	Templa	te 1. Phase 3 Watershe	d Implementation Pl	an (WIP) Plann	ing and Pro	gress Template								
		<u>Green</u> - action has	been completed or is movi	ng forward as plan	ned <u>Yellow</u> -	action has encountered	l minor obst	acles <u>R</u>	<mark>ed</mark> - action ł	as not be	en taken or has end	countered a serie	ous barrier	
Action #	Description	Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations		Resources	s <u>Available</u>			Resources	<u>Needed</u>	
							Technical	Source	Financial	Source	Technical	Suggested Source	Financial	Suggested Source
Priori	ty Initiative 1: Pr	rogrammatic, Policy ar	nd Regulatory Chan	ges										
1.1	Integrate Chesapeake Bay planning efforts with county planning through dedicated personnel available to support local goals implementation and address capacity issues on a county by county basis	Organizational chart for all participating entities with roles and responsibilities developed and shared with county planning teams to accompany where to turn for help guide; State level staff hired; Necessary information identified for exchange, reporting criteria and schedule for reports established and data verification process identified;	EPA/DEP/SRBC/PRBC and counties/municipalities	Chesapeake Bay region	2022	Integrated staff – should be at DEP level but with frequent interaction and collaboration with county staff. 2-3 staff at DEP for administration of program and at least one dedicated staff for Franklin County. Other counties may require more or less staffing based on pollution reduction goals. Counties are not one size fits all; program needs to recognize and provide support for plan implementation for county's unique needs	None	None	None	None	Staff will need to be hired to lead and coordinate the WIP effort	State/County part to be determined	State and local funds sufficient for staffing	State/Local
1.2	Agricultural Sector - Create a central county location for data collection and reporting regarding implemented BMPs, county conservation	Establish a centralized data collection and reporting system (enhancing existing systems where applicable)	FCCD, DEP, SRBC, PRBC, Farm Bureau, Penn State Extension, Department of Agriculture, NRCS	Countywide	2023-2024	Coordination between FCCD, NRCS, DEP, EPA, others – consistency and communication of data	None	None	None	None	Staff at state and local level to oversee and maintain system. Provide assistance to local reporting	DEP	Sufficient funds needed	State

	plans, restoration					Reporting system					entities on an			
	project permits,					will require					ongoing basis.			
	grant applications,					maintenance,								
	4R practices, etc.					updates and					Software -			
						adequate tracking					database			
						and verification								
						Privacy concerns								
						about data if subject								
						to Right to Know								
1.3	Agricultural Sector -	Pilot survey of 20 Franklin	EPA, DEP, FCCD, 4R	Chesapeake Bay	Ongoing -	Coordination	Limited	USDA		Federal	Hire WIP	DEP, other	Sufficient	State
	Implement a survey	County farms in 2019	Alliance, The Nature	Region with	Wide scale	between agencies,		FSA		State	Agricultural	state	funds needed	
	process for capturing		Conservancy, Penn	Countywide	survey to be	requires EPA to		DEP		Local	Coordinator(s)to	agencies		
	current agricultural	Expand survey to cover	State Extension, Farm	implementation	completed by	authorize/approve		FCCD			conduct survey			
	best management	countywide total acres in	Bureau, consultants,		2023	survey methodology					and tabulate			
	practices that are	production by 2023	others?			and verification;					data (Includes			
	unreported										1.2)			
		Thereafter survey 20% of				Privacy concerns								
		, county agricultural acres on				, about data if subject					Short term			
		an annual basis				to Right to Know law					would likely			
											require several			
						Survey needs to be					FT staff, ongoing			
						standardized across					funding for at			
											least one FT staff			
						the region and								
						implemented in an					would be key			
						organized fashion.					link to reporting			
						We have heard from								
						stakeholders that								
						they feel they have								
						answered surveys in								
						the past but not								
						certain what was								
						done with the data.								
1.4											Hire WIP			
	Municipal sector –	Evaluation of stormwater	TBD – Multimunicipal	Countywide	Ongoing –	Stormwater	None	None	None	None	Stormwater	DEP	Funds needed	State
	There needs to be a	management rules and	coordinating structure,		Need to	planninng best at a					Coordinator to	County, local	for staffing	County
	coordinated	regulation at state, county	look at possibility of		identify	watershed or higher					develop process	municipalities		Local
	approach to storm	and local level.	utilizing COG structure		coordinating	level.					for coordinating			
	water management	Examine existing inventory	or other forum		entity to	Coordination					participants and			
	planning on the	and database systems in			compile	between local					researching			
	watershed or county	municipalities operating			information	governments,					database			
	level (Act 167).	under MS4;			to be	disagreement on					opportunities			
					initiated in	-					and costs			
	Create a systematic	Possivo cost astimatos far				structure								
	process and	Receive cost estimates for			2019						(Includes 1.4 and			

