Chapter 102 Permitting Updates

Ellen Enslin, CPESC (Pike CCD)

Bob Jevin, P.E. (DEP-NERO)

Pam Kania, P.E. (DEP-NERO)

Drew Wagner, CPSWQ, P.E (Monroe CCD)

Monroe County Conservation District

Pike County Conservation District

Learning Objectives

- Introduce the **DRAFT** PAG-01 permit
- Discuss the major changes to PAG-02
  - Eligibility
  - Expiration
  - Training
  - Standards for Best Management Practices (BMPs)

Monroe County Conservation District

Pike County Conservation District

Proposed PAG-01

- Applies to projects proposing **earth disturbance** of more than one acre but less than five acres
- Simplify preparation and reviews of Post Construction Stormwater Management (PCSM) plans for small projects
- Limit areas of Impervious Surfaces
- Sustainable green solutions (disconnection practices)

Monroe County Conservation District

Pike County Conservation District

Potential Eligibility Requirements

(not comprehensive):

- Not eligible in Special Protection waters
- Discharges to combined sewer systems are not eligible
- Projects must be on the same or contiguous tax parcels (except off-site support activities)
- No runoff from off-site impervious areas may flow onto the project site

requirements may be different in final version of PAG-01

Monroe County Conservation District

Pike County Conservation District

PAG-02

Monroe County Conservation District

Pike County Conservation District

Major Changes in PAG-02

- Expiration of coverage
- Permittee assurance of personnel training
- Prohibition of certain discharges
- E&S and PCSM Plan design modules
- Contaminated/Regulated Fill

Monroe County Conservation District

Pike County Conservation District

PAG-02 Expiration of Coverage

- 2017 PAG-02:
  - Coverage granted for five (5) years
  - Had to renew coverage end of that five (5) years
- 2019 PAG-02:
  - Coverage will be granted until December 7, 2024

Monroe County Conservation District

Pike County Conservation District

PAG-02 Required Training

- 2017 PAG-02:
  - No specific training requirements identified in permit

- 2019 PAG-02:
  - Permittee is responsible for ensuring that **all personnel conducting work on the project site relating to earth disturbance** are aware of, understand, and have adequate qualification and training to carry out earth disturbance activities

Monroe County Conservation District

Pike County Conservation District

PAG-02 Prohibition of Certain Discharges

- 2017 PAG-02 – Impaired Waters:
  - No net change in volume, rate or water quality for impaired waters unless analysis demonstrates discharge will not cause or contribute to impairment
- 2019 PAG-02 – Impaired Waters:
  - Non-discharge alternatives or Anti-degradation Best Available Combination of Technology (ABACTs) BMPs must be implemented to waters impaired for siltation, suspended solids, turbidity, water/flow variability, flow modifications/alterations or nutrients

Monroe County Conservation District

Pike County Conservation District

PAG-02 Prohibition of Certain Discharges

- 2017 PAG-02 – Total Maximum Daily Load(TMDL) Waters:
  - E&S and PCSM Plans must include implementation measures consistent with TMDL
- 2019 PAG-02 – TMDL Waters:
  - Non-discharge alternatives or ABACT BMPs must be implemented to waters impaired for siltation, suspended solids or nutrients, and Waste Load Allocation (WLAs) must be met, if applicable

Monroe County Conservation District

Pike County Conservation District

ABACT BMPs

- All projects in the Chesapeake Bay watershed will need to propose non-discharge or ABACT BMPs for E&S and PCSM – PAG-02 only
- Not required for current PAG-02 coverage unless there is a major amendment for increased earth disturbance.

Monroe County Conservation District

Pike County Conservation District

E&S and PCSM Plan Design Modules

- 2017 PAG-02:
  - No templates but detailed checklists

- 2019 PAG-02:
  - E&S and PCSM Modules that will serve as the narrative components of E&S and PCSM Plans (detailed checklists eliminated)

Monroe County Conservation District

Pike County Conservation District

PAG-02 and Contaminated/ Regulated Fill

- May be revised in near future
- Soils are considered contaminated if pollutant concentrations exceed residential or non-residential medium specific concentrations (MSCs) for residential or non-residential sites, respectively (Chapter 250, Appendix A)
- Disturbance of these soils cannot be done under PAG-02 unless a site-specific standard has been met or the applicant provides documentation of naturally occurring contamination.

Monroe County Conservation District

Pike County Conservation District

Overview

- Carefully review the changes within the 2019 PAG-02
- Expiration date of December 7, 2024
- Read the NOI instructions, FAQ document and provided DEP guidance

Monroe County Conservation District

Pike County Conservation District

PAG-02 and Individual Permits

Monroe County Conservation District

Pike County Conservation District

Learning Objectives

- Learn about new procedures and concepts in permitting
- Identify new forms
- Learn how to complete the new forms
- Discuss the PCSM Spreadsheet and identify when it should be used

Monroe County Conservation District

Pike County Conservation District

New Procedures in Permitting

- PAG-02 NOI and IP application can be used for any application type, except Transfer.

GENERAL INFORMATION					
1. NOI Type:	☐ New	☐ Renewal	☐ Major Amendment	☐ Minor Amendment	Permit No. PA_____

- New Permit Coverage-Instructions will guide applicant on what is required
- A copy of NOI/Individual Permit application form and General Information Form (GIF) for IPs is required to be submitted to DEP Regional Office prior to submittal (do not send plans)
- (New)Major Amendments-any new information must be presented in **bold text**

Monroe County Conservation District

Pike County Conservation District

New Procedures in Permitting

- PCSM / E&S Plan Revision date blocks
  - Title/cover sheet should show the most current revision date.
- Renewals-applicant must submit:
  - NOI/Application with general information, applicant information, eligibility information and the compliance history and certification sections completed
  - Letter certifying no revisions to the approved E&S or PCSM plans are being made which streamlines reviews
- If changes are proposed, the appropriate amendment box should be checked. Refer to DEP guidance document on amendments. (major amendments do not extend the permit term)
- Major amendment and renewal on IP = new 5-year term

Monroe County Conservation District

Pike County Conservation District

New Procedures in Permitting

- Implementation of Permit Conditions
  - PAG-02 (Part C XV.D) and IP
    - A training log must be kept on-site and made available upon request from EPA, DEP, or CCD staff.
    - Training log = communication log

Monroe County Conservation District

Pike County Conservation District

Municipal and County Notifications

- New Forms
- Forms have signature area for applicant and county/municipality
- Send a copy of the instructions with the form
- Acceptable for application completeness
  - Form signed by applicant and proof of receipt by county/municipality

  OR
  - Form signed by applicant and county/municipality representatives

Monroe County Conservation District

Pike County Conservation District

Standard Operating Procedures

- Fees (including CCD-specific fees) must be resolved prior to considering an NOI for completeness (Section III)
- Minor Deficiencies: If the 1st completeness review comments are minor such that they may be addressed in two (2) working days CCD/DEP may call to notify you of the deficiencies to see if you can get them resolved in two days. We may also follow up with an email.
- If completeness comments are not of a minor nature, a completeness letter will be sent. There will only be **one** written incompleteness letter per submittal.
- Completeness notification letters may now be sent via email instead of regular mail.

