Module 3 Completion

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Applicability

- Individual Permits
- Waters Impaired for:
 - Siltation
 - Suspended Solids
 - Turbidity
 - Water/Flow Variability
 - Flow Modifications/Alterations
 - Nutrients
- One Module for Each Surface Water Discharge





3800-PM-BCW0406c Rev. 6/2021 Antidegradation Module 3

COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF CLEAN WATER

pennsylvania

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) DISCHARGES OF STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITIES ANTIDEGRADATION ANALYSIS MODULE 3

Applicant:	Project Site Name:
Surface Water Name:	Surface Water Use:

- General Information Section
- Surface Water Name
 - Existing Use Designation if Surface has an Existing Use. (EMAP)
 - Otherwise Use the Designated Use
 - EV Wetlands to Brodhead Creek "EV to HQ-CWF/MF"





	ANTIDEGRADATION – EROSION AND S	SEDIME	NT CONTROL (E&S) PLAN
cha	lon-Discharge Alternative will be utilized for the projectinge in stormwater volume, rate, and quality for storm even urbance activities.		
Ide	ntify the E&S BMP(s) that will be utilized to achieve the non	-dischar	ge alternative:
	Alternative Siting: Location		Limiting Extent & Duration of Disturbance
	Alternative Siting: Configuration		Riparian Buffer (150 ft min.)
	Alternative Siting: Location of Discharge		Riparian Forest Buffer (150 ft min.)
	Other:		Limited Disturbed Area

- Are the BMP's listed in these checkboxes truly <u>eliminating</u> (all by themselves) the net change in stormwater during construction? They may contribute but do they truly eliminate?
- Need to Consider:
 - Worst Case Land Cover changes (vegetated/impervious to bare earth)
 - Travel time considerations during construction/ concentrated flows
 - Use of Regulated Release of stormwater during construction-Is the Volume being eliminated?





E&S Non-Discharge Alternative

lden	tify the E&S BMP(s) that will be utilized to achieve the non-d	ischar	ge alternative:
	Alternative Siting: Location		Limiting Extent & Duration of Disturbance
	Alternative Siting: Configuration		Riparian Buffer (150 ft min.)
	Alternative Siting: Location of Discharge		Riparian Forest Buffer (150 ft min.)
	Other:		Limited Disturbed Area

- Alternate Siting: Location-move project to non-special protection location
- Alternate Siting: Configuration-layout of project to eliminate impacts to SP waters
- Alternate Siting: Location of Discharge: Discharge to Non-Special Protection Waters during construction.
- Limit Extent/Duration of Disturbance: Sequencing and Permanent stabilization of sections to eliminate impacts
- Buffers: Maintain and protect buffers to filter pollutants. Need to claim as BMP and permanent protection provided.
- Limited Disturbed Areas: Project size does not create an impact (Redevelopment Project, No new impervious, adequate separation/dispersal
- Other: Provide justification



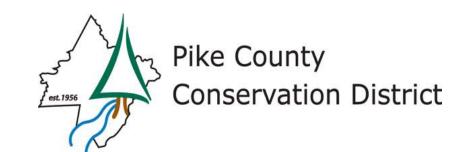


E&S Non-Discharge Alternative

A Non-Discharge Alternative will be utilized for the project that will either individually or collectively <u>eliminate</u> the ne change in stormwater volume, rate, and quality for storm events up to and including the 2-year/24-hour storm <u>during</u> earth disturbance activities.				
lden	tify the E&S BMP(s) that will be utilized to achieve the non-di	schar	ge alternative:	
	Alternative Siting: Location		Limiting Extent & Duration of Disturbance	
	Alternative Siting: Configuration		Riparian Buffer (150 ft min.)	
	Alternative Siting: Location of Discharge		Riparian Forest Buffer (150 ft min.)	
	Other:		Limited Disturbed Area	
	ain how the E&S BMP(s) will individually or collectively <u>elimin</u> torm events up to and including the 2-year/24-hour storm dur			

- If you are not checking the main box (green)-this section should be blank (you are not eliminating).
- Check Green Box-Provide justification (with supporting calculations) how the 2 year storm impacts during construction are being *eliminated*.





E&S Non-Discharge Alternative

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.

- Justify why Each of the Checkbox BMP's were not used and why they are not environmentally sound or cost effective. (Green Box is not checked)
- Alternate Siting: Location
- Alternate Siting: Configuration
- Alternate Siting: Location of Discharge:
- Limit Extent/Duration of Disturbance:
- Buffers:
- Limited Disturbed Areas:





E&S ABACT

_ 6	intidegradation Best Available Combination of Technologies ither individually or collectively manage the net change in storm including the 2-year/24-hour storm during earth disturbance activities.	wate	
I	dentify the ABACT E&S BMP(s) that will be utilized:		
[Rock Construction Entrance with Wash Rack		Rock Construction Entrance with Street Sweeping
[☐ Wheel Wash		Pumped Water Filter Bag with Compost Sock Ring
(Pumped Water Filter Bag with Sump Pit		Compost Filter Sock
(Compost Filter Berm (HQ Only)		Weighted Sediment Filter Tube (HQ Only)
[Silt Fence with Vegetative Filter Strip		Super Silt Fence with Vegetative Filter Strip
[Wood Chip Filter Berm (HQ Only)		Vegetative Filter Strip (HQ Only)
[Sediment Basin with Perforated Riser (HQ Only)		Sediment Basin with Skimmer
(Stone Inlet Protection with Compost Layer (HQ Only)		Compost Filter Sock Sediment Trap
[Embankment Sediment Trap with Compost Layer (HQ Only)		Embankment Sediment Trap with Compost Sock
[Sediment Trap with Perforated Riser (HQ Only)		Sediment Trap with Skimmer
[☐ Erosion Control Blankets within 50 ft of Surface Waters		Immediate Stabilization
[Flocculant with PAMs		Vegetative Conveyance
[Riparian Buffer (< 150 ft)		Riparian Forest Buffer (< 150 ft)

