

Phase 3 Watershed Implementation Plan (WIP) Progress and Milestones 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		Progress to Date	Justification for Change to Action Item
							Technical	Financial	Technical	Financial		

Priority Initiative 1: Programmatic Initiatives

1.1	Potential formation of a Countywide Stormwater Authority	This effort could potentially establish an implementation and funding mechanism.	York County Commissioners	York County	2019 – created 2021 - active	SWA Implementation Plan to be presented to Co Commissioners in early 2019; challenge is educating and garnering support of municipalities/ public	Would provide technical support staff to implement water quality initiatives across the County	Grant for developing Implementation Plan; Grant for mapping SW assets	As determined by Implementation Plan	As determined by Implementation Plan	Stormwater Authority Implementation Plan was presented to the County Commissioners; Opted to not form an Authority at this time; Other Plan recommendations, the WQMing and additional staffing for YCCD and YCPC, are being implemented as interim measures.	
1.2	Implement County Comprehensive Plan policies and actions	Development directed to established growth areas; limited development and protection of natural resources in established rural areas	YCPC, municipalities, YCALPB, FNLT	York County	Ongoing	Educating municipalities, Updating local plans and ordinances, Growth areas not consistent with Census Urbanized Areas (MS4 Permit area is too limited)	Education, outreach	All YCPC Division Budgets	None	None	YCPC continues to implement the County Comprehensive Plan through review of municipal plans, land use ordinances, subdivision/ land development plans, permits, and grant applications; a new County Open Space & Land Preservation Committee was created to further protect ag and natural lands (YCALPB & FNLT reps serve on the Committee) The County Comprehensive Plan includes an Integrated Water Resources Plan (IWRP) component. Thus, through the review processes noted, the YCPC makes recommendations related to water quality that result in more BMPs being put on the ground that will reduce sediment and nutrients. The CAP is not only a tool to meet WIP 3 targets, but is also a tool to meet countywide water quality goals set for in the County Comprehensive Plan. Ag Conservation Plans are an integral part of land preservation easements and implementation of the Plans is continually monitored. Thus, preserving additional	

											land through the YCALPB and FNLT will help to reach our CAP target.
1.3	Establish funding/staff support to assist the Agricultural community to develop and implement plans and BMP's to meet the York County Bay goals	Accomplish Action items 2.15 through 2.33	YCPC, YCCD, Agricultural community	York County	2019 - 2025	No established statewide or county level system to track BMP reporting. Limited compliance activities by DEP. Lack of funding for staff to assist the ag community.			Experienced staff to assist ag operators to plan and implement BMPs; Staff to collect and report data.	12 staff from all sources (9 technical staff and 3 supporting administrative and data collection/ verification staff (Total: \$1.2 m per year)	As of October 2020, YCCD has filled two of three new positions for technical staff through funding allocated by the County Commissioners. Two positions are funded through the CAP agreement, the third is coming from the Open Space Preservation funding. YCCD is still looking to fill a position for a licensed engineer. The job posting is live. The other 9 positions remain unfunded. These positions do not need to be only at YCCD, other avenues could be taken.
1.4	Establish a real-time stream monitoring program	Enough real-time monitors to obtain base data and be able to trend sediment and nutrients in 8 Act 167 watersheds	York County in partnership with YCCD, SRBC & USGS	York County	2023	Funding; Sustainability; Data storage and analysis	Technical experts	In-Kind Services	County Technical/ Administrative Staff; Monitoring equipment; SRBC/USGS contracting	Funding for 2 staff persons; monitoring equipment; & SRBC/USGS contracts (\$5 million for 1 st five years)	The County implemented a real-time monitoring program in 2019 through a funding agreement with USGS. The six monitors that are installed throughout the County monitor about 90% of the flow leaving York County and are collecting continuous data to measure nitrogen, phosphorus, and sediment; Data collected is analyzed & posted on the USGS website. County is seeking funding to offset its annual cost for operations/maintenance.

