Phase 3 Watershed Implementation Plan (WIP) Planning and Progress Template

Green - action has been completed or is moving forward as planned   Yellow - action has encountered minor obstacles   Red - action has not been taken or has encountered a serious barrier

Action #	Description	Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources Available				Resources Needed			
							Technical	Source	Financial	Source	Technical	Suggested Source	Financial	Suggested Source
Priority Initiative 5: Developed/Urban Stormwater														
5.1	Develop model ordinances focused on water quality and stormwater management		SW Action Team, BCPC, municipalities	Countywide	Game plan by early 2021 (followed by imp.)	Focus on preservation and long-term maintenance of implemented BMPs Updated SWMO(s) Floodplain management Municipal resistance	Local consultants/ engineers BCPC						Ordinance development funding	
5.2	Capture unreported land development BMPs		PADEP	Countywide	On-going	Reconciliation of toolbox quantities with on-the-ground conditions								
5.3	Identify regional project opportunities in select watersheds		LSI, BCCD	NFWF priority watersheds	Late 2020-mid-2021	Focus on stream restoration, streambank stabilization, dirt & gravel roads opps.	BCCD, LSI		Awarded grant (~$47k)	NFWF				
5.4	Fertilizer legislation		State			For turf grass areas								
5.5	Pursue regional stream and wetland restoration projects that provide significant additional benefits and reductions	*Urban Stream Restoration (30,000 new linear feet)* *Non-urban Stream Restoration (48,000 new linear feet)* *Wetland Restoration (150 acres)*	TU, BCCD, WPC, watershed groups, non-profits, municipalities	Countywide	Current – 2025 (and beyond)	TU project (in Bedford) WPC projects (*RB AT mostly*) Tie into planned Hazard Mitigation Plan update efforts	Local consultants/ engineers Non-profits (TU, etc.)		NFWF, GG, EPA, DCNR				Full BMP implementation dollars (~$23.5 million)	

#	Priority Initiative	BMPs/Outputs	Who	Where	When	Challenges	Inputs		Funding				Cost	
5.6	Promote and assist implementation of urban/suburban sector controls for nutrient and sediment reductions	*Advanced Grey Infrastructure for IDD&E Control (250 acres treated)* *Impervious Surface Reduction (1 acre)* *Urban Nutrient Management (3,400 acres)*	Municipalities	Countywide with initial focus on urban communities and priority catchments	Late 2020 – 2025 (and beyond)	Urban nutrient management is dependent on fertilizer legislation Tight timeframe for significant BMP implementation Long-term verification processes No MS4 communities in Bedford County	Local consultants/ engineers Municipalities		NFWF, GG, EPA, munic.				Full BMP implementation dollars (~$17,000)	
5.7	Promote and assist implementation of stormwater control measures that incorporate Low Impact Development (LID) approaches	*Wet Ponds and Wetlands (40 acres treated)* *Stormwater Performance Standards-Runoff Reduction (350 acres treated)* *Bioretention/Raingardens (15 acres treated)* *Vegetated Open Channels (10 acres treated)* *Filtering Practices (5 acres treated)*	SW Action Team, BCPC, municipalities	Countywide with initial focus on priority catchments	Late 2020 – 2025 (and beyond)	Tight timeframe for significant BMP implementation Long-term verification processes Partially tied to capture of unreported BMPs	Local consultants/ engineers		NFWF, GG(DEP), EPA, DCNR, developers				Full BMP implementation dollars (~$600,000)	
5.8	Promote and assist implementation BMPs tied to the Dirt & Gravel Road program	*Outlets only – 300 linear feet* *Driving Surface + Outlets – 1,000 linear feet*	BCCD, BCPC, SW Action Team, municipalities	Countywide	2021 – 2025 (and beyond)	Stabilization of rural areas with WQ improvements	BCCD Local engineers		Full BMP imp. dollars (~$1,000)	D&GR program				

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Each county-based local area will use this template to identify:

1. Inputs – These are both existing and needed resources, public and private, to implement the identified priority initiative. These include both technical and financial resources, such as personnel, supplies, equipment and funding.

2. Process – what is each partner able to do where and by when. These are the action items listed under each priority initiative.

3. Outputs and outcomes – both short and long-term. These are the priority initiatives identified by each county.   The performance targets are the intermediate indicators that will measure progress.

4. Implementation challenges – any potential issues or roadblocks to implementation that could impede outputs and outcomes.

Asterisk: Place an asterisk next to the action number(s) for action items that appear in both the County Planning and Progress Template and the Programmatic Recommendations Template.

For each Priority Initiative or Program Element: Use the fields, as defined below, to identify the inputs and the process that will be followed to achieve each priority initiative. This is the "who, what, where, when and how" of the plan:

Description = What. This may include programs that address prevention, education, or as specific as planned BMP installations that will address the Priority Initiative. A programmatic or policy effort will require some ability to quantify the anticipated benefits which will allow calculation of the associated nutrient reductions.

Performance Target = How. This is an extension of the Description above. The Performance Target details the unique BMPs that will result from implementation of the Priority Initiative and serves as a benchmark to track progress in addressing the Priority Initiative. Performance Targets may be spread across multiple Responsible Parties, Geographies, and Timelines based on the specifics of the Initiative.

Responsible Party(ies) = Who. This is/are the key partner(s) who will implement the action items though outreach, assistance or funding, and who will be responsible for delivering the identified programs or practices.

Geographic Location = Where. This field identifies the geographic range of the planned implementation. This could extend to the entire county or down to a small watershed, based on the scale of the Priority Initiative, range of the Responsible Party, or planned funding/resources. *NOTE: Resource limitations alone should not limit potential implementation as additional funding may become available in the future.*

Expected Timeline = When. Provide the expected completion date for the planned activity. This should be a reasonable expectation, based on knowledge and experience, that will aid in tracking progress toward addressing the Priority Initiative.

Resources Available: Technical & Funding = This field will note technical and financial resources secured/available to implement the program (Description). This is the total of the resources identified in the County Resources Inventory Template below allocated to the priority initiative as a whole; or, if available, to each action.

Resources Needed: Technical & Funding = This field will note technical and financial resources needed/outstanding to implement the program (Description). This is the total of the additional resources projected and identified as needed in the County Resources Inventory Template below allocated to the priority initiative as a whole; or, if possible, to each action.

Potential Implementation Challenges/Issues = This field will note challenges and issues that may delay program implementation (Description).