Monroe County Conservation District

Pike County Conservation District

Ineligible / Denial / Withdrawal

- Ineligible
  - DEP disturbed acre fees not refunded
- Denial
  - Occurs after resubmittal of deficient information
  - DEP disturbed acre fees are not refunded and cannot be reused upon resubmittal
- Withdrawal
  - Fees not refunded; however, DEP disturbed acre fee can be used for resubmittal of the exact same project

Monroe County Conservation District

Pike County Conservation District

Review and Response Timeframes

Type of Permit	District Completeness Review	Response Due by applicant	District Technical Review	Response Due by applicant	Minor Deficiencies
PAG-02 (old)	15 Business days	60 calendar days (possible extension 60 days)	22 business days	60 calendar days (possible extension 60 days)	
PAG-02 (new)	15 business days	60 calendar days (possible extension 30 days)	22 business days	30 calendar days (possible extension 15 days)	2 business days
Individual (old)	15 business days	60 calendar days (possible extension 60 days)	47 business days	60 calendar days (possible extension 60 days)	
Individual (new)	15 business days	60 calendar days (possible extension 30 days)	47 business days	30 calendar days (possible extension 30 days)	2 business days

Monroe County Conservation District

Pike County Conservation District

Pre-Application Meeting

- Highly recommended
- (NEW) Complete a Pre-Application Meeting Request Form
  - Include plan, location map and detailed description of project
- Utilize Permit Application Consultation Tool (PACT) on DEP website to aid in permit coordination

Monroe County Conservation District

Pike County Conservation District

PAG-02 Notice of Intent (NOI) & Individual NPDES Permit Application

- (New) Broken into two separate forms, December 8, 2019
- **Please read the instructions and Standard Operating Procedures provided**
- Instructions not only explain how to complete the NOI/application but also provide program clarification and guidance
- (New) Modules are utilized. Some common, some unique to NOI/application (more on this later)

Monroe County Conservation District

Pike County Conservation District

NOI / Application

Applicant Information Section

PAG-02 NOI Only

APPLICANT INFORMATION				
1. Organization Name or Registered Fictitious Name		2. Employer ID# (EIN)		
3. Individual Last Name	First Name		MI	Suffix
4. Mailing Address Line 1		Mailing Address Line 2		
5. Address Last Line – City	State		ZIP+4	Country
6. Applicant Contact Last Name	First Name		MI	Suffix
7. Applicant Contact Title	8. Phone	Ext		
9. Email Address	10. FAX			
11. Ownership: Government: ☐ Federal ☐ State ☐ County ☐ Municipal ☐ School District ☐ Non-Government ☐ Mixed (Public/Private)				

NOI / Application

Eligibility Information Section

PAG-02 NOI Only

ELIGIBILITY INFORMATION		
1. Stormwater discharges from the project site will not drain to surface waters, including wetlands, that are classified for special protection.	☐ True	☐ False
2. The applicant is not in violation of any DEP or EPA enforceable document, including any permit, schedule of compliance, consent assessment of civil penalty, or order at the project site or other sites or facilities owned or operated by the applicant in Pennsylvania, and has not shown a lack of ability or intention to comply with laws administered by DEP or EPA as indicated by past or continuing violations.	☐ True	☐ False
4. The PNDI receipt indicates either 1) "No Impact", or 2) "Conservation Measures", or 3) "Avoidance Measures" that have been agreed to by the applicant, or 4) "Potential Impact" or "Avoidance Measures" not agreed to by the applicant but clearance letters from jurisdictional agencies are attached to the NOI or otherwise will be submitted prior to General Permit coverage.	☐ True	☐ False
5. Soils in the area of the earth disturbance are not contaminated at levels exceeding residential and non-residential medium-specific concentrations (MSCs) in 25 Pa. Code Chapter 250 at residential and non-residential construction sites, respectively, unless a site-specific standard has been met or evidence is provided of naturally occurring contamination.	☐ True	☐ False
6. Stormwater will not be discharged to MS4 or CSO systems or will be discharged to MS4 or CSO systems with no net change in volume, rate or water quality or will be discharged to MS4 or CSO systems with a net change (increase) and written consent of the MS4 or CSO permittee.	☐ True	☐ False
7. No regulated fill requiring a permit from DEP's Waste Management Program will be imported to, exported from, or otherwise utilized on the project site.	☐ True	☐ False
8. Stormwater discharges will not occur that would contain toxic or hazardous pollutants as defined in sections 307 and 311 of the Clean Water Act (33 U.S.C. §§ 1317 and 1321) or any other substance that – because of its quantity, concentration, or physical, chemical or infectious characteristics – may cause or contribute to an increase in mortality or morbidity in either an individual or the total population, or pose a substantial present or future hazard to human health or the environment when discharged into surface waters.	☐ True	☐ False
9. Stormwater will not be discharged to impaired waters caused by siltation, suspended solids or nutrients or stormwater will be discharged to impaired waters but the Criteria for Discharges to Impaired Waters have been satisfied.	☐ True	☐ False
10. Stormwater will not be discharged to waters with an EPA-approved TMDL for siltation, suspended solids or nutrients or will be discharged to TMDL waters (including the Chesapeake Bay) but the Criteria for Discharges to Impaired Waters have been satisfied and any applicable wasteload allocation (WLA) will be achieved.	☐ True	☐ False

Monroe County Conservation District

Pike County Conservation District

NOI / Application

Existing Permits Section

EXISTING PERMITS			
Identify all environmental permits issued by DEP/CCD or EPA or are pending for this facility/project site within the past 5 years.			
Type of Permit	**Permit No.**	**Date Issued**	**Issued By**

Monroe County Conservation District

Pike County Conservation District

NOI / Application

Project Site Information Section

PROJECT SITE INFORMATION							
1.	Project Site Name		2.	Total Project Site Area			acres
3.	Project Site Impervious Area – Pre-Construction	acres		Percent of Total			%
4.	Project Site Impervious Area – Post-Construction	acres		Percent of Total			%
5.	Hydric soils or other wetland features are present within the Project Site. ☐ Yes ☐ No ☐ If Yes, the wetland determination is attached to the NOI.						
6.	County Name	Municipality Name		City ☐	Boro ☐	Twp ☐	State PA
7.	County Name	Municipality Name		City ☐	Boro ☐	Twp ☐	State PA
8.	Site Location Address						
9.	Site Location City	State	ZIP+4				

Monroe County Conservation District

Pike County Conservation District

NOI / Application

Operator Information Section

OPERATOR INFORMATION	
1. Operator Name: _____	2. Contact Name: _____
3. Operator Address: _____	4. Operator Phone: _____
5. Operator City, State, Zip: _____	
6. Operator's Role in Project: ☐ General Contractor ☐ Consultant ☐ Excavation Contractor ☐ Other	
7. Operator's Responsibilities:	
1. Operator Name: _____	2. Contact Name: _____
3. Operator Address: _____	4. Operator Phone: _____
5. Operator City, State, Zip: _____	
6. Operator's Role in Project: ☐ General Contractor ☐ Consultant ☐ Excavation Contractor ☐ Other	
7. Operator's Responsibilities:	

Monroe County Conservation District

Pike County Conservation District

NOI / Application

Earth Disturbance Information Section

EARTH DISTURBANCE INFORMATION

1. Total Earth Disturbance Area _____ acres _____ sf
2. Pre-Construction Impervious Area: _____ sf
3. Post-Construction Impervious Area: sf
4. Pre-Construction/Present Land Use(s):

_____ %
_____ %
_____ %
_____ %

5. Post-Construction Land Use(s):

_____ %
_____ %
_____ %
_____ %

6. ☐ A map/drawing showing the site, LOD, surface waters, discharge points, BMPs and drainage is attached.
7. Report latitude and longitude at the center of the proposed disturbed area.