Priority Initiative 2: Achieve Pollutant Reductions

2.1	Establish a set of BMPs that will achieve desired pollutant reductions in an efficient and cost effective manner (See BMP template)	Achieve required pollutant reductions	YCCD, YCPC, municipalities, DEP, EPA	York County	2025	"Sectors"/arbitrary boundaries within municipalities requiring differing/ competing regulations; lack of understanding of local issues by State/ Federal regulators AND vice versa; Permitting delays/protocol needs resolution; Need to implement programmatic changes in State template	Included under Action #1.1 on State template; Plus YCCD/ NRCS/ private consultants for ag. technical assistance	Included under Action # 1.1 on State template	Included under Action #1.1 on State template; Plus more Ag. tech. staff funding for YCCD (3 staff)	Included under Action #1.1 on State template; Plus additional \$250K annually for YCCD staff	<p>These BMP's were established in the York County CAP and are Action numbers 2.5 – 3.18. The extent of these BMP's was a stretch goal and as such will reduce 76% of the County's allocation.</p> <p>Furthermore, the CAP stresses that these BMP's will not be achieved without implementation of the Programmatic Changes recommended.</p> <p>Aside from this understanding, the Revenue Building Action Team spent April – July of 2020 developing a "funding map" spreadsheet which lists all CAP Actions, identifies a potential funding source, and takes into account the total poundage of nitrogen reduction per Action as well as price. This will be tool that will be able to help York County to determine which</p>
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											<p>implementing projects. York County Economic Alliance (YCEA) for the Codorus Beautification project. Tree plantings, education and informing land owners – which will all help to eventually reduce nutrients.</p> <p>The Watershed Alliance of York, with board members including YCPC, MWS, YCCD, planned and executed Watershed Week 2020 nearly completely virtually. Due to the nature of the event, many educational and outreach initiatives were taken.</p> <p>YCPC applied for the NFWF SWG and was awarded \$50,000 that will be used for messaging the CAP, which will help with education and outreach and help to continue to propel this Action in 2021. None of the CAP aspect is common knowledge. There needs to be education and outreach, to make landowners aware and lead them to the correct resources to implement practices</p> <p>Completed BMPs are being reported through MS4 Annual Reports, Practice Keeper, and FieldDoc.</p>	
2.4	Develop/advertise a Performance-based RFP seeking private bids to site, design, permit, install, operate, and maintain BMPs to reduce a specified amount of sediment to meet PRP goals and shortfall of WIP 3 nitrogen goals in the County.	Bid awarded and projects completed per RFP proposal	YCSWC, DEP/EPA, private consultant, landowners	York Countywide	2023	This concept has been used for MS4 Permit sediment reductions; Consider this option for meeting Nitrogen reductions for WIP 3 efforts; Highly desirable, as consultant analysis to maximize efficiency/profits would guarantee best projects	Private consultants/ YCCD staff/ YCSWC members/ DEP staff	Current limited staff funding, potentially YCSWC PRP funds	Private consulting team to site, design, build, maintain BMPs; administrative staff to manage RFP /contract/ payments; Grant staff, DEP support staff	Sufficient money for consultants to make a profit and incentivize landowners to participate; Less money needed if current MS4 PRP money could be used to meet countywide Nitrogen reduction	The YCSWC entered into a performance-based contract with ARRC in 2020 to reduce 4 million pounds of sediment and make significant strides toward meeting the Regional CBPRP 10% reduction requirement; will also help to meet CAP nitrogen reduction goal. The Performance Based RFP will reduce 1,283 lbs of Nitrogen.	
2.5	Tree Planting - Canopy	4.25 acres	YCSWC municipalities/ landowners/	Countywide	2023	Unanalyzed projects included in Regional PRP	State/County/ Municipal/ private	\$2M per year through 2023/grants	Local and State technical staff to identify/	Sufficient money to staff and support	Through projects implemented through the Penn State MWS Program in cooperation	

2.6	Bioswale	7.8 acres treated	watershed organizations YCSWC municipalities/ MWSs/ landowners	Countywide	2023	due to 9-month development deadline; MS4 PRP criteria mismatched with CB Model/WIP 3 goals; Continue to fund grant programs Unanalyzed projects included in Regional PRP due to 9-month development deadline; MS4 PRP criteria mismatched with CB Model/WIP 3 goals; Permitting delays; Continue to fund grant programs	staff/pubic agencies/ watershed organizations Current State/County/ Municipal/ private staff	\$2M per year through 2023/grants	plan/ implement analyzed projects that most efficiently achieve goals Local and State technical staff to identify/ plan/ implement analyzed projects that most efficiently achieve goals	State/local coordination to achieve State and local water quality goals Sufficient money to staff and support State/local coordination to achieve State and local water quality goals	with West Manchester Township, nearly this entire goal was completed in year 1. Financial support for these efforts typically are coming from DCNR or through our Alliance for the Chesapeake Bay partners on the Project Implementation Action Team. Other funding sources include municipalities and landowners. This project will be reported through theMS4 Annual Report. Two Regional CBPRP bioswale projects were completed that together treated 35.2 acres, which exceeds the goal for this practice; NFWF, GG, & YCSWC monies helped to fund these projects; they were reported through the MS4 Annual Report. Additional bioswale projects are planned through implementation of the Regional CBPRP. Also, bioswale projects could happen during routine development under NPDES permit.
	2.7	Forest Buffer	98.2 acres	YCSWC municipalities/ landowners/ Watershed organizations/ MWSs/ Horn Farm Center	Countywide	2023	Unanalyzed projects included in Regional PRP due to 9-month development deadline; MS4 PRP criteria mismatched with CB Model/WIP 3 goals; Permitting delays; Continue to fund grant programs	Current State/County/ Municipal/ public agencies/ private staff/ watershed organizations/ MWSs/ Horn Farm Center	\$2M per year through 2023/grants	Local and State technical staff to identify/ plan/ implement analyzed projects that most efficiently achieve goals	Sufficient money to staff and support State/local coordination to achieve State and local water quality goals

