	Phase 3 Wa	tershed Imple	mentation P	lan (WIP) Pla	nning and I	Progress Template									
		Green - action ha	s been complete	ed or is moving t	forward as plar	nned <u>Yellow</u> - action	has encountered	l minor obsta	cles <u>Red</u> - a	ction has not	been taken or	has encountere	d a serious bar	rier	
Action #	Description	Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations		Resources	<u>Available</u>			Resour	ces <u>Needed</u>		Review Checklist Comments
							Technical	Source	Financial	Source	Technical	Suggested Source	Financial	Suggested Source	
Priorit	v Initiative 2	: Agriculture										Jource		Jource	
2.1	General ag- focused education and outreach supporting overall efforts	No specific target, success will be measured by implementation rates of BMPs across the ag sector Long-term metrics will be identified in game plan (late 2021)	Schuylkill County Conservation District (SCCD), Ag Technical Service Providers (TSPs), Penn State Extension, NRCS, watershed groups	All areas with emphasis provided towards prioritized catchments	On-going, with game plan in late 2021	Piggy-back existing media platforms with outreach and messaging content (game plan should identify content development tasks)	SCCD, Penn State Extension, TSPs, NRCS, Ag Preserve Board, BerksNature, County, VISION		Environmen tal Education (EE) Grant for any supporting materials and/or equipment	DEP	Final Game Plan for potential EE grant application and content develop. tasks				
2.2	Catchment Targeting Initiative (tied to P.I. 1 Catchment Targeting Initiative Action 1.1 for ag- specific details)	Metrics inherently tied to other action items (needs will be established on a catchment to-catchment basis), see P.I. 1 for more info	Ag Action Team (AT), Data Management (DM) AT, Catchment Targeting (CT) AT, Municipal AT, (Streams and Natural Resources (SaNR) AT, watershed groups, local municipalities, County, SCCD, Center for Watershed Protection (CWP), NRCS	Prioritized catchments (TBD)	Late 2021 launch with inherent tie to P.I. 1	Partner with Catchment Targeting AT during catchment prioritization efforts to identify individual catchment needs, BMP probabilities, etc. Coordinate with CWP and Berks County for Upper Little Swatara 319 Plan development Ag AT to focus on agrelated/farmer conservation needs and opportunities in prioritized or analyzed catchment groups	SCCD, County				Increased TSP presence for Soil Conserv. plans and ag BMP engineering		Funding for SC Plan development by individual catchments after analysis and inventory of needs (potentially organize plan development bid packages by each catchment), intent is to draw more TSPs into the mix; \$TBD for each catchment		

						rogress Template									
Action #	Description	Performance Target(s)	Responsible Party(ies) and Partnerships	d or is moving for Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	nas encountered minor obstacles Red - action has not b Resources <u>Available</u>				een taken or h		d a serious barri ces <u>Needed</u>	er	Review Checklist Comments
			raitherships			Recommendations	Technical	Source	Financial	Source	Technical	Suggested Source	Financial	Suggested Source	
2.3	BMP Reporting Reconciliation (tied to P.I. 5 Data Management Action 5.3 for ag specific details)		Ag AT, Data Management AT, Catchment Targeting AT	All areas (reconciliation to occur in conjunction with catchment-to- catchment assessments)	Launch late 2021 and ongoing with catchment targeting	Partner with Data Management AT for reconciliation of BMP reporting numbers (primarily through catchment targeting) Current perception/ organization of BMP targets is a mix of uncaptured/ underreported BMPs and SC plans; and additional BMP implementation. Reconciliation in conjunction with catchment targeting will provide a pathway to delineate (and capture) underreported BMPs/ SC Plans and needs for additional BMPs.									
2.4	Focused Ag BMP implementation		SCCD, NRCS, TSPs	All areas with emphasis provided towards prioritized catchments	On-going with efforts prioritized through catchment targeting (Action 2.2)	Promote broad slate of BMP types across ag industry and based on individual farm conservation needs based on initial implementation scenario Future scenario adjustments based on rates of implementation realized and progress under BMP reconciliation efforts	Farm survey, Penn State Extension, NRCS, TSPs, SCCD, Ag Preserve Board		REAP, CEG, EQIP, RCPP, MEBF, State reimb. Program, PennVEST, PL566	Various	Practice Keeper (PK) entry/ mngmnt at SCCD Increased TSPs presence NRCS data (BMPs details) Experienced technical staff		\$55,000/yr (Practice Keeper (PK)) management - individual dedicated to PK and plan entry) Capital Costs (SC Plans development only-8,000 acres): ~\$200,000 Capital Costs (all other	TBD but options include DEP, Dept. of Ag., USDA, and EPA (various existing programs may need to be augmented with other sources)	