   Latitude: _____ Longitude: _____
8. Horizontal Reference Datum: ☐ NAD of 1927 ☐ NAD of 1983 ☐ WGS of 1984 ☐ Unknown
9. There will be off-site construction support activities. ☐ Yes ☐ No
10. If Yes, identify the nature of known off-site support activities whose disturbance is included in #1, above:

Monroe County Conservation District

Pike County Conservation District

NOI / Application

Earth Disturbance Information Section (continued)

Description of Off-Site Support Activity	Distance from Site	Disturbance Area
	mi	acres
	mi	acres

11. Identify any other off-site support activities whose disturbance is not included in #1, above (see instructions).

Description of Off-Site Support Activity	Distance from Site	Disturbance Area
	mi	acres
	mi	acres

12. Check the appropriate box concerning fill material (see instructions):

- ☐ No fill material is expected to be imported to or exported from the project site. On-site materials constitute clean fill.
- ☐ It is expected that fill will be needed for this project. Fill imported to the site will be considered clean fill.
- ☐ It is expected that fill will be exported from the project site. Fill exported from the site will be considered clean fill.

13. The site is enrolled in DEP's Act 2 Program. ☐ Yes ☐ No

14. The site was previously enrolled in DEP's Act 2 Program and cleanup standards have been met. ☐ Yes ☐ No

Monroe County Conservation District

Pike County Conservation District

NOI / Application

Earth Disturbance Information Section (continued)

EARTH DISTURBANCE INFORMATION (CONTINUED)
15. Is Act 537 sewage planning approval needed for this project? ☐ Yes ☐ No
The Act 537 approval letter is attached to the NOI. ☐ Yes ☐ No (will be submitted prior to approval) ☐ N/A
16. A Chapter 105 permit or authorization is required. ☐ Yes ☐ No
17. If Yes, identify the necessary authorization. ☐ Joint Permit ☐ General Permit ☐ Waiver
18. Other DEP/CCD permits or authorizations are required. ☐ Yes ☐ No
19. If Yes, identify the necessary authorizations.

Monroe County Conservation District

Pike County Conservation District

NOI / Application

Compliance History Section

COMPLIANCE HISTORY	
Was/Is the applicant, facility owner or operator in violation of any DEP regulation, permit, order or schedule of compliance at this or any other facility or project site within the past 5 years?	☐ Yes ☐ No
If "Yes," list each permit, order or schedule of compliance and provide current compliance status. Use additional sheets to provide information on all permits.	
Permit Program:	Permit No.:
Brief Description of Non-Compliance:	
Steps Taken to Achieve Compliance	Date(s) Compliance Achieved
Current Compliance Status: ☐ In Compliance ☐ In Non-Compliance	

Monroe County Conservation District

Pike County Conservation District

NOI / Application

Stormwater Discharge Information Section

- Discharge points are all engineered structures, drainageways and areas of concentrated flow where runoff leaves a project site, except for areas of shallow concentrated flow that are controlled by perimeter BMPs. For example, water filtering through a compost sock should not be considered a discharge point.
- Discharge points are not only pipes (i.e., outlets from BMPs) but also include areas where stormwater flows will concentrate by natural means or by design and areas of concentrated flow prior to level spreaders or other diffusion of flows.
- Discharge points may be situated at or near surface waters or at another location, at or prior to the project site boundary.

Monroe County Conservation District

Pike County Conservation District

NOI / Application

Stormwater Discharge Information Section

STORMWATER DISCHARGE INFORMATION

1. List all stormwater discharge points **during construction** and provide the information requested below (see instructions). ☐ Not Applicable

Discharge Point No.	LATITUDE Degrees	LONGITUDE Degrees	RECEIVING WATERS Name of Receiving Waters	Ches. Bay?	Non-Surface Waters	Ch. 93 Class.	Impaired?	TMDL?
				☐	☐		☐	☐
				☐	☐		☐	☐
				☐	☐		☐	☐
				☐	☐		☐	☐
				☐	☐		☐	☐
				☐	☐		☐	☐

2. List all stormwater discharge points **after construction and stabilization are complete** and provide the information requested below. ☐ Not Applicable

Discharge Point No.	LATITUDE Degrees	LONGITUDE Degrees	RECEIVING WATERS Name of Receiving Waters	Ches. Bay?	Non-Surface Waters	Ch. 93 Class.	Impaired?	TMDL?
				☐	☐		☐	☐
				☐	☐		☐	☐
				☐	☐		☐	☐
				☐	☐		☐	☐
				☐	☐		☐	☐
				☐	☐		☐	☐

3. Will any of the points identified above discharge to a storm sewer system? ☐ Yes ☐ No Is the storm sewer an MS4 or CSS? ☐ Yes ☐ No
   Name of storm sewer owner/operator: Discharge points discharging to storm sewer:

4. Identify and describe all non-stormwater discharges that are expected to occur during permit coverage. Describe the frequency and volume of all such discharges.

   ☐ No non-stormwater discharges are anticipated.

5. Will there be any new or increased discharge to non-surface waters prior to reaching surface waters? ☐ Yes ☐ No
   If Yes, the applicant is expected to 1) secure legal authority for the non-surface water discharge if the discharge will be to property not owned by the applicant, and 2) provide for adequate E&S controls to prevent accelerated erosion.

Monroe County Conservation District

Pike County Conservation District

NOI / Application

Stormwater Discharges Information Section (continued PAG-02 NOI Only)

STORMWATER DISCHARGE INFORMATION (CONTINUED)
6. For each discharge to an impaired water (with or without a TMDL, including Ches. Bay) complete the information below. **Discharge Point No.:** Stormwater will be managed using: ☐ Non-discharge alternative ☐ ABACT BMP(s) Description of E&S BMP(s): Description of PCSM BMP(s): WLA(s) in a TMDL apply to this discharge: ☐ Yes ☐ No If Yes, describe how the discharge will comply with the WLA(s):
Discharge Point No.: Stormwater will be managed using: ☐ Non-discharge alternative ☐ ABACT BMP(s) Description of E&S BMP(s): Description of PCSM BMP(s): WLA(s) in a TMDL apply to this discharge: ☐ Yes ☐ No If Yes, describe how the discharge will comply with the WLA(s):

Monroe County Conservation District

Pike County Conservation District

NOI / Application

Discharges to Impaired Waters Section

IP Application Only

DISCHARGES TO IMPAIRED WATERS		
1. Are stormwater discharges anticipated to impaired waters during or following construction activities?	☐ Yes	☐ No
2. If Yes to #1, is Antidegradation Module 3 attached to the application?	☐ Yes	☐ No
3. Is there an EPA-approved TMDL for the impaired waters?	☐ Yes	☐ No
4. If Yes to #3, is there a WLA(s) in the TMDL that would apply to the applicant's discharges?	☐ Yes	☐ No
5. If Yes to #4, explain in the space provided or in a separate attachment how the discharges will comply with the WLA(s).		