2.8	Wetland Restoration	6 acres restored	YCSWC municipalities/ landowners	Countywide	2023	Unanalyzed projects included in Regional PRP due to 9-month development deadline; MS4 PRP criteria mismatched with CB Model/WIP 3 goals; Permitting delays; Continue to fund grant programs	Current State/County/ Municipal/ private staff	\$2M per year through 2023/grants	Local and State technical staff to identify/ plan/ implement analyzed projects that most efficiently achieve goals	Sufficient money to staff and support State/local coordination to achieve State and local water quality goals	estimate BMP numbers just yet; the funds are really flexible so things could pan out different ways. But about 1/3 of the funds will be used in York, which is around \$150,000. That will mostly be used on ag BMPs to pair with around 40 acres of buffer. Through a mitigation bank project in the Codorus Watershed, 8 acres were restored. Restoration over the next 3 years will continue to come through mitigation as well as through PennDOT projects and Regional CBPRP projects. The mitigation part is for habitat, it still reduces pollutants. It is up to DEP to decide when credit will be given for these practices.	
2.9	Infiltration Basin	32.4 acres	YCSWC municipalities/ landowners	Countywide	2023	Unanalyzed projects included in Regional PRP due to 9-month development deadline; MS4 PRP criteria mismatched with CB Model/WIP 3 goals; Permitting delays; Continue to fund grant programs	Current State/County/ Municipal/ private staff	\$2M per year through 2023/grants	Local and State technical staff to identify/ plan/ implement analyzed projects that most efficiently achieve goals	Sufficient money to staff and support State/local coordination to achieve State and local water quality goals	Through the Regional CBPRP, 2 Basin Retrofit projects, together treating 90 acres, were completed and reported through the MS4 Annual Report, which appears to exceed this goal. Another Basin Retrofit project that will treat 29.2 acres is under construction. Municipal stormwater ordinances and Chapter 102 permits require stormwater to be managed on site. Infiltration Basins are a popular way to achieve this. These will be reported either as an annual MS4 project or through FieldDoc, we are still discussing the most advantageous way to do so.	
2.10	Bioretention/ Raingardens	39.5 acres treated	YCSWC/ municipalities/ MWSs/ landowners	Countywide	2023	Unanalyzed projects included in Regional PRP due to 9-month development deadline; MS4 PRP criteria mismatched with CB Model/WIP 3 goals; Permitting delays; Continue to	Current State/County/ Municipal/ MWSs/ private staff/ volunteers	\$2M per year through 2023/grants	Local and State technical staff to identify/ plan/ implement analyzed projects that most efficiently achieve goals	Sufficient money to staff and support State/local coordination to achieve State and local water quality goals	Through the Regional CBPRP, 1 Bioretention BMP treating 12.8 acres was completed with funding assistance through NFWF & YCSWC; it was reported through the MS4 Annual Report. 2 projects that will together treat 33.8 acres are underway and another project scheduled for 2021 will treat 25.1 acres. Additionally, Municipal stormwater ordinances require projects less than 1 acre to manage stormwater on site. This Action	

						fund grant programs					is popular for such projects and typically an effort completed by the MWS and/or homeowners. This is a task that our Data Management and Project Implementation action teams are working out the best way to collect this data
2.11	Stormwater Performance Standard- Stormwater Treatment	216.48 acres treated	YCSWC municipalities/ landowners	Countywide	2023	Unanalyzed projects included in Regional PRP due to 9-month development deadline; MS4 PRP criteria mismatched with CB Model/WIP 3 goals; Permitting delays; Continue to fund grant programs	Current State/County/ Municipal/ private staff	\$2M per year through 2023/grants	Local and State technical staff to identify/ plan/ implement analyzed projects that most efficiently achieve goals	Sufficient money to staff and support State/local coordination to achieve State and local water quality goals	Through the Regional CBPRP, a filter strip with soil amendments & conservation landscaping will treat 5 acres. This project is currently under design & funded through a GG Grant. Upon completion, this project will be reported through the MS4 Annual Report. Additional progress towards this Action is being completed through municipal ordinance requirements. See FieldDoc for numerical details of such projects.
2.12	Stormwater Performance Standard - Runoff Reduction	0.34 acres treated	YCSWC/ municipalities/ landowners	Countywide	2023	Unanalyzed projects included in Regional PRP due to 9-month development deadline; MS4 PRP criteria mismatched with CB Model/WIP 3 goals; Permitting delays; Continue to fund grant programs	Current State/County/ Municipal/ private staff	\$2M per year through 2023/grants	Local and State technical staff to identify/ plan/ implement analyzed projects that most efficiently achieve goals	Sufficient money to staff and support State/local coordination to achieve State and local water quality goals	The YCCD worked with Wrightsville Borough to develop the County's first green street project. The Limekiln Alley improvement in the Borough is a 670 foot green street project. This design is capable of handling up to 5 inches of rain per hour, with the first inch being absorbed in the ground & the rest being filtered through a black sheet, then through 18 inches of stone and a perforated pipe, before going into the stormwater drain. Pervious brick pavers, as well as concrete wheel pads for vehicles completed the project. See FieldDoc for numeric details.
2.13	Urban Stream Restoration	56,688 linear feet restored	YCSWC/ municipalities/ landowners/ watershed organizations/ PennDOT	Countywide	2023	Unanalyzed projects included in Regional PRP due to 9-month development deadline; MS4 PRP criteria mismatched with CB Model/WIP 3 goals; Permitting delays; Need for watershed permit; willing landowners,	Current State/County/ Municipal/ private staff	\$2M per year through 2023/grants	Local and State technical staff to identify/ plan/ implement analyzed projects that most efficiently achieve goals	Sufficient money to staff and support State/local coordination to achieve State and local water quality goals	Through the Regional CBPRP, 4,643 LF of urban stream restoration was completed with funding assistance from NFWF, GG, Local SW BMP Grant & YCSWC. These projects were reported through MS4 Annual Reports. An additional 20,643 LF, of stream restoration is either underway or scheduled, which includes the 2 projects awarded York County CAP BMP Implementation funds & scheduled, per the funding agreement, to be completed before 6/30/2021 as follows:

						Continue to fund grant programs					<p>Hallam Borough – Beaver Street Stream/Swale Restoration includes 800LF of stream restoration and 125LF of swale restoration on an unnamed tributary to Kreutz Creek. Due to an unexpected delay with issuance of the USACE permit and construction restrictions due to the stream being classified as a wild trout stream, project bidding for construction was postponed to December 2020, with award to be made in February 2021.</p> <p>Penn Township – Center Street Stream Restoration includes 500LF of stream restoration on Oil Creek. Construction is underway & expected to be completed by the end of 2020.</p> <p>See FieldDoc for non-CBPRP numerical details.</p>	
2.14	Nutrient Management Plan (urban)	50,000 acres	State legislation	Statewide, regulated and unregulated urban areas	2025	Failure to pass legislation	None, Program does not currently exist	None, Program does not currently exist	State technical staff to develop guidance and requirements related to credits in CB Model	Sufficient money to staff and support State/local coordination to achieve State and local water quality goals	Achievement of this depends either on volunteer homeowner action and/or legislative action. Currently unregulated.	
2.15	Land Retirement to Ag Open Space	1,500 acres retired	Landowners/ Operators, Federal/State/ local agencies, Private consultants	York County	2025	Lack of economic/ regulatory incentives; insufficient resources for data collection, design, implementation and verification	Federal/State /local agency trained staff, private company trained staff	Federal/State /local agency grants/ programs, private grants; Also Ag Land Preservation Board and Farm/Natural Lands Trust	12 dedicated trained staff to educate, sell programs to farmers/ landowners, develop plans , and implement BMPs	\$1.2M annually for dedicated staff (12 at \$100,000 each)	See FieldDoc for numerical details. Ideally, marginal Ag land should be target for completion of this Action. As individual farmers that retire some of their land, unless they notify, we will not know. If numbers are not reported to FieldDoc, we need to uncover where they are reported through. We need to determine how Land Retirement is being captured. The programs could help us to identify where the Land Retirement has occurred. Other ways this goal will be reached are through Ag preserve programs, farm and natural lands and open space program.	
2.16	Nutrient Management Core N	185,000 acres	Landowners/ operators, Federal/State/ local agencies,	York County	2025	Lack of economic/ regulatory incentives; insufficient	Federal/State / local agency trained staff, private	Federal/State /local agency grants/	See Action #2.15 for needs to implement Ag BMP Action	Included in \$1.2M annually for 12 dedicated	See FieldDoc for numerical details. Looking at forming partnership with 4R Alliance as this is a big opportunity for York County nutrient reduction. 4R Alliance is in	