	1	1				1							
	database for	countywide inventory;				Needs to be an				1.5)			
	inventorying					owner of the data,							
	stormwater	Capture unreported BMPs				identifying that							
	management	on the ground for import				entity							
	practices and	into data system											
	facilities in MS4 and					How will financial							
	non-MS4					responsibility and							
	municipalities					authority of							
	manneipanties					coordinating							
						structure be defined							
						structure be defined							
1.5	Municipal sector -	Coordinate meeting to	TBD – municipalities	Open to	Initial	Coordination							
	Evaluate feasibility	assess interest and	and funding structure	countywide	meeting to	between local	See1.4			See 1.4			
	of multimunicipal	establish guidelines;	will need to be worked	participation	be held in	governments,							
	stormwater entity to		out	le an analle a statistic	2019	disagreement on							
	implement	Research collaborative			2015	structure							
	stormwater	models from other				Suuciale							
						Noodotokoar							
	management	counties;				Needs to be an							
	practices on a					owner of the data,							
	regional scale	Develop guidelines for				identifying that							
		implementation and				entity							
		ordinances for adoption											
						How will financial							
						responsibility and							
						authority of							
						coordinating							
						structure be defined							
Prior	ty Initiative 2: Ad	chieve Pollution Redu	ction Goals										
		Identify BMPs that may be	FCCD, FCPC,	Franklin County	2025	There are many	Federal	Federal Federal	Federal	Trained	Federal	Sufficient	Federal
					2023	,							
		reasonably achieved by	Municipalities, DEP,			unknowns that must	State	State State	State	engineering &	State	funds needed	State
		2025	EPA, Stakeholders			be sorted before the	Local	Local Local	Local	technical staff to	Local	to implement	Local
	Establish a set of	(BMPs must be further				BMP list can be	Private	Private Private	Private		Private	BMPs,	
	BMPs that will	refined before plan can be				finalized;				install and		maintenance,	
	achieve required	implemented);				considerable				maintain BMP		inspections	
2 1	nutrient load					resource limitations				initiatives			
2.1	reductions in an	Implement BMPs as				on municipal and						Initial	
	efficient and cost	indicated				private enterprise						estimate	
	effective manner					levels to collect data						\$15,000,000	
	(see BMP template)	Prioritized groupings of				and implement						for Ag BMPs	
		practices include										-	
		•				BMPs; complex						with possible	
		Agricultural Sector				regulatory and						another	
		1 Cover Cree				information silos do	1					\$10,000,000	
		<ol> <li>Cover Crop Establishment</li> </ol>				not currently allow						for addition	