Monroe County Conservation District

Pike County Conservation District

NOI / Application

Certification Sections

CERTIFICATION FOR APPLICANTS

I certify under penalty of law and subject to the penalties of 18 Pa. C.S. Section 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 certify that I will abide by the terms and conditions of the permit until the Notice of Termination (NOT) is submitted. I will not commence in construction resulting in earth disturbance until all criteria specified in the permit are met for commencing construction. I will ensure that a licensed professional or a designee is present on-site and be responsible during critical stages of implementation of the PCSM Plan, as applicable. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Applicant Name (type or print legibly) _____ **Official Title** _____

Applicant Signature _____ **Date Signed** _____

CERTIFICATION FOR OPERATORS

I understand that I am assuming joint and severable responsibility, coverage, and liability under the permit for all duties, responsibilities, and non-compliance with the Chapter 102 permit, as a co-permittee of this permit coverage. I certify that I will implement the requirements of the permit and the approved design plans and will notify the permittee and the agency that issued permit coverage prior to implementing changes to the plans.

Operator Name (type or print legibly) _____ **Official Title** _____

Operator Signature _____ **Date Signed** _____

3800-PM-BCW405b Rev. 12/2019
PAG-02 NOI

CERTIFICATION FOR PAG-02 APPLICANTS

I certify under penalty of law that this application and all related attachments were prepared by me or under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my own knowledge and on inquiry of the person or persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. The responsible official's signature also verifies that the activity is eligible to participate in the NPDES permit, and that BMP's, E&S Plan, PPC Plan, PCSM Plan, and other controls are being or will be, implemented to ensure that water quality standards and effluent limits are attained. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment or both for knowing violations pursuant to Section 309(c)(4) of the Clean Water Act and 18 Pa. C.S.A. § 4904.

I grant permission to the agencies responsible for the permitting of this work, or their duly authorized representative to enter the project site for inspection purposes. I will abide by the conditions of the permit if issued and will not begin work prior to permit issuance.

(For individuals no indication of title is necessary, choose the box below. All others proceed to the next paragraph)

☐ **Individual; proceed to signature portion.**

I hereby certify that I am the signatory pursuant to 25 Pa, Code § 92a.22 and 40 CFR §122.22 and that I am the person who is responsible for decision-making regarding environmental compliance functions for Enter Entity name, the manager of one or more manufacturing, production, or operating facilities of the applicant and am authorized to make management decisions which govern the operation of regulated facility including having explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure the applicant's long term environmental compliance with environmental laws and regulations; and I am responsible for ensuring that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements.

(choose one of the following; not applicable for individuals):

☐ The responsible corporate officer ☐ president ☐ vice president ☐ secretary ☐ treasurer of _____ Corporation/Company Entity name

☐ The person either holding a position designated or individually listed on a "Certificate of Limited Liability Company Authority" filed with the Pennsylvania Department of State as a position/person with the authority to bind the company OR the person listed in the LLC's most current and active operating agreement as having the authority to bind the company. Please attach the applicable "Certificate of Limited Liability Company Authority" or operating agreement. If the operating agreement is attached, please identify the page and paragraph containing the applicable information.

☐ The general partner of _____ Entity name partnership/LP/LLP

☐ The principal executive officer or ranking elected official of _____ Entity name Municipality/State/Federal/other public agency

☐ Power of Attorney/delegation of contractual authority (documentation supporting delegation of contracting authority must be provided) for _____ Entity name

Applicant Name (type or print legibly) _____ **Official Title** _____

Applicant Signature _____ **Date Signed** _____

- 7 -

MONROE COUNTY CONSERVATION DISTRICT

Pike County Conservation District

E&S Module 1

- Required for all NOIs / applications
- Serves as the narrative component required for all E&S Plans
- Directions may vary based upon type of NOI/application
- Calculations will likely need to be attached

Monroe County Conservation District

Pike County Conservation District

E&S Module 1

Applicant: _____ Project Site Name: _____

Surface Water Name(s): _____ Surface Water Use(s): _____

E&S PLAN INFORMATION

1. Describe the existing topographic features of the project site and the immediate surrounding area.

2. Complete the following table for soils within the earth disturbance area.

Map Unit Symbol	Map Unit Name	Acres	HSG	% of Disturbed Area	Depth (ft)	Hydric
						☐
						☐
						☐

Discuss any soil limitations and how the E&S Plan was designed to address those limitations.

If Hydric soils are present, is a wetland determination attached to this module? ☐ Yes ☐ No ☐ N/A

If soils are known to be contaminated, 1) identify the pollutants exceeding Act 2 standards in the space provided below, 2) identify the extent of soil contamination on an E&S Plan Drawing that is attached to this module, and 3) describe the methods that will be used to avoid or minimize disturbance of the contaminated soils in the space provided below.

E&S Module 1

3. Describe the characteristics of the earth disturbance activity, including the past, present and proposed land uses and the proposed alteration to the project site.

4. Describe the volume and rate of runoff from the project site and its upstream watershed area.

5. Check boxes to indicate all BMPs that will be installed or implemented, identify plan numbers for the BMPs, and describe any deviations from the E&S Manual.

E&S BMPs	Plan No(s). Identified	Plan No(s). for O&M	Deviation(s) from E&S Manual
☐ Rock Construction Entrance			
☐ Rock Construction Entrance with Wash Rack			
☐ Rumble Pad			
☐ Wheel Wash			
☐ Temporary and Permanent Access Roads			
☐ Waterbar			
☐ Broad-based Dip			

E&S Module 1

For selected BMPs not identified in Table 1, report the name of the BMP and the Figure or Detail No. from the E&S Manual that will be used for design and implementation (PAG-01 only).

BMP Name	E&S Manual Figure/Detail No.	BMP Name	E&S Manual Figure/Detail No.

6. ☐ All applicable Standard E&S Worksheets from Appendix B of the E&S Manual have been completed and are attached.
7. ☐ Other worksheets or calculations equivalent to Appendix B of the E&S Manual have been completed and are attached.
8. Identify the E&S Plan Drawing number(s) that describes the sequence of BMP installation and removal in relation to the scheduling of earth disturbance activities, prior to, during and after earth disturbance activities that ensure the proper functioning of all BMPs.
9. ☐ Supporting E&S calculations have been completed and are available upon request (PAG-01 only).
10. ☐ Supporting E&S calculations are attached to the NOI/application.
11. ☐ Plan drawings consist of standard Figures/Construction Details in E&S Manual (PAG-01 only).
12. ☐ Plan drawings have been developed for the project and are attached to the NOI/application.
13. ☐ BMPs will be inspected on a weekly basis and after measurable storm events (i.e., at least 0.25 inch).

Table 1 is <u>not</u> required for PAG-02 or IP

Monroe County Conservation District

Pike County Conservation District

E&S Module 1

14. Identify the following information relating to temporary stabilization measures on an E&S Plan Drawing and identify the Drawing No. below: 1) vegetative species, 2) % pure live seed, 3) seed application rate, 4) fertilizer type, 5) fertilizer application rate, 6) mulch type, 7) mulching rate, and 8) liming rate.

    E&S Plan Drawing No(s):

15. Identify the following information relating to permanent stabilization measures on an E&S Plan Drawing and identify the Drawing No. below: 1) vegetative species, 2) % pure live seed, 3) seed application rate, 4) fertilizer type, 5) fertilizer application rate, 6) mulch type, 7) mulching rate, 8) liming rate, 9) anchor material, 10) anchoring method, 11) rate of anchor material application, 12) topsoil placement depth, and 13) seeding season dates.