			Private consultants, fertilizer suppliers			resources for data collection, design, implementation and verification; need coordination with fertilizer reps; landowner participation	company trained staff	programs, private grants	#’s 2.15 thru 2.33	staff from Action # 2.15	progress of outreaching to and educating farmers. Potential funding for this Action includes: state nutrient management act program, manure management plans, CD (open space program and county funding), landowners, agencies, NRCS. The concept has been accepted and we will be submitting a joint funding application to the Community Foundation early 2021.	
2.17	Nutrient Management Core P	88,400 acres	Landowners/operators, Federal/State/local agencies, Private consultants, fertilizer suppliers	York County	2025	Lack of economic/regulatory incentives; insufficient resources for data collection, design, implementation, and verification; need coordination with fertilizer reps; landowner participation	Federal/State/local agency trained staff, private company trained staff	Federal/State/local agency grants/programs, private grants	See Action #2.15 for needs to implement Ag BMP Action #’s 2.15 thru 2.33	Included in \$1.2M annually for 12 dedicated staff from Action # 2.15	See FieldDoc for numerical details. Looking at forming partnership with 4R Alliance as this is a big opportunity for York County nutrient reduction. 4R Alliance is in progress of outreaching to and educating farmers. Plans are captured through Practice Keeper and through NRCS system. There is no known other mechanism for reporting Plans. Potential funding for this Action includes: state nutrient management act program, manure management plans, CD funding, landowners, agencies, NRCS.	
2.18	Nutrient Management N Rate	88,400 acres	Landowners/operators, Federal/State/local agencies, Private consultants, fertilizer suppliers	York County	2025	Lack of economic/regulatory incentives; insufficient resources for data collection, design, implementation and verification; need coordination with fertilizer reps; landowner participation	Federal/State/local agency trained staff, private company trained staff	Federal/State/local agency grants/programs, private grants	See Action #2.15 for needs to implement Ag BMP Action #’s 2.15 thru 2.33	Included in \$1.2M annually for 12 dedicated staff from Action # 2.15	See FieldDoc for numerical details. Looking at forming partnership with 4R Alliance as this is a big opportunity for York County nutrient reduction. 4R Alliance is in progress of outreaching to and educating farmers. Potential funding for this Action includes: state nutrient management act program, manure management plans, CD funding, landowners, agencies, NRCS.	
2.19	Nutrient Management N Timing	88,400 acres	Landowners/operators, Federal/State/local agencies, Private consultants, fertilizer suppliers	York County	2025	Lack of economic/regulatory incentives; resources for data collection, design, implementation, and verification; coordination with fertilizer reps; landowner participation	Federal/State/local agency trained staff, private company trained staff	Federal/State/local agency grants/programs, private grants	See Action #2.15 for needs to implement Ag BMP Action #’s 2.15 thru 2.33	Included in \$1.2M annually for 12 dedicated staff from Action # 2.15	Looking at forming partnership with 4R Alliance as this is a big opportunity for York County nutrient reduction. 4R Alliance is in progress of outreaching to and educating farmers. Potential funding for this Action includes: state nutrient management act program, manure management plans, CD funding, landowners, agencies, NRCS.	

2.20	Tillage Management-High Residue	90,000 acres	Landowners/operators, Federal/State/local agencies, Private consultants	York County	2025	Lack of economic/regulatory incentives; insufficient resources for data collection, design, implementation, and verification	Federal/State/local agency trained staff, private company trained staff	Federal/State/local agency grants/programs, private grants	See Action #2.15 for needs to implement Ag BMP Action #'s 2.15 thru 2.33	Included in \$1.2M annually for 12 dedicated staff from Action # 2.15	See FieldDoc for numerical details. Potential funding for this Action includes: state nutrient management act program, manure management plans, CD (open space program and county funding), landowners, agencies, NRCS.	
2.21	Tillage Management-Conservation	35,000 acres	Landowners/operators, Federal/State/local agencies, Private consultants	York County	2025	Lack of economic/regulatory incentives; insufficient resources for data collection, design, implementation, and verification	Federal/State/local agency trained staff, private company trained staff	Federal/State/local agency grants/programs, private grants	See Action #2.15 for needs to implement Ag BMP Action #'s 2.15 thru 2.33	Included in \$1.2M annually for 12 dedicated staff from Action # 2.15	The goal for this Action has been exceeded in year 1. See FieldDoc for numerical details. Potential funding for this Action includes: state nutrient management act program, manure management plans, CD (open space program and county funding), landowners, agencies, NRCS.	
2.22	Cover Crops Traditional	55,000 acres planted	Landowners/operators, Federal/State/local agencies, Private consultants	York County	2025	Lack of economic/regulatory incentives; insufficient resources for data collection, design, implementation, and verification	Federal/State/local agency trained staff, private company trained staff	Federal/State/local agency grants/programs, private grants	See Action #2.15 for needs to implement Ag BMP Action #'s 2.15 thru 2.33	Included in \$1.2M annually for 12 dedicated staff from Action # 2.15	See FieldDoc for numerical details. Potential funding for this Action includes: conservation plans, CEG, EQUIP, CSP (conservation stewardship program), REAP, RCPP. The CEG program being administered by YCCD will be particularly helpful towards this Action. Other partners include the Farm Bureau, MWS, etc. The actionable outcomes is the BMP is implemented and reported through Practice Keeper.	
2.23	Animal Waste Management System	3,000 animal units	Landowners/operators, Federal/State/local agencies, Private consultants	York County	2025	Lack of economic/regulatory incentives; insufficient resources for data collection, design, implementation, and verification	Federal/State/local agency trained staff, private company trained staff	Federal/State/local agency grants/programs, private grants	See Action #2.15 for needs to implement Ag BMP Action #'s 2.15 thru 2.33	Included in \$1.2M annually for 12 dedicated staff from Action # 2.15	See FieldDoc for numerical details. Potential funding for the Action includes: conservation plans, CEG, EQUIP, REAP, RCPP, PENNVEST, EXELON.	
2.24	Barnyard Runoff Control	70 acres	Landowners/operators, Federal/State/local agencies, Private consultants	York County	2025	Lack of economic/regulatory incentives; insufficient resources for data collection, design, implementation, and verification	Federal/State/local agency trained staff, private company trained staff	Federal/State/local agency grants/programs, private grants	See Action #2.15 for needs to implement Ag BMP Action #'s 2.15 thru 2.33	Included in \$1.2M annually for 12 dedicated staff from Action # 2.15	See FieldDoc for numerical details. Potential funding for the Action includes: conservation plans, CEG, EQUIP, REAP, RCPP, PENNVEST, EXELON.	
2.25	Precision Intensive Rotational/ Prescribed Grazing	16,000 acres	Landowners/operators, Federal/State	York County	2025	Lack of economic/regulatory incentives;	Federal/State/local agency	Federal/State/local agency grants/	See Action #2.15 for needs to implement	Included in \$1.2M annually for 12 dedicated	See FieldDoc for numerical details. Potential funding for the Action includes: conservation plans (pasture management	