		2. Nutrient				for ready access to				waste	
		Management and				data; Programmatic				management	
		Waste Storage				changes identified in					
		3. Tillage				Priority 1 must come					
		Management				before nutrient load					
		4. Buffer				reductions can be					
		establishment				demonstrated to be					
		5. Barnyard Runoff				achieved.					
		Control				Cost of BMPs					
		6. Waste				Incentives for BMPs					
		Management				Trading from					
		Systems				development sector					
		7. Land Retirement				to Ag sector for					
		8. Stream & Wetland				cost/benefit.					
		Restoration – non									
		urban				Consideration of					
		9. Conservation Plans				regionalized block					
		10. Stream Bank				grants for BMP					
		Fencing				implementation;					
						incentive programs		Staff to educate,			
		Municipal Sector				for cover crops,		coordinate and			
		1. Urban stream				stream bank		implement			
		restoration				fencing, etc.		municipal sector			
		2. Stormwater									
		performance									
		standards								Initial	
		3. Bio-retention								estimate	
		strategies								\$4,500,000	
		4. Permeable								for municipal	
		Pavement								sector BMPs	
		5. Street Sweeping									
		6. Tree Planting									
	Evaluate current	Review overall impact of	EPA, DEP, USDA, local	Chesapeake Bay	2021	Landowner buy in is	State		State	Funds needed	State
	system of	CREP, REAP, EQIP, Act 319,	partners	region		a challenge, existing	Local	Staffing	Local		
	incentives/penalties	Growing Greener and other				incentive programs	gov.		Consultants		
	for agricultural	programs, evaluate				don't pay for			to work with		
	practices and define	feedback on what hasn't				maintenance, which			Ag		
2.2	enhanced incentive	worked and communicate				is a great concern			community		
	program for BMPs	with local				with buffer plantings					
	with greatest impact	farmers/landowners on								Funds needed	
	on nutrient loads to	what incentives are being				Also cover crop			State		State
	get landowner buy	considered				practices involve					
	in ,					costs for equipment,					
						pest management,					
						,		1			

I control i c	2.4	Prepare GIS mapping of proposed	Provide mapping of existing	FCCD, FCPS, FCGIS,	Countywide	2023	Coordination	Limited		Staffing	State	Sufficient	State
Image: Complete GIS mapping/inventory of areas       FCCD, FCPS, FCGIS, for printing of the state of the sta	a)		Establish stream monitoring to assist in determining priority area and to document impact of installation of BMPs. Identify targeted funding for these installations Conduct landowner outreach Engage watershed organizations, other groups in planting buffers	Chesapeake Bay Foundation, The Nature Conservancy, Antietam Watershed Association, Franklin County Watershed Association, others Monitoring will identify priority area and document water quality improvements of BMP			don't pay for maintenance, which is a great concern with buffer plantings. Gathering data for GIS Limited staff availability. Staff needed for outreach			equipment Staff for outreach &	Federal State County State County	Sufficient funding or ongoing operation of monitoring equipment Funding Needed for	Franklin Local Federal State State County
atc	2.3	installation of BMPs with greatest net	mapping/inventory of areas	Shippensburg	– prioritized locations		account for more than planting alone. Payment for land taken out of production	Limited	Limited	Trained staff	County State	for staff and analysis Sufficient	State State County of

	installation of all BMPs for WIP3	BMPs and proposed BMPs to aid in planning purposes Provides ongoing data, bench mark	Shippensburg University Center for Land Use Studies, Chesapeake Bay Foundation, The Nature Conservancy, Antietam Watershed Association, Franklin County Watershed Association, others			between agencies, privacy concerns about data if subject to right to know Need to define who will own mapping and database This would be a further development of project initiated under 1.4 and 1.5 and would engage staff assisting in inventory efforts More funds needed for consultants, staff to support mapping and analysis effort						County Non Profits	funding needed to carry out task	County
2.5	Implement a better documentation program for commercial and homeowner nutrient applications in developed lands	Provide support for current fertilizer legislation; Conduct education of commercial landscape industry and homeowners; Identify acreage for urban nutrient management plans	DEP, Landscape industry organizations Non Profits	Statewide	2020	Commercial and home use of nutrients should be evaluated in the CAST model, more data is needed on what application levels currently are If Bill doesn't pass, will not be able to implement this action.					State Private Non Profits	State Private	Funding needed	State Private
2.6	Evaluate feasibility for establishment of ordinances on a countywide or multimunicipal scale to promote best management practices around	Research model ordinances and Conservation by Design; Convene municipal working group to discuss best practices;	FCPC, Municipalities, Non Profits, others	Countywide	2020	This would be a further development of project initiated under 1.4 Municipalities have	Limited	State Local	Limited	Limited	Staffing	DEP County	Sufficient funding needed to carry out activities	State County