    E&S Plan Drawing No(s):

16. Describe the procedures that will be taken to ensure that recycling or disposal of materials associated with or from the project site will be conducted properly.

17. Identify the presence of any naturally occurring geologic formations or soil conditions that may have the potential to cause pollution during earth disturbance activities. If such formations or conditions exist, identify BMPs that will be implemented to avoid or minimize potential pollution.

18. Identify whether the potential exists for thermal impacts to surface waters from the earth disturbance activity. If such potential exists, identify BMPs that will be implemented to avoid, minimize or mitigate potential thermal impacts.

E&S Module 1

19. ☐ The E&S Plan has been planned, designed and will be implemented to be consistent with the PCSM Plan.

20. If applicable, identify existing and proposed riparian forest buffers on E&S and PCSM Plan Drawings and identify the Drawing No(s) below (select N/A if not applicable).

E&S Plan Drawing No(s): ☐ N/A

PCSM Plan Drawing No(s):

E&S PLAN DEVELOPER

☐ I am trained and experienced in E&S control methods. ☐ I am a licensed professional.

Name:		Title:	
Company:		Phone No.:	
Address:		Email:	
City, State, Zip:		License No.:	
License Type:		Exp. Date:	

E&S Plan Developer Signature **Date**

Monroe County Conservation District

Pike County Conservation District

PCSM Module 2

- Required for all NOIs / applications
- Serves as the narrative component required for all PCSM Plans
- Directions may vary based upon type of NOI/application
- Information provided in Module 1 does not have to be repeated.

Monroe County Conservation District

Pike County Conservation District

PCSM Module 2

Applicant: Project Site Name:

Surface Water Name(s): Surface Water Use(s):

PCSM PLAN INFORMATION

1. Identify all structural and non-structural PCSM BMPs that have been selected and provide the information requested.

Discharge Point(s)	BMP ID	BMP Name	BMP Manual	Latitude	Longitude	DA Treated (ac)

Undetained Areas: acre(s)

☐ The Project Qualifies as a Site Restoration Project (25 Pa. Code §102.8(n))

Monroe County Conservation District

Pike County Conservation District

PCSM Module 2

2. Describe the sequence of PCSM BMP implementation in relation to earth disturbance activities and a schedule of inspections for the critical stages of PCSM BMP installation.

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.

5. ☐ 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.

PCSM Module 2

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.
8.	☐ The PCSM Plan has been planned, designed and will be implemented to be consistent with the E&S Plan.
9.	☐ A pre-development site characterization has been performed.

Monroe County Conservation District

Pike County Conservation District

PCSM Module 2

STORMWATER ANALYSIS – RUNOFF VOLUME

Surface Water Name: **Discharge Point(s):**

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: inches Source of precipitation data:
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)
							☐				
							☐				
							☐				
							☐				
							☐				
							☐				
							☐				
							☐				
							☐				

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):

PCSM Module 2

INFILTRATION INFORMATION	
BMP ID:	☐ 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:	

Monroe County Conservation District

Pike County Conservation District

PCSM Module 2

STORMWATER ANALYSIS – PEAK RATE			
Surface Water Name:		**Discharge Point(s):**	
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	

Monroe County Conservation District

Pike County Conservation District

PCSM Module 2

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			

PCSM Module 2

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

PCSM PLAN DEVELOPER

☐ I am trained and experienced in PCSM methods.

☐ I am a licensed professional.

Name: _____

Company: _____

Address: _____

City, State, Zip: _____

License Type: _____

Title: _____

Phone No.: _____

Email: _____

License No.: _____

Exp. Date _____

_____

PCSM Plan Developer Signature

_____

Date

PCSM Spreadsheet

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

DEP PCSM Spreadsheet
Version 1.5, January 2020

General Information

Instructions | *General* | Volume | Rate | Quality

CLEAR FORM

Project Name: XYZ

Application Type: PAG-02 NOI

County: Monroe

Municipality: Barrett Township

Project Type: Commercial Building

(•) New Project ( ) Minor / Major Amendment

Total Project Site Area: 10.00 acres
(In Watershed)

Total Earth Disturbance: 5.00 acres
(In Watershed)

No. of Post-Construction Discharge Points: 2

Start DP Numbering at: 001

Discharge Point (DP) 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 BMP(s)
001	5.00	2.50	0.00	2.50	Discharge to Non-Surface Waters	CWF	Yes
002	4.00	2.50	0.00	1.00	UNT to Clear Creek	CWF	Yes
Undetained Areas	1.00	0.00					
Totals:	**10.00**	**5.00**					

MONROE COUNTY CONSERVATION DISTRICT

Pike County Conservation District

PCSM Spreadsheet

DEP PCSM Spreadsheet
Version 1.5, January 2020

Volume Management

Project: XYZ

Instructions | General | *Volume* | Rate | Quality

CLEAR FORM

2-Year / 24-Hour Storm Event (NOAA Atlas 14): **3.3** inches

Alternative 2-Year / 24-Hour Storm Event: inches

Alternative Source:

Pre-Construction Conditions: *No. Rows:* **3**

☑ *Automatically Calculate CN, Ia, Runoff and Volume*

Land Cover	Area (acres)	Soil Group	CN	Ia (in)	Q Runoff (in)	Runoff Volume (cf)
Impervious	0.01	B	98	0.041	3.07	111
Impervious as Meadow	0.01	B	58	1.448	0.38	14
Pervious as Meadow	4.98	B	58	1.448	0.38	6,817
	TOTAL (ACRES):	**5.00**			**TOTAL (CF):**	**6,942**

Post-Construction Conditions:

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%)	2.50	B	61	1.279	0.49	4,406
Impervious Areas: Streets and Roads - Paved; Curbs and Storm Sewers (Excluding ROW)	2.50	B	98	0.041	3.07	27,834
	TOTAL (ACRES):	**5.00**			**TOTAL (CF):**	**32,240**

CHANGE IN VOLUME TO MANAGE (CF): **25,299**

PCSM Spreadsheet

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

DEP PCSM Spreadsheet
Version 1.5, January 2020

Volume Management

Project: XYZ

Instructions | General | *Volume* | Rate | Quality

CLEAR FORM

Non-Structural BMP Volume Credits:

- ☐ Pervious Undetained Areas — REDIT (CF):
- ☑ Tree Planting Credit
  - **Number** of new deciduous trees that will be planted within disturbed area: 200 — REDIT (CF): 1,200
  - **Number** of new evergreen trees that will be planted within disturbed area: 200 — REDIT (CF): 2,000
- ☐ Other (attach calculations):
  - Description: — REDIT (CF):

Structural BMP Volume Credits: *No. Structural BMPs:* 4 *Start BMP Numbering at:* 1

DP No.	BMP No.	BMP Name	Series	BMP DA (acres)	DA Impervious	Volume Routed to BMP	Infiltration / Vegetate	Infiltration Rate (in/hr)	Infiltration Period (hrs)	Vegeta-ted?	Media Depth (ft)	Storage Volume (CF)	Infiltration Credit (CF)	ET Credit (CF)
001	1	Infiltration Trench	-	3.00	2.5	10,000	2,000	1.00	96	No	0.5	10,000	**10,000**	
001	2	Rain Garden / Bioretention	1	3.00	2.5	7,500	400	1.00	96	Yes	1.0	2,000	**2,360**	**123**
002	3	Infiltration Basin	-	6.00	1	10,000	2,000	1.00	96	Yes	0.5	10,000	**10,000**	**0**
002	4	Constructed Filter	-	6.00	1	500	0	0.00	1	No	0.5	0	**0**	
												Totals:	**22,360**	**123**