			/local agencies, Private consultants			insufficient resources for data collection, design, implementation, and verification	trained staff, private company trained staff	programs, private grants	Ag BMP Action #'s 2.15 thru 2.33	staff from Action # 2.15	practices come from plans), Capital RC+D, same as above.	
2.26	Non Urban Stream Restoration	5,000 linear feet restored	Landowners/operators, Federal/State (DEP)/ local agencies, Private consultants	York County	2025	Lack of economic/regulatory incentives; resources for data collection, design, implementation and verification; DEP permitting system delays/protocol needs resolution	Federal/ State/ local agency trained staff, private company trained staff	Federal/State /local agency grants/ programs, private grants	See Action #2.15 for needs to implement Ag BMP Action #'s 2.15 thru 2.33	Included in \$1.2M annually for 12 dedicated staff from Action # 2.15	See FieldDoc for numerical details. Potential funding for the Action includes: CEG, EQUIP, REAP, PENNVEST, EXELON, DCNR, Growing Greener, 319.	
2.27	Grass Buffer (ag)	6,000 acres	Landowners/operators, Federal/State/ local agencies, Private consultants	York County	2025	Lack of economic/regulatory incentives; Insufficient resources for data collection, design, Implementation, and verification; Develop simpler variation of CREP program	Federal/ State/ local agency trained staff, private company trained staff	Federal/State /local agency grants/ programs, private grants	See Action #2.15 for needs to implement Ag BMP Action #'s 2.15 thru 2.33	Included in \$1.2M annually for 12 dedicated staff from Action # 2.15	See FieldDoc for numerical details. Potential funding and implementation of this Action include: CEG, EQUIP, REAP, PENNVEST, EXELON, DCNR, Buffer My Stream, CBF, Alliance for Bay, Game Commission, MWS Program.	
2.28	Forest Buffer (ag)	6,000 acres	Landowners/operators, Federal/State/ local agencies, Private consultants	York County	2025	Lack of economic/regulatory incentives; Insufficient resources for data collection, design, implementation, and verification; Develop simpler variation of CREP program	Federal/ State /local agency trained staff, private company trained staff	Federal/State /local agency grants/ programs, private grants	See Action #2.15 for needs to implement Ag BMP Action #'s 2.15 thru 2.33	Included in \$1.2M annually for 12 dedicated staff from Action # 2.15	See FieldDoc for numerical details. Potential funding and implementation of this Action include: CEG, EQUIP, REAP, PENNVEST, EXELON, DCNR, Buffer My Stream, CBF, Alliance for Bay, Game Commission, MWS Program.	
2.29	Manure Incorporation	10,000 acres	Landowners/operators, Federal/State/ local agencies, Private consultants	York County	2025	Lack of economic/regulatory incentives; Insufficient resources for data collection, design, implementation, and verification	Federal/ State/ local agency trained staff, private company trained staff	Federal/State /local agency grants/ programs, private grants	See Action #2.15 for needs to implement Ag BMP Action #'s 2.15 thru 2.33	Included in \$1.2M annually for 12 dedicated staff from Action # 2.15	A system for collecting this information is unknown. Reporting of manure incorporation happens through manure and nutrient management plans, utilizing Practice Keeper to report Manure Incorporation is sufficient but it is important to note that nothing from those plans are specific about how the manure is	