- If you are <u>not</u> checking the main box (Green box from previous slide- i.e. Project is not *eliminating* net change by NDA), the 2 year storm impacts are being managed by using the BMP's attached in this list.
- Check main box (blue) in this section and ABACT BMP's being utilized on the project.



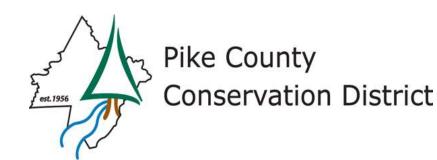


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Approved Alternative:
Explain how the E&S BMP(s) will individually or collectively manage the net change in stormwater volume, rate, and quality for storm events up to and including the 2-year/24-hour storm during the earth disturbance activities.

- List any Approved Alternative BMPs (must meet ABACT) used on project
- Provide a narrative how ABACT BMP's manage the 2 year net change.
- This is not the same as the PCSM section-How are you managing stormwater <u>during the construction</u> <u>phase</u> of the project.





PCSM Non-Discharge Alternative

	ANTIDEGRADATION - POST-CONSTRUCTION STO	RMW	ATER MANAGEMENT (PCSM) PLAN
in st	on-Discharge Alternative will be utilized for the project that ormwater volume, rate, and quality for storm events up to and rities.		
Iden	tify the PCSM BMPs that will be used to achieve the non-disc	harge	e alternative:
	Alternative Siting: Location		Low Impact Development
	Alternative Siting: Configuration		Riparian Buffer (150-ft. min.)
	Alternative Siting: Location of Discharge		Riparian Forest Buffer (150-ft. min.)
	Infiltration		Water Reuse
	Other:		

- Are the BMP's listed in these checkboxes truly <u>eliminating</u> (all by themselves) the net change in stormwater after construction? They may contribute but do they truly eliminate?
- Need to Consider:
 - Infiltration, Water Reuse-Are these BMP's <u>by themselves</u> meeting Q,V and WQ? No other BMP's being claimed? (Trees, WQ Filters, Landscape Restoration, etc.)
 - Note-an MRC does not Eliminate, it Manages the Net change





PCSM Non-Discharge Alternative

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 not eliminating-This section should be blank
- Otherwise provide justification for NDA BMP's selected

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.

- Justify why Each of the Checkbox BMP's were not used and why they are not environmentally sound or cost effective.
- Alternate Siting-Location
- Alternate Siting-Configuration
- Alternate Siting-Location of Discharge:
- Infiltration
- Low Impact Development
- Buffers
- Water Reuse





PCSM ABACT

_	Antidegradation Best Available Combination of Technologie individually or collectively manage the net change in stormwater the 2-year/24-hour storm after earth disturbance activities.	
	Identify the ABACT PSCM BMPs that will be utilized:	
	Rain Garden (with Infiltration)	Disconnection of Impervious / Roof Area
	Rain Garden (without Infiltration)	Pervious Pavement with Infiltration Bed
	☐ Constructed Filter	Infiltration Basin
	□ Vegetated Swale	Infiltration Bed
	□ Vegetated Filter Strip	Infiltration Trench
	☐ Constructed Wetland	Soil Amendment
	☐ Wet Pond	Dry Well / Seepage Pit
	□ Dry Extended Detention Basin	Infiltration Berm / Retentive Grading
	■ Water Quality Device	Protect Sensitive / Special Value Features
	☐ Spray / Drip Irrigation	Street Sweeping
	Rain Barrel	Green Roof
	☐ Protect / Utilize Natural Flow Pathways (on-site)	

- If you are <u>not</u> checking the main box (Project is not *eliminating* net change by NDA), the 2 year storm impacts are being managed by using the BMP's attached in this list.
- Check main box in this section (blue) and ABACT BMP's being utilized on the project.





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events up to and	including the 2-yea	r/24-hour storm	n <u>after</u> earth dist	urbance activi	ties.	
	events up to and	events up to and including the 2-yea	events up to and including the 2-year/24-hour storn	events up to and including the 2-year/24-hour storm <u>after</u> earth dist	events up to and including the 2-year/24-hour storm <u>after</u> earth disturbance activi	events up to and including the 2-year/24-hour storm <u>after</u> earth disturbance activities.

- List any Approved Alternative BMPs (must meet ABACT) used on project
- Provide a narrative how ABACT BMP's manage the 2 year net change.





Certification

CERTIFICATION

I certify under penalty of law and subject to the penalties of 18 Pa.C.S. § 4904 (relating to unsworn falsification to authorities) that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I 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

Note: Applicants Signature Required





Questions?