RATION & ET CREDITS (CF): 22,483
GED RELEASE CREDIT (CF):

CHANGE IN VOLUME TO MANAGE (25,299
TOTAL CREDITS (CF): 25,683

VOLUME REQUIREMENT SATISFIED

PCSM Spreadsheet

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

DEP PCSM Spreadsheet
Version 1.5, January 2020

Rate Control

Project: XYZ

Instructions | General | Volume | *Rate* | Quality

CLEAR FORM

☐ **Report Summary of Peak Rates Only**

☑ **Time of Concentration (Tc) - Pre-Construction** ☐ ***Use Default (0.1 hr)***

☑ Sheet Flow

Segment ID:	**A-B**	
Surface Description:	**Smooth Surfaces**	
Manning's n value:	**0.011**	
Flow Length (ft):	**100**	
Land slope (%):	**0.90%**	
Travel Time, 2-Year Storm (hr):	**0.03**	
Travel Time, 10-Year Storm (hr):	**0.03**	
Travel Time, 50-Year Storm (hr):	**0.02**	
Travel Time, 100-Year Storm (hr):	**0.02**	

☐ Shallow Concentrated Flow

☐ Channel Flow

PCSM Spreadsheet

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

DEP PCSM Spreadsheet
Version 1.5, January 2020

Water Quality

Project: XYZ

PRINT

CLEAR FORM

Instructio | General | Volume | Rate | *Quality*

Pre-Construction Pollutant Loads:

Land Cover (from Volume Worksheet)	Land Cover for Water Quality	Area (acres)	Runoff Volume (cf)	Pollutant Conc. (mg/L)			Pollutant Loads (lbs)		
				TSS	TP	TN	TSS	TP	TN
Impervious	Impervious (Mixed Use)	0.01	111	116	0.35	2.57	0.81	0.00	0.02
Impervious as Meadow	Grassland/Herbaceous	0.01	14	49	0.22	2.30	0.04	0.00	0.00
Pervious as Meadow	Grassland/Herbaceous	4.98	6,817	49	0.22	2.30	20.77	0.09	0.98
						TOTALS:	21.62	0.10	1.00

Post-Construction Pollutant Loads (without BMPs):

Land Cover (from Volume Worksheet)	Land Cover for Water Quality	Area (acres)	Runoff Volume (cf)	Pollutant Conc. (mg/L)			Pollutant Loads (lbs)		
				TSS	TP	TN	TSS	TP	TN
Open Space (Lawns, Parks, Golf Courses, Cemeteries, Etc.) - Good Condition (Grass Cover > 75%)	Open Space	2.50	4,406	78.00	0.25	1.25	21.46	0.07	0.34
Impervious Areas: Streets and Roads - Paved; Curbs and Storm Sewers (Excluding ROW)	Urban Highway	2.50	27,834	142.00	0.32	3.00	246.80	0.56	5.21
						TOTALS:	268.26	0.62	5.56

LUTANT LOAD REDUCTION REQUIREMENTS (LBS): 246.64 | 0.53 | 4.56

PCSM Spreadsheet

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

DEP PCSM Spreadsheet
Version 1.5, January 2020

Water Quality

Project: XYZ

PRINT

CLEAR FORM

Instructio | General | Volume | Rate | *Quality*

☑ **Non-Structural BMP Water Quality Credits** (attach calculations):

Description: **water quality Filter**

TSS	TP	TN
52.00	0.25	

☑ **Structural BMP Water Quality Credits:**

☑ *Use default BMP Outflows and Median BMP Outflow Concentrations*

DP No.	BMP No.	BMP Name	Series	BMP DA (acres)	Vol. Routed to BMP (CF)	Inf. & ET Credits (CF)	Capture Credits (CF)	Outflow (CF)	Outflow Conc. (mg/L)			Pollutant Loads (lbs)		
									TSS	TP	TN	TSS	TP	TN
001	1	Infiltration Trench	-	3.00	10,000	10,000		0	-	-	-	-	-	-
001	2	Rain Garden / Bioretention	1	3.00	7,500	2,483		5,017	10.00	0.24	1.04	3.13	0.08	0.33
002	3	Infiltration Basin	-	6.00	10,000	10,000		0	10.00	0.24	1.04	0.00	0.00	0.00
002	4	Constructed Filter	-	6.00	500	0		500	9.00	0.09	1.05	0.28	0.00	0.03

	TSS	TP	TN
POLLUTANT LOADS FROM STRUCTURAL BMP (TREATED) OUTFLOWS (LBS):	3.41	0.08	0.36
POLLUTANT LOADS FROM UNTREATED STORMWATER (LBS):	7.15	0.02	0.14
NON-STRUCTURAL BMP WATER QUALITY CREDITS (LBS):	52.00	0.25	0.00
NET POLLUTANT LOADS FROM SITE, POST-CONSTRUCTION (LBS):	0.00	0.00	0.50
POLLUTANT LOADS FROM SITE, PRE-CONSTRUCTION (LBS):	21.62	0.10	1.00

WATER QUALITY REQUIREMENT SATISFIED

Antidegradation Analysis Module 3

- Required for all IP applications with discharges to special protection (HQ/EV) surface waters or waters impaired for siltation, suspended solids, turbidity, water/flow variability, flow modifications/alterations, or nutrients.
- Slight difference between PAG-02 and IPs

Monroe County Conservation District

Pike County Conservation District

Antidegradation Analysis Module 3

Applicant: _____ Project Site Name: _____

Surface Water Name: _____ Surface Water Use: _____

ANTIDEGRADATION – EROSION AND SEDIMENT CONTROL (E&S) PLAN

☐ A **Non-Discharge Alternative will be utilized** for the project that will either individually or collectively eliminate the net change in stormwater volume, rate, and quality for storm events up to and including the 2-year/24-hour storm during earth disturbance activities.

Identify the E&S BMP(s) that will be utilized to achieve the non-discharge alternative:

- ☐ Alternative Siting: Location
- ☐ Alternative Siting: Configuration
- ☐ Alternative Siting: Location of Discharge
- ☐ Other: _____
- ☐ Limiting Extent & Duration of Disturbance
- ☐ Riparian Buffer (150 ft min.)
- ☐ Riparian Forest Buffer (150 ft min.)
- ☐ Limited Disturbed Area

Explain how the E&S BMP(s) will individually or collectively eliminate the net change in stormwater volume, rate, and quality for storm events up to and including the 2-year/24-hour storm during earth disturbance activities.

If a **Non-Discharge Alternative will not be utilized**, explain the rationale for non-selection, including why none of the alternatives are considered environmentally sound and cost-effective.

Antidegradation Analysis Module 3

☐ **Antidegradation Best Combination of Technologies (ABACT) BMP(s) will be utilized** for the project that will either individually or collectively manage the net change in stormwater volume, rate, and quality for storm events up to and including the 2-year/24-hour storm during earth disturbance activities.