											worked in. The law does not say that it needs to be tilled in. There is no specific way to account for acres of manure incorporated. Potential funding and implementation for this Action includes: conservation plans, nutrient plans, nutrient management programs	
2.30	Off Stream Watering without fencing	500 acres served	Landowners/ operators, Federal/State/ local agencies, Private consultants	York County	2025	Lack of economic/ regulatory incentives; insufficient resources for data collection, design, implementation, and verification	Federal/ State/ local agency trained staff, private company trained staff	Federal/State /local agency grants/ programs, private grants	See Action #2.15 for needs to implement Ag BMP Action #'s 2.15 thru 2.33	Included in \$1.2M annually for 12 dedicated staff from Action # 2.15	Potential funding and implementation for this Action includes: conservation plans, nutrient plans, nutrient management programs, Capital RC+D, CREP. See Action 2.25	
2.31	Tree Planting	100 acres planted	Landowners/ operators, Federal/State/ local agencies, Private consultants	York County	2025	Lack of economic/ regulatory incentives; insufficient resources for data collection, design, implementation, and verification	Federal/ State/ local agency trained staff, private company trained staff	Federal/State /local agency grants/ programs, private grants	See Action #2.15 for needs to implement Ag BMP Action #'s 2.15 thru 2.33	Included in \$1.2M annually for 12 dedicated staff from Action # 2.15	Financial support for these efforts typically are coming from DCNR or through our Alliance for the Chesapeake Bay partners on the Project Implementation Action Team. Other funding sources include municipalities and landowners.	
2.32	Soil Conservation and Water Quality Plans	180,000 acres under conservation	Landowners/ operators, Federal/State/ local agencies, Private consultants	York County	2025	Lack of economic/ regulatory incentives; insufficient resources for data collection, design, implementation, and verification; lack of regulatory oversight and follow through	Federal/ State/ local agency trained staff, private company trained staff	Federal/State /local agency grants/ programs, private grants	See Action #2.15 for needs to implement Ag BMP Action #'s 2.15 thru 2.33	Included in \$1.2M annually for 12 dedicated staff from Action # 2.15	See FieldDoc for numerical details. Other partners include the Farm Bureau, MWS, etc. The actionable outcomes is the BMP is implemented and reported through PracticeKeeper. Ag plans are reported through Practice Keeper. Plans are documented through funding sources (YCCD, NRCS, DEP reimbursement) or Land Preservation programs. Potential funding and implementation for this Action include: funding for getting plans written, CEG, cost share money for farmers to pay for consultants, county funding, nutrient management program, Ag reimbursement program, REAP	
2.33	Wetland Restoration – Floodplain (ag)	12 acres established	Landowners/ operators, Federal/State/ local agencies, Private consultants	York County	2025	Lack of economic/ regulatory incentives; insufficient resources for data collection, design, implementation,	Federal/ State/ local agency trained staff, private company trained staff	Federal/State /local agency grants/ programs, private grants	See Action #2.15 for needs to implement Ag BMP Action #'s 2.15 thru 2.33	Included in \$1.2M annually for 12 dedicated staff from Action # 2.15	Potential funding and implementation for this Action include: CREP, EQUIP, wetland reserve program, CEG, Growing Greener, EXELON, 319, consultants and mitigation projects, NRCS.	

						and verification; permitting delays/protocol needs resolution						
Priority Initiative 3: York County Conservation District Clean Water/Healthy Watersheds Program												
3.1	Erosion & Sediment Control Level 2	2,500 acres	YCCD	Countywide	2019-2025	DEP enforcement	4 staff			Enforcement		See FieldDoc for numerical details. See numbers reported to DEP. Need more consistent enforcement.
3.2	Dirt & Gravel Road (DGR) Erosion & Sediment Control- Driving Surface Aggregate + Raising the Roadbed [includes Low Volume Road (LVR) projects]	31,680 feet	YCCD	Countywide	2019-2025	Timely DEP GP-11 reviews	1 staff	\$623,801/yr			Double State Conservation Commission LVR annual allocation	See FieldDoc for numerical details. See SCC GIS numbers. The District has already committed the 2020-21 DGR and LVR funding allocations toward projects to be completed next year.
3.3	Dirt & Gravel Road Erosion & Sediment Control - Driving Surface Aggregate with Outlets (includes LVR projects)	168,960 feet	YCCD	Countywide	2019-2025	Timely DEP GP-11 reviews	Included under Action #3.2				Included under Action #3.2	See FieldDoc for numerical details. See SCC GIS numbers. The District has already committed the 2020-21 DGR and LVR funding allocations toward projects to be completed next year.
3.4	Dirt & Gravel Road Erosion & Sediment Control - Outlets only (includes LVR projects)	31,680 feet	YCCD	Countywide	2019-2025	Timely DEP GP-11 reviews	Included under Action #3.2				Included under Action #3.2	See FieldDoc for numerical details. See SCC GIS numbers. The District has already committed the 2020-21 DGR and LVR funding allocations toward projects to be completed next year.
3.5	Forest Buffer	20 acres	YCCD	Countywide	2019-2025	Dedicated education & outreach staff	0.5 staff	\$225,000/yr	0.5 staff		\$25,000/yr	See FieldDoc for numerical details. See PracticeKeeper.
3.6	Forest Buffer- Streamside with Exclusion Fencing	2.5 acres	YCCD	Countywide	2019-2025	Dedicated education & outreach staff	Included under Action #3.5	Included under Action #3.5		Included under Action #3.5	Included under Action #3.5	See FieldDoc for numerical details. Need willing landowners. Targeted outreach will provide further coordination and education to local stakeholders and landowners, through the use of various forms of media, literature, public outreach, and in-person meetings, to make them aware of the variety of practices the District's Exelon Habitat Improvement Program can fund.
3.7	Grass Buffer – Streamside with Exclusion Fencing	5 acres	YCCD	Countywide	2019-2025	Dedicated education & outreach staff	Included under Action #3.5	Included under Action #3.5		Included under Action #3.5	Included under Action #3.5	See FieldDoc for numerical details. Need willing landowners. Targeted outreach will provide further coordination

