

## Template 1. 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 1: Buffer Implementation

1.1	1 stellar buffer demonstration of 1-2 acres in every township (60 total)	<i>Forest buffer narrow - 100 acres</i>	Municipalities, Lancaster's buffer action team, Lancaster County Clean Water Consortium	All municipalities	2018-2025	<p>With stormwater fees on the horizon, prepare to incentivize Ag and buffers with stormwater exemptions. (Financial and technical support from municipalities as we all wade through new MS4 flexibility )</p> <p>Not enough boots on the ground to find willing land owners, train municipal staff, and organize plantings</p> <p>Financial and technical support from municipalities as we all wade through new MS4 flexibility</p> <p>CREP is no longer available for municipalities (example given at public meeting where they used to get support to use CREP</p>	<p>Public works staff employed to maintain projects</p> <p>Some municipalities already have a buffer that could serve as a demonstration project</p> <p>COG's, source water collaboratives, and Lancaster County Clean Water Consortium can work as coordinating leadership groups to get groups of municipalities done</p> <p>grant money available for implementation, will assist</p>					<p>Signage to explain the value of a buffer at every project</p> <p>More boots on the ground (planning, planting, maintenance)</p> <p>Willing municipalities</p> <p>Consistent professional development for municipal and conservation staff so messaging is the same</p> <p>Mapping point person/group to show progress spatially so the public can see where</p>	<p>Lancaster County Clean Water Consortium to serve as organizing group for implementation</p> <p>Potentially LCWP's buffer specialist</p>	<p>Dollars specifically set aside to address extreme weather events for buffer repair so teams aren't spending general funds</p> <p><b>Estimates:</b> \$4,000 per acre (source: EQIP) plus 20% for pre- and post-project work (willing landowner contact, monitoring, etc) done by boots on the ground staff</p>	Climate change WIP
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						dollars and trees for available lands but that has stopped)	with overall MS4 permit compliance and public education  Existing partner support for consistent signage across the county  Non-municipal partners currently installing buffers (Farmland Trust, Alliance, CBF, PSU, Stroud, Conservancy, LCCD)				their dollars are going			
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							Technical	Source	Financial	Source	Technical	Suggested Source	Financial	Suggested Source
1.2	Create and maintain an online map of buffer miles to show progress across the county  This allows us to adjust our efforts if we realize there is a specific area where buffers are disappearing at	Community engagement and public education  Data management	Lancaster's buffer team, Buffer specialist provided by Focus Lancaster NFWF grant, DEP	All areas but priority watersheds first	Online map published by 12/2020	Consistent and timely reporting of projects; CREP data is private  Lidar frequency is limiting	We can model the reporting after CBF's K10 initiative (online GIS map); use Chesapeake Conservancy buffer gap opportunity maps to determine available next places to work in priority watersheds;		Private foundation support for Chesapeake Conservancy's ability to work in Lancaster County		Access to Practice Keeper or a shared map with the option for partners to add their own GIS layers so specialists can integrate projects with other efforts to show an accurate spatial image	DEP	Dollars to pay for map creation; consistent way of reporting buffer implementation (acres, feet, etc)  Growing Greener grant so the Alliance for the	DEP/EPA

	a detrimental rate.						Alliance for the Chesapeake Bay has an “Adopt a Buffer” program starting if awarded Growing Greener grant; PSU GIS specialist; county GIS team; Lancaster County Conservancy’s GIS specialists; tree canopy report at the County				of work happening  Mapping point person/group to show progress spatially so the public can see where their dollars are going  PennDOT support	Chesapeake Bay can run an “Adopt a Buffer” program as a way to engage local businesses  <i>Estimates: \$7,000 per ArcGIS license</i>  <i>Staff person at the District or staff time from another partner with GIS staff like the Conservancy</i>		
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1.3	Directed and strategic landowner outreach for immediate implementation – Ag projects will get top priority and all projects will be combined with other types of restoration projects as often as possible (streamside, floodplain,	<i>Forest buffer wide – 6,000 acres</i>	All partners across Lancaster County  Lancaster’s buffer team  Lancaster Conservancy	Ag projects get top priority, specifically if a project will limit livestock access to streams  Pequea Watershed, Octoraro Watershed, Chiques watershed, and Cocalico watershed	Implemented or process started for implementation by 2025	Time  Not enough boots on the ground to find willing land owners and organize plantings  CREP acre cap for the state  No Farm Bill means a closed door for CREP  Financial and technical support from municipalities as	Chesapeake Conservancy’s buffer gap analysis  ReLeaf Report  WSI’s list of priority landowners  2019 planting schedule from buffer team members (see Appendix)	LCCD, LFT, Conservancy, Alliance for the Chesapeake Bay, Lancaster Clean Water Partners , municipalities, CBF, PSU AEC,	NFWF  Private foundations  CREP		Plain sect outreach  Staff to do landowner outreach, plant, and maintain  PennDOT support	LCCD, LFT, Conservancy, Alliance for the Chesapeake Bay, Lancaster Clean Water Partners, municipalities, CBF, PSU AEC, DCNR, private consultants – <b><i>we need 3x the staff that are currently</i></b>	Non-federal income-replacing incentive  Dollars specifically set aside to address extreme weather events for buffer repair so teams aren’t spending general funds	DCNR  EPA dollars funneled through a partner organization  Climate change WIP