Identify the ABACT E&S BMP(s) that will be utilized:

- ☐ Rock Construction Entrance with Wash Rack
- ☐ Wheel Wash
- ☐ Pumped Water Filter Bag with Sump Pit
- ☐ Compost Filter Berm (HQ Only)
- ☐ Silt Fence with Vegetative Filter Strip
- ☐ Wood Chip Filter Berm (HQ Only)
- ☐ Sediment Basin with Perforated Riser (HQ Only)
- ☐ Stone Inlet Protection with Compost Layer (HQ Only)
- ☐ Embankment Sediment Trap with Compost Layer (HQ Only)
- ☐ Sediment Trap with Perforated Riser (HQ Only)
- ☐ Erosion Control Blankets within 50 ft of Surface Waters
- ☐ Flocculant with PAMs
- ☐ Riparian Buffer (< 150 ft)
- ☐ Rock Construction Entrance with Street Sweeping
- ☐ Pumped Water Filter Bag with Compost Sock Ring
- ☐ Compost Filter Sock
- ☐ Weighted Sediment Filter Tube (HQ Only)
- ☐ Super Silt Fence with Vegetative Filter Strip
- ☐ Vegetative Filter Strip (HQ Only)
- ☐ Sediment Basin with Skimmer
- ☐ Compost Filter Sock Sediment Trap
- ☐ Embankment Sediment Trap with Compost Sock
- ☐ Sediment Trap with Skimmer
- ☐ Immediate Stabilization
- ☐ Vegetative Conveyance
- ☐ Riparian Forest Buffer (< 150 ft)
- ☐ Approved Alternative: _____

Explain how the E&S BMP(s) will individually or collectively manage the net change in stormwater volume, rate, and quality for storm events up to and including the 2-year/24-hour storm during the earth disturbance activities.

Antidegradation Analysis Module 3

ANTIDEGRADATION – POST-CONSTRUCTION STORMWATER MANAGEMENT (PCSM) PLAN

☐ A **Non-Discharge Alternative will be utilized** for the project that either individually or collectively eliminate the net change in stormwater volume, rate, and quality for storm events up to and including the 2-year/24-hour storm after earth disturbance activities.

Identify the PCSM BMPs that will be used to achieve the non-discharge alternative:

- ☐ Alternative Siting: Location
- ☐ Alternative Siting: Configuration
- ☐ Alternative Siting: Location of Discharge
- ☐ Infiltration
- ☐ Other: _____
- ☐ Low Impact Development
- ☐ Riparian Buffer (150-ft. min.)
- ☐ Riparian Forest Buffer (150-ft. min.)
- ☐ Water Reuse

Explain how the PCSM BMP(s) will individually or collectively eliminate the net change in stormwater volume, rate, and quality for storm events up to and including the 2-year/24-hour storm after earth disturbance activities.

If a **Non-Discharge Alternative will not be utilized**, explain the rationale for non-selection, including why none of the alternatives are considered environmentally sound and cost-effective.

Antidegradation Analysis Module 3

☐ **Antidegradation Best Combination of Technologies (ABACT) has been selected** for the project that will either individually or collectively manage the net change in stormwater volume, rate, and quality for storm events up to and including the 2-year/24-hour storm after earth disturbance activities.

Identify the ABACT PSCM BMPs that will be utilized:

- ☐ Rain Garden (with Infiltration)
- ☐ Rain Garden (without Infiltration)
- ☐ Constructed Filter
- ☐ Vegetated Swale
- ☐ Vegetated Filter Strip
- ☐ Constructed Wetland
- ☐ Wet Pond
- ☐ Dry Extended Detention Basin
- ☐ Water Quality Device
- ☐ Spray / Drip Irrigation
- ☐ Rain Barrel
- ☐ Protect / Utilize Natural Flow Pathways (on-site)
- ☐ Disconnection of Impervious / Roof Area
- ☐ Pervious Pavement with Infiltration Bed
- ☐ Infiltration Basin
- ☐ Infiltration Bed
- ☐ Infiltration Trench
- ☐ Soil Amendment
- ☐ Dry Well / Seepage Pit
- ☐ Infiltration Berm / Retentive Grading
- ☐ Protect Sensitive / Special Value Features
- ☐ Street Sweeping
- ☐ Green Roof

☐ Approved Alternative: _____

Explain how the PCSM BMP(s) will individually or collectively manage the net change in stormwater volume, rate, and quality for storm events up to and including the 2-year/24-hour storm after earth disturbance activities.

Antidegradation Analysis Module 3

CERTIFICATION
I certify under penalty of law and subject to the penalties of 18 Pa. C.S. Section 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 am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Applicant Name (type or print legibly)

Official Title

Applicant Signature

Date Signed

Monroe County Conservation District

Pike County Conservation District

Riparian Buffer Module 4

- Required for all IP applications where the earth disturbance activity or project site will be within 150 feet of a intermittent or perennial river, stream, creek, lake, pond or reservoir with a designated use of HQ or EV.

Monroe County Conservation District

Pike County Conservation District

Riparian Buffer Module 4

Applicant: _____ Project Site Name: _____

Surface Water Name(s): _____ Surface Water Use(s): _____

APPLICABILITY INFORMATION
Permit Type: ☐ Individual NPDES Permit ☐ Erosion and Sediment Control (E&S) Permit
Check the appropriate box if the project is characterized by any of the following exceptions in 25 Pa. Code § 102.14(d)(1):
☐ Road maintenance activities where any existing riparian buffer will be undisturbed to the extent practicable.
☐ Repair and maintenance of existing pipelines and utilities where any existing buffer will be undisturbed to the extent practicable.
☐ Oil and gas, timber harvesting, or mining activities for which site reclamation or restoration is part of the permit authorization in Chapters 78, 86-90 and 102 where any existing buffer will be undisturbed to the extent practicable.
☐ A single-family home that is not part of a larger common plan of development or sale and the parcel was acquired by the applicant prior to November 19, 2010.
☐ Activities authorized by a DEP permit under other regulations which contain setback requirements and the activity complies with those setback requirements.

Monroe County Conservation District

Pike County Conservation District

Riparian Buffer Module 4

Check the appropriate box if the project is characterized by any of the following allowed or allowable activities in 25 Pa. Code §§ 102.14(f)(2) and (3):

- ☐ Activities or practices used to maintain the riparian buffer including the disturbance of existing vegetation, and tree and shrub removal, as needed to allow for natural succession of native vegetation and protection of public health and safety.
- ☐ Timber harvesting activities in accordance with the riparian forest buffer management plan as part of the PCSM Plan.
- ☐ Passive or low impact recreational activities so long as the functioning of the riparian buffer is maintained.
- ☐ Emergency response and other similar activities.
- ☐ Research and data collection activities, which may include water quality monitoring and stream gauging.
- ☐ Construction or placement of roads, bridges, trails, storm drainage, utilities or other structures that has been or is expected to be authorized by DEP.
- ☐ Water obstructions or encroachments that have been or are expected to be authorized by DEP.
- ☐ Restoration projects that have been or are expected to be authorized by DEP.

Monroe County Conservation District

Pike County Conservation District

Riparian Buffer Module 4

RIPARIAN BUFFER OR RIPARIAN FOREST BUFFER INFORMATION

1. Will earth disturbance activities occur within 150 feet of a perennial or intermittent stream, creek, lake, pond or reservoir with a designated use of High Quality (HQ) or Exceptional Value (EV)?

   ☐ Yes ☐ No

   If Yes to question #1, identify the option selected by the applicant to meet the requirements of 25 Pa. Code § 102.14(a)(1) or Act 162:

   ☐ A 150-foot (min.) riparian buffer or riparian forest buffer will be implemented *(Individual NPDES Permits Only)*.