3.8	Forest Buffer – Narrow with Exclusion Fencing	2.5 acres	YCCD	Countywide	2019-2025	Dedicated education & outreach staff	Included under Action #3.5	and education to local stakeholders and landowners, through the use of various forms of media, literature, public outreach, and in-person meetings, to make them aware of the variety of practices the District’s Exelon Habitat Improvement Program can fund. See FieldDoc for numerical details. Need willing landowners. Targeted outreach will provide further coordination and education to local stakeholders and landowners, through the use of various forms of media, literature, public outreach, and in-person meetings, to make them aware of the variety of practices the District’s Exelon Habitat Improvement Program can fund.			
3.9	Grass Buffer – Narrow with Exclusion Fencing	5 acres	YCCD	Countywide	2019-2025	Dedicated education & outreach staff	Included under Action #3.5	See FieldDoc for numerical details. Need willing landowners. Targeted outreach will provide further coordination and education to local stakeholders and landowners, through the use of various forms of media, literature, public outreach, and in-person meetings, to make them aware of the variety of practices the District’s Exelon Habitat Improvement Program can fund.			
3.10	Grass Buffer	5 acres	YCCD	Countywide	2019-2025	Dedicated education & outreach staff	Included under Action #3.5	See FieldDoc for numerical details. Need willing landowners. Targeted outreach will provide further coordination and education to local stakeholders and landowners, through the use of various forms of media, literature, public outreach, and in-person meetings, to make them aware of the variety of practices the District’s Exelon Habitat Improvement Program can fund.			
3.11	Grass Buffer- Narrow	5 acres	YCCD	Countywide	2019-2025	Dedicated education & outreach staff	Included under Action #3.5	See FieldDoc for numerical details. Need willing landowners. Targeted outreach will provide further coordination and education to local stakeholders and landowners, through the use of various forms of media, literature, public outreach, and in-person meetings, to make them aware of the variety of practices the			

											District's Exelon Habitat Improvement Program can fund.
3.12	Non Urban Stream Restoration - Floodplain	73,500 linear feet	YCCD	Countywide	2019-2025	Timely DEP GP-1 & GP-3 reviews	Included under Action #3.5	See FieldDoc for numerical details. See PracticeKeeper.			
3.13	Urban Stream Restoration	7,000 linear feet	YCCD	Countywide	2019-2025	Timely DEP GP-1 & GP-3 reviews	Included under Action #3.5	See FieldDoc for numerical details. See PracticeKeeper.			
3.14	Wetland Restoration - Headwater	7 acres	YCCD	Countywide	2019-2025	Timely DEP GP-1 & GP-3 reviews	Included under Action #3.5	See FieldDoc for numerical details. Need willing landowners. Targeted outreach.			
3.15	Wetland Restoration - Floodplain	7 acres	YCCD	Countywide	2019-2025	Timely DEP GP-1 & GP-3 reviews	Included under Action #3.5	See FieldDoc for numerical details. Need willing landowners. Targeted outreach.			
3.16	Wetland Creation - Floodplain	7 acres	YCCD	Countywide	2019-2025	Timely DEP GP-1 & GP-3 reviews	Included under Action #3.5	Need willing landowners. Targeted outreach.			
3.17	Wetland Creation - Headwater	7 acres	YCCD	Countywide	2019-2025	Timely DEP GP-1 & GP-3 reviews	Included under Action #3.5	Need willing landowners. Targeted outreach.			
3.18	Wetland Enhancement	7 acres	YCCD	Countywide	2019-2025	Timely DEP GP-1 & GP-3 reviews	Included under Action #3.5	Need willing landowners. Targeted outreach.			

Phase 3 Watershed Implementation Plan (WIP) Progress and Milestones 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.

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).

Progress to Date = This field will be used for annual reporting on priority initiatives. This is a description of the action(s) your county took toward achieving the priority initiative. Examples include education and outreach, programmatic changes, etc. For numeric priority initiatives your county can retrieve those numbers directly from *FieldDoc* or put in the column "See *FieldDoc*."

Justification for Change to Action Item = This field will be used for two-year milestone updates. This field allows for your county to adjust your original targets and goals based on progress to date. Your county may adjust goals and targets up or down based on your progress to date. This field requires a justification as to the reason of change, whether up or down.