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		Loafing Lot Management — 10 new acres Prescribed Grazing — 1,100 total acres Pasture Alt. Watering — 744 total acres Manure Storage Facilities — 17,000 new AUs Precision Feeding — 1,800 Dairy Cow AUs Mortality Composter — 4 systems				Assume increased realized and/or capture of unreported acres through catchment targeting and BMP reconc. Farmer resistance to buy-in (including farmers indicating they do not want assistance as they are unsure if they will still be in business in 2-3 years) Backlog of plans needed (including entry into PK); increase of TSPs presence would be ideal. Current plans development rate is roughly 2,000-2,500 acres/yr based on existing resources. High level review revealed roughly 25,000 acres with a SC Plan in past 10 years. Primary effort will be tied to PK entry of plans. Financial needs cost for plan development reflects 8,000 acres. Rules for transfer of info in NRCS platform to PK based on NRCS buy-in*							BMPs): ~\$27.5 million Catchment bidding platform for SC plan(s) development (see Action 2.2)		

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			•				Technical	Source	Financial	Source	Technical	Suggested Source	Financial	Suggested Source	
2.5	Soil Health BMP Implementation	Tillage Mgmnt High Residue – 15,100 acres/yr Tillage Mgmnt Conservation – 14,000 acres/yr Cover Crop Traditional – 6,000 acres/yr Cover Crop with Fall Nutrients – 9,700 acres/yr Cover Crop Commodity – 500 acres/yr	SCCD, TSPs, NRCS	All areas with emphasis provided towards prioritized catchments	On-going with intent to build upon acres in a cumulative manner through catchment assessments (Action 2.2)	Future scenario adjustments based on rates of implementation realized and progress under BMP reconciliation efforts Assume increase on implementation through catchment targeting Limited definition of cover crops and what counts as a reduction* Potential gap between FSA reporting and CAST reported data* Lock down and potentially expand transect survey process Cover crop incentive program would be ideal and would reduce barriers to initial implementation*	SCCD, Penn State Extension, NRCS, TSPs		REAP, CEG, EQIP, RCPP, MEBF, PennVEST, PL566	Various	Increased TSPs presence		Capital Cost: ~\$1.0 million Cover crop implement. Fund (incentive program)	DEP	
2.6	Expanded Nutrient Management	NM N Rate – 5,000 acres NM N Placement – 5,000 acres NM N Timing – 5,000 acres	NRCS, SCCD, TSPs	All areas with emphasis provided towards prioritized catchments	Coincides with Catchment Targeting Initiative (Action 2.2)	Aim to increase level of organization and understanding of developed, implemented, and back-logged SC plans prior to tackling expanded nutrient	SCCD, Penn State Extension, NRCS, TSPs		REAP, CEG, EQIP, RCPP, MEBF, PennVEST				Capital Cost: ~\$260,000		

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							Technical	Source	Financial	Source	Technical	Suggested Source	Financial	Suggested Source	
		5,000 acres NM P Placement – 5,000 acres NM P Timing – 5,000 acres				and approaches Approach and engage commercial vendors for messaging									
2.7	Manure Transport and Technologies	Manure Transport out of Schuylkill County – 3,942 total DT/yr Manure Treatment Technologies in Area – 100 DT/yr ESPOMA facility fully operational	Farmers, haulers, SCCD, TSPs, ESPOMA	On-going	Prior to 2025	Act 38 reporting ESPOMA facility in Frailey Twp (assume manure within Schuylkill County also transferred to facility) Mushroom composting may be an additional potential alternative for reductions*	TSPs, NRCS, SCCD, DEP, EPA						Capital Cost (transport only): ~\$35,000		

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.

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.

Phase 3 Watershed Implementation Plan (WIP) Planning and Progress Template Green - action has been completed or is moving forward as planned - action has encountered minor obstacles Red - action has not been taken or has encountered a serious barrier **Potential Review Checklist** Action Description Performance Responsible Geographic **Expected** Target(s) Party(ies) Location Timeline Implementation Comments **Resources Available Resources Needed** and **Challenges or Partnerships** Recommendations Technical Source **Financial** Source Technical Suggested **Financial** Suggested Source Source

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).