   ☐ An equivalency demonstration will be conducted *(Individual NPDES Permits Only)*.

   ☐ Applicant is seeking a waiver *(E&S Permits Only)*.

2. Will the project site exist within 150 feet of a perennial or intermittent stream, creek, lake, pond or reservoir with a designated use of High Quality (HQ) or Exceptional Value (EV) where the use is not being attained (i.e., water is impaired)?

   ☐ Yes ☐ No

   If Yes to question #2, identify the option selected by the applicant to meet the requirements of § 102.14(a)(2) or Act 162:

   ☐ A 150-foot (min.) riparian forest buffer will be implemented (maintained, converted or established).

   ☐ An equivalency demonstration to a riparian forest buffer will be conducted *(Individual NPDES Permits Only)*.

   ☐ Applicant is seeking a waiver *(E&S Permits Only)*.

3. Species that will be planted: _____

4. Average minimum widths: Zone 1: _____ ft Zone 2: _____ ft

5. Buffer linear length: _____ ft

6. ☐ A riparian forest buffer management plan has been included in the PCSM Plan for the project.

7. The buffer will be protected in perpetuity by: ☐ Deed restriction ☐ Conservation easement

   ☐ Other: _____

Riparian Buffer Module 4

EQUIVALENCY DEMONSTRATION
☐ Worksheets 12 and 13 from DEP's Pennsylvania Stormwater BMP Manual (363-0300-002) and Worksheets 14 and 15 from DEP's Riparian Buffer or Riparian Forest Buffer Equivalency Demonstration (310-2135-002) have been completed and are attached to this module and demonstrate that proposed PCSM BMPs will provide equivalent or better pollutant load reductions as a riparian buffer or riparian forest buffer.
☐ The Checklist for Functional Equivalency of Riparian Buffers and Riparian Forest Buffers as contained in DEP's Riparian Buffer or Riparian Forest Buffer Equivalency Demonstration (310-2135-002) is attached to this module.
Will there be any earth disturbance within 100 feet of a surface water (as defined in 25 Pa. Code § 102.1)?
☐ Yes ☐ No
If Yes, complete the Riparian Forest Buffer Offset Information section. If No, skip to the Certification section.

Monroe County Conservation District

Pike County Conservation District

Riparian Buffer Module 4

RIPARIAN FOREST BUFFER OFFSET INFORMATION

1. Area that must be offset (show on PCSM Plan Drawing): _____ acre(s)
2. Proposed offset area (show on PCSM Plan Drawing): _____ acre(s)
3. Ch. 93 Drainage List of Project Site Waters: _____
4. Ch. 93 Drainage List of Offset Site Waters: _____ Name of Offset Site Waters: _____
5. Offset Property Owner Name and Address: _____

☐ Authorization to implement a new riparian forest buffer at the offset site has been provided and is attached.

☐ A Plan showing the location of the offset site and the buffer extent and an implementation plan are attached.

6. Species that will be planted: _____
7. Average minimum widths: Zone 1: _____ ft Zone 2: _____ ft
8. Buffer linear length: _____ ft
9. ☐ A riparian forest buffer management plan has been included in the PCSM Plan for the project.
10. The buffer will be protected in perpetuity by: ☐ Deed restriction ☐ Conservation easement
    ☐ Other: _____

Monroe County Conservation District

Pike County Conservation District

Riparian Buffer Module 4

WAIVER INFORMATION

1. The project qualifies for the following waiver(s) under 25 Pa. Code § 102.14(d)(2):
   - ☐ The project is necessary to abate a substantial threat to public health or safety.
   - ☐ The project is a linear project including pipelines, public roadways, rail lines or utility lines.
   - ☐ The project is an abandoned mine reclamation activity that will be conducted under a DEP authorization or permit.
   - ☐ The project is a redevelopment project which may include brownfields or use of other vacant land and property within a developed area for further construction or development.
   - ☐ Compliance with 25 Pa. Code §§ 102.14(a) or (b) is not appropriate or feasible due to site characteristics or existing structures at the project site.
2. ☐ An alternatives analysis is attached.
3. ☐ Existing riparian buffers will be preserved to the extent practicable.

Monroe County Conservation District

Pike County Conservation District

Riparian Buffer Module 4

CERTIFICATION
I certify under penalty of law and subject to the penalties of 18 Pa. C.S. Section 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 am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Applicant Name (type or print legibly)

Official Title

Applicant Signature

Date Signed

Monroe County Conservation District

Pike County Conservation District

NOI / Application Checklists

- Detailed checklists have been replaced with the PAG-02 NOI Checklist (3800-PM-BCW0405c) and IP Checklist (3800-PM-BCW0408c).
- These checklists should be completed with the NOI/application and submitted as part of the NOI/application.
- Purpose is to ensure a complete NOI/application package.

Monroe County Conservation District

Pike County Conservation District

Differences: PAG02 vs IP

- Required use of non-discharge or ABACT BMPs
  - **PAG-02** – discharges to impaired waters (with or without a TMDL) and discharges to waters covered by a TMDL, including Chesapeake Bay
  - **IP** – discharges to impaired waters (with or without a TMDL) and special protection waters
- Modules 3 and 4 for IP use only, when applicable

Monroe County Conservation District

Pike County Conservation District

Differences: PAG02 vs IP

- Effective Date:
  - PAG-02: Same as issuance date
  - IP: 1st day of month following issuance date

- Expiration Date:
  - PAG-02: December 7, 2024
  - IP: 5 years minus one day following effective date

Monroe County Conservation District

Pike County Conservation District

Differences: PAG02 vs IP

- Permit:
  - PAG-02: Must be issued as published
  - IP: Site-specific special conditions can be added

Monroe County Conservation District

Pike County Conservation District

PNDI

- **Applicant** must sign the PNDI Receipt
- Avoidance Measures - The **applicant** must sign the PNDI receipt, indicating that the applicant can and will fulfill the Avoidance Measures for the project, and the Avoidance Measures must be identified in the E&S and/or PCSM Plan.
- If the applicant cannot or chooses not to meet the Avoidance Measures, the applicant must follow the Potential Impact procedure.

Monroe County Conservation District

Pike County Conservation District

PA Bulletin Notification/ Public Comment Period

- PAG-02- Published once, upon permit action
- Individual NPDES Permit – published twice
  - No longer published at application completeness stage
  - After completion of technical review process, published as draft permit decision and notification of complete permit application
  - Published as final permit action
- All comment/appeal periods: 30 calendar days

Monroe County Conservation District

Pike County Conservation District

Transferees and Co-Permittees

- Now two separate forms
- Transfer Application (3800-PM-BCW0041b)
  - Same as the rest of the NPDES programs
  - Proof that instrument has been recorded for PCSM BMPs is now required with Transfer Application, if applicable, and with the Notice of Termination
- Co-permittee Acknowledgement Form (3800-FM-BCW0271a)
  - Signed by Permittee and Co-permittee
  - If correctly completed, as soon as form is signed, co-permittee is acting under the permit.

Monroe County Conservation District

Pike County Conservation District

Covered Topics

- Learn about new procedures and concepts
- Identify new forms
- Learn how to complete the forms
- Discuss the PCSM Spreadsheet and identify when it should be used

Monroe County Conservation District

Pike County Conservation District

Questions?

Monroe County Conservation District

Pike County Conservation District