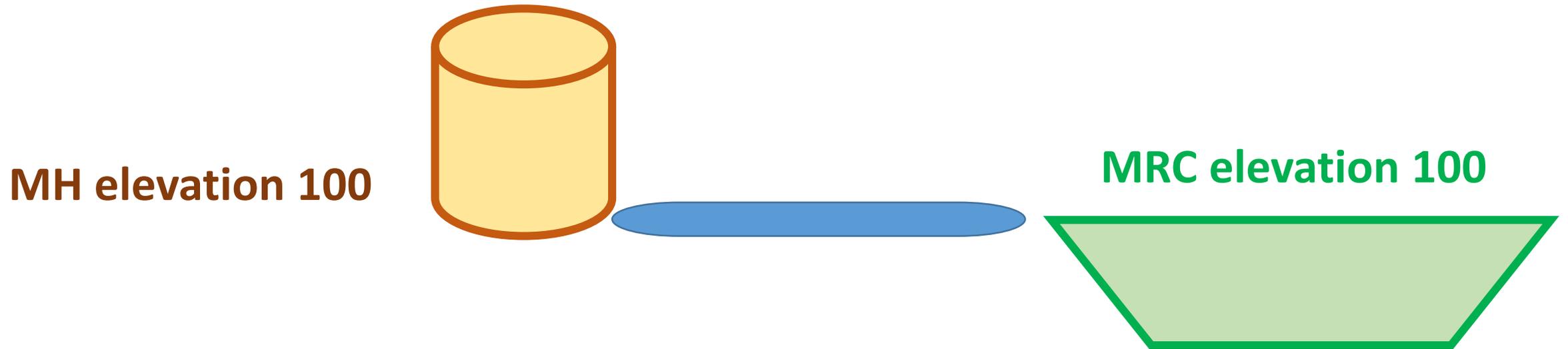
Orifice equation shows how much water enters the pipe

$$Q = C_d A \sqrt{2gh}$$



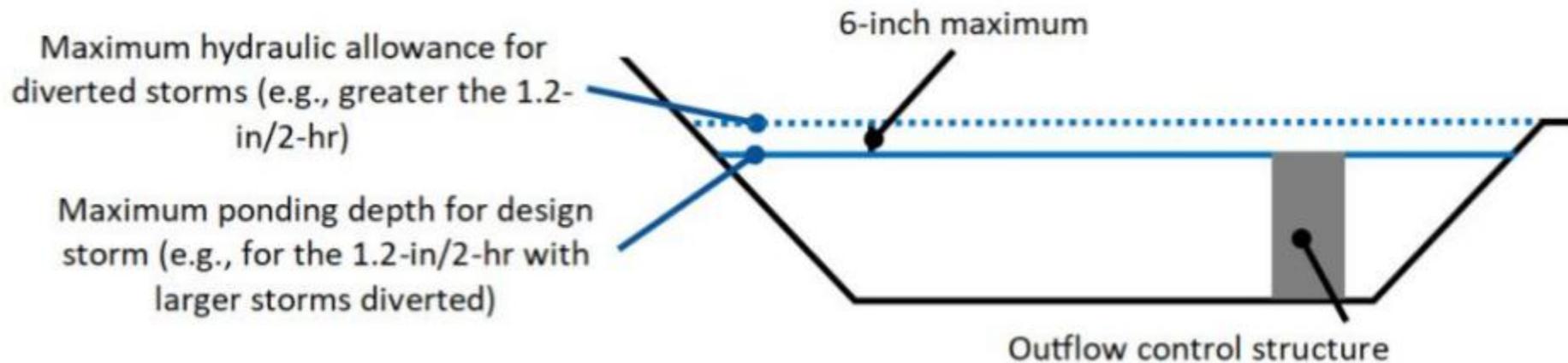
As depth (h) increases, flow (Q) increases—there's no way to stop it

Tailwater: the only practical way to shut off the flow.



Your hydraulics and hydrology computer program ought to be able to model the manhole and the MRC device

PA DEP guidance allows a six inch variance in the depth of water in an MRC, for the purposes of diverting flows from larger storms.