	wetland, dam removal, etc)			because the data is available, municipalities are already participating, and/or the loading is the highest		we all wade through new MS4 flexibility  Outreach to the plain sect community can be sensitive  USACE issue permit for development on wetlands so the easement is held by USACE with different language (federal level)	CBF's K10 campaign  Plain sect outreach is happening in specific communities  REAP credits  Municipal leaders	DCNR, private consultants				<b>doing the work</b> (other ideas like community-based campaigns within plain sect areas are being explored)		
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**Priority Initiative 2: Buffer Strategy & Regulation**

<b>2.1</b>	<p>We will examine how high quality template language from existing ordinances can help make required buffers the norm across the county (look at Warwick Township and East Cocalico as examples)</p> <p>We will hold a meeting of all municipalities who currently have ordinances with buffer requirements with the intention of getting all municipalities</p>	All implemented projects as a result of this Priority Initiative will be counted in reductions outlined in 1.1 or 1.3	LCWP and Consortium, Lancaster's buffer team, Kate Gonick and the Lancaster County Conservancy	All of Lancaster County  Buffering headwaters is the priority so we can protect source water and preserve pristine areas	2019-2025	<p>Financial and technical support from municipalities as we all wade through new MS4 flexibility</p> <p>Outreach to the plain sect community can be sensitive</p> <p>USACE issue permit for development on wetlands so the easement is held by USACE with different language (federal level)</p>	<p>Report from PSU coming</p> <p>Willing and experienced municipal staff</p> <p>Consortium can offer workshops or events</p>	Warwick, Ephrata, E. Cocalico, etc			<p>A collection of common language that has been well-received by municipal boards</p> <p>Peer-to-peer stories and outreach from municipal officials, developers, and landowners that show how buffers make economic sense for both parties</p> <p>Municipal and Partners staff time to collate the ordinances and strategize how to get</p>		
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	to adopt similar requirements										the best language options out to municipalities (potential PSU intern can finalize this part of the project as this work has already begun)			
	Example recommendation: All headwater streams be required to have a 35-50 foot buffer; all new developments must include buffers, landowner maintenance, and signage													
2.2	Create a Lancaster County Buffer Program	Have an organized effort (not an official County project) that complements CREP and coordinates a care establishment program  This group will oversee the buffer work across the county.  All implemented projects as a result of this Priority	Lancaster buffer team, LCWP  Lancaster County Conservancy  Lancaster County Clean Water Consortium	Across the county, priority watersheds TBD	2019	Financial and technical support from municipalities as we all wade through new MS4 flexibility  Outreach to the plain sect community can be sensitive  USACE issue permit for development on wetlands so the easement is held by USACE with different language (federal level)  Boots on the ground now are doing every role in every phase of buffers - <i>we need 3x our current capacity at every organization</i>	Lamonte Garber, Ashley Spotts  Program to be modeled after the CREP program but creating alternatives based on the limitations identified in CREP  Township solicitors meeting to speak to them all at once  LCWP buffer specialist			Township outreach to monitor township-held easements and buffer ordinances  NGO's currently installing buffers (Farmland Trust, Alliance, CBF, PSU, Stroud, Conservancy, LCCD) with approximately 2-3 staff now, <i>we need 3x that at every organization – add 20% to the cost of a project</i>	Consortium (maybe)	Dollars for the incentive part of the program  Dollars for 3x the staff currently working on buffers – approx. \$1 million because current boots on the ground are doing every angle of buffer strategy, outreach, planning, planting, maintenance, and more – An opportunity	DCNR  Source water budget items  DEP  EPA	

		Initiative will be counted in reductions outlined in 1.1 or 1.3										exists to have staff be more specialized so we can all be more efficient.	
2.3	Create a coordinated outreach campaign for public lands and semi-public lands to be required to have forested buffers  Focus on public health and flood control	60% of churches, schools, libraries, municipalities, parks, will have buffers  All implemented projects as a result of this Priority Initiative will be counted in reductions outlined in 1.1 or 1.3	Lancaster Clean Water Partners	Across the county	2025	Feedback loop: getting landowners all the right resources  Coordination of all the partners' outreach efforts	Alliance for the Chesapeake Bay  DCNR  Existing success stories to be the examples we need  Groundwater and source water collaboratives				Point person to work with at Council of Churches, real estate associations, builders associations, authorities associations, libraries, school districts etc  Marketing materials for each audience  Calendar of events so we don't duplicate  NGO's currently installing buffers (Farmland Trust, Alliance, CBF, PSU, Stroud, Conservancy, LCCD) with approximately 2-3 staff now, we need 3x that at every organization	DCNR	Source water budget items  Sector-specific/non-traditional funding from health and flooding sources



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

**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

**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 through 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)