	stormwater for land use and development plans	Provide incentives for establishment of ordinances at municipal level, utilize tools such as preservation easements, and include educational goals for residents which attain benefits for reducing fertilizer use or establishing				varying levels of capacity and history with establishment of ordinances around water resources					
2.7	Revise model ordinances to reflect current pollution reduction targets and BMPs Develop incentive programs for voluntary adoption of BMPs in developed areas and consider an offset program for implementation of high-impact BMPs in agricultural areas	rain gardens, other BMPs. Consult with communities, particularly those under MS4 regulations, to develop model ordinances that address nutrient, sediment, and stormwater management. Identify BMPs most suited to conditions found within Franklin County municipalities Provide educational materials and meetings to broaden understanding of updated ordinances and the application of BMPs Adoption of ordinance revisions by county municipalities	DEP FCPC FCCD Local Municipalities	Countywide	2019 Initial fact finding regarding ordinances and incentive program structure 2020-2021 Development and distribution of ordinances for comment and /or adoption 2020- Provide guidance and support for incentive programs	Resistance to new or increased regulation is the largest obstacle to this action		See 2.6 above	See 2.6 above	See 2.6 above	See 2.6 above
Priori	ty Initiative 3: Im	plement Education a	nd Coordination/Ou	utreach							
3.1	Develop a communications strategy to communicate parallel goals of WIP3 and local goals such as public and environmental health, economic	Hold a county-wide event (such as water week or watershed snapshot) where each partner brings something to the table Additional educational	FCCD, FCPC, Penn State Extension, Watershed Organizations, Renfrew Institute, Municipalities, School Districts, Non profits	Franklin County – multiple locations	2020	With a variety of organizational partners, could include volunteer stream monitoring, enviroscape and watershed educational		Staffing for outreach, education and coordination	State County Non- profits	Funding needed to carry out tasks	State

	development and others	programming to be defined and implemented – could include installation of BMPs for homeowners/landowners in urban and rural landscapes. Soil health and appropriate use of soil amendments in developed lands could be another.				resources, recreational opportunities. Perhaps this participation could build on activities already underway and help coordinate MS4 education and outreach objectives across municipalities.					
3.2	Utilize existing resources to engage educational objectives	Publicize and share information regarding educational resources such as online courses and webinars, Penn State Stormwater Basics, program resources such as Renfrew Institute and Pheasants Forever and volunteer resources such as Penn State Master Watershed Stewards program; Utilize existing BMP installations such as bioretention area in Chambersburg, riparian buffer plantings, pollinator meadows as teaching tools for municipalities and landowners	EPA, DEP, Chesapeake Bay related program offices, FCCD, FCPC, PennState Extension, Municipalities, PennState Extension, educational institutions and others	Countywide	2020	Through coordinating a municipal outreach and education group, resources could be shared and efficiencies gained		See 3.1	See 3.1	See 3.1	See 3.1
3.3	Develop a focused effort to promote BMPs in agricultural community	Evaluate best way to communicate innovative practices and models such as precision ag – cost/benefit tools; Consider establishing additional communities of practice such as grazing group forums so that practitioners can learn	EPA, DEP, USDA, Chesapeake Bay related program offices, FCCD, PennState Extension, 4R Alliance Capital RC&D, Farming Community, others	Countywide	2022	Through coordinating an agricultural outreach and education group, resources could be shared and efficiencies gained; could be done on wider scale with		See 3.1	See 3.1	See 3.1	See 3.1

from others				
	from others	additional	funding	

## 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, 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)