See PA DEP MRC
FAQ # 41



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Notice to new property owners

As the engineer, you may be involved in filling out this form or providing info to property purchasers

3800-FM-BCW0271i Rev. 4/2025

Notification Form



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

NOTICE TO NEW PROPERTY OWNERS OF PCSM SCMs AND O&M REQUIREMENTS “NEW PROPERTY OWNER NOTIFICATION FORM”

The property that you are purchasing or that you own contains one or more post-construction stormwater management (PCSM) stormwater control measures (SCMs) that require long-term operation and maintenance (O&M) to continue performing their intended functions. The long-term O&M requirements have been recorded as part of a covenant that affects this property. You have the right to enter into an agreement with a third party to perform long-term O&M. Note – Completion of long-term O&M may be enforced by your municipality under the terms of local ordinances.

PROJECT SITE INFORMATION

Project Site Name: _____ Permit No.: _____
Permittee Name: _____ Date of Sale: _____
Will the sale of property also include a transfer of the Chapter 102 permit? Yes No

PROPERTY CONTAINING PCSM SCM(s)

Municipality: _____ County: _____
Plot Book Volume: _____ Page: _____
Tax Parcel # / UPI: _____ Owner: _____
Address: _____ Phone: _____
City, State, ZIP: _____ Email: _____

PCSM SCM INFORMATION

Name / Description of SCM: _____
Location of SCM on Property: _____
Describe Access to SCM: _____
Impervious Area Treated: _____ acre(s) _____ square feet

The PCSM SCM has been identified in a legal instrument that has been recorded with the County Recorder of Deeds.

Notification to Municipalities concerning discharges to MS4 and combined sewer

3800-FM-BCW0271f Rev. 3/2024
MS4/CSS Notification Form



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

NOTIFICATION OF PROPOSED STORMWATER DISCHARGES TO MS4s AND CSSs FOR CHAPTER 102 PERMITS

GENERAL INFORMATION (COMPLETED BY APPLICANT)

Applicant Name: _____ Contact Name: _____
 Applicant Address: _____ Contact Phone: _____
 Applicant City, State, ZIP: _____ County: _____
 Project Site Name: _____ Municipality: _____

SEWER SYSTEM AND DISCHARGE INFORMATION (COMPLETED BY APPLICANT)

Stormwater will be discharged to a(n): MS4 CSS During Construction After Construction

Name of MS4 or CSS Owner: _____ Discharge Point ID: _____

Proposed Change(s) in Stormwater Runoff **Peak Discharge Rate** (cfs): No Change

Increase @ 2-yr _____ 10-yr _____ 50-yr _____ 100-yr _____

Decrease @ 2-yr _____ 10-yr _____ 50-yr _____ 100-yr _____

Proposed Change in Stormwater Runoff **Volume** up to the 2-year/24-hour storm (CF): No Change

Increase _____ Decrease _____

Proposed Change in Stormwater **Quality (Pollutant Loads)** up to the 2-year/24-hour storm (lbs): No Change

Construction certification

This is why you need to be present on site for the Critical Stages

Chapter 102 SCM Construction Certification Form

General Project and SCM Information

Project Site Name:	_____	Permit No.:	_____
Permittee Name:	_____	Expiration Date:	_____
SCM Name:	_____	SCM ID No.:	_____
Designer Name:	_____	Municipality:	_____
Designer Firm:	_____	County:	_____
Recording Date:	_____	SCM Latitude:	_____
Drainage Area:	_____ acres	SCM Longitude:	_____
Impervious Area:	_____ acres	Date Complete:	_____
<input type="checkbox"/> New SCM		<input type="checkbox"/> Modified SCM	
Person(s) responsible for long-term O&M: _____			

Report all inspections of the SCM and provide the information requested in the table below or as an attachment.

Inspection Date	Critical Stage(s)	Inspector Name	Inspector Firm

Construction Information

Photographs of each critical stage with date/time stamps and appropriate captions are attached (**required**).

Explain any deviations made during construction in comparison to the approved PCSM Plan and if the deviations were approved by DEP/CCD.

Any Questions?

Westmoreland
Conservation
District

