Phase 3 Watershed Implementation Plan (WIP) Planning and Progress Reporting Date: June 1, 2020 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 Description Action # Performance Target(s) Responsible Geographic **Expected Potential Implementation** Resources **Resources Progress to Date** Justification for Party(ies) and **Challenges or** Location Timeline **Available** Needed **Change to Action Item Partnerships** Recommendations **Technical and Technical and Financial Financial** Priority Initiative 1: Communications and Outreach Section 2, State Action, Numeric Commitments 2.1.1A Continue communication, outreach 306,196 acres in PDA, SCC, CDs, Chesapeake Bay December 2025 and stewardship programs to conservation tillage; CCAs, Private increase the use of conservation 805,778 acres in no-till Consultants, Penn tillage and no-till practices. State Extension, No Till Alliance, Farmland Preservation, Local Farmland Trusts/Conservanci es, PA Farm Bureau 547,695 acres with fall Challenges include CBP 2.1.2A Continue communication, outreach PDA, SCC, CDs, Chesapeake Bay December 2025 and stewardship programs to nutrients, traditional CCAs, Private definition of cover crop and increase implementation of cover Consultants, Penn the inability to report cover crop; 161,601 acres commodity cover crop via crops. of land without fall State Extension, No Till Alliance, transect survey methodology. nutrients, traditional cover crop; 124,106 acres Farmland no fall nutrients and Preservation, Local harvested crop Farmland Trusts/Conservanci es. PA Farm Bureau 2.1.3A NRCS, Penn State Challenges include CBP 180,201 acres of land Continue communication, outreach and stewardship programs to used for pasture would Extension, Private definition of Prescribed follow NRCS Prescribed increase implementation of Consultants, CDs Grazing and non-alignment pasture management. **Grazing Plan or Resource** with PA State regulatory Improvement Practice. requirements under Chapter 91 Manure Management and Chapter 102 Ag E&S. 2.1.4A Communicate with EPA Region 3 DEP, SCC, EPA Provide status updates Statewide Quarterly Agricultural Liaison, Ag Permitting, related to agricultural Compliance and Enforcement Staff programs and BMP implementation 2.1.1F 85,000ac. of forest buffers DCNR, DEP, PSC, By 2022 Coordination, scheduling, lack Implement a comprehensive Chesapeake Bay communication/outreach strategy planted on agricultural RFBAC, PA WIP III of funding for to engage farmers/landowners in lands, and 3,100 acres of marketing/communications/o Forestry planting and maintaining riparian forest buffers on utreach/education, etc. Workgroup, SCC, forest buffers. developed/non-ag lands. PDA, PSU, etc. 2.1.2F 5K acres of "Urban Forest PRPS, DCNR, DEP, Chesapeake Bay By 2023 Brand new program-Implement a Coordination, scheduling, lack communication/outreach program Expansion" (turf to trees) agencies and to engage a variety of turf owners of funding, etc. + 5K acres of partners,

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	to plant trees and meadows on their properties.	"Conservation Landscaping" (turf to meadow).	municipalities and parks, etc.						
2.1.3F	Communicate the importance and values of forests and farmland to facilitate and encourage state and local land conservation programs.	Increase conserved lands both in the headwaters of the PA Chesapeake Bay watershed and near developing areas.	DCNR, DEP, PALTA, etc.	Chesapeake Bay	By 2023	Coordination, scheduling, lack of funding.			
2.1.4F	Emphasize the full range of benefits & co-benefits of stream and wetland restoration to facilitate additional implementation.	Increased acres of wetlands created and restored to approximately 400 acres annually; increased feet of stream restoration projects implemented to approximately 60,000 linear feet annually.	DEP and appropriate NGO partners.	Chesapeake Bay	By 2023	Coordination, scheduling, lack of funding.			
2.1.15	Continue to engage with municipalities and others on the benefits of implementing and maintaining stormwater management practices through web-based trainings, in-person meetings, workshops, etc.	Implementation of stormwater BMPs within MS4 PRPs, construction stormwater permits, and developed areas outside of the scope of the permitting programs	DEP, PMAA, CCAP, Conservation Districts, Penn State	Chesapeake Bay	Ongoing				
2.1.2\$	Provide more awareness of the expanded opportunities for BMP implementation in connection with the MS4 permit requirements	Demonstrate success in improvements to local water quality using the MS4 Flexibilities	DEP, EPA	Statewide	Begins October 2019				
2.1.35	Track and incentivize MS4 and nonpoint source coordination and collaboration	Document utilization of MS4 and nonpoint source flexibility through PRPs and Annual Reports Incentivize collaborative approaches through Countywide Action Plan (CAP) development and implementation funding and support	DEP, Chesapeake Bay Counties, MS4s	Statewide	Begins October 2019				
2.1.45	Continue dialogue with EPA regarding expanding opportunities for MS4 implementation		DEP, EPA	Statewide	Ongoing				
Section 3, 0	Countywide Actions								
3.1.1	Develop communications and outreach strategy for staged approach to WIP planning and implementation in all counties.	Webinars and calls to provide overview of WIP, define the expectations, and discuss next steps with Tier 3 & 4 counties. Designed to prepare these counties for the second phase of the WIP process.	DEP, Technical Coordinator, Bay office, Agencies Outreach, Communication contractor, Communication	Tier 3 & 4 counties	Begins August 2020	Participation and engagement from Tier 3 & 4 counties. DEP/state staffing limitations Federal funding for Tier 2 and Pilot Counties was not provided in a timely manner,	See Funding and Resources Section, Resources Needed Phase 2 columns below	See Funding and Resources Section, Resources Needed Phase 2 columns below	

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			and Engagement Workgroup, External Contractor			thereby pushing our schedule with Tier 3 and 4 counties back.			
3.1.2	Conduct outreach via webinars and one-on-one meetings to provide overview of WIP, define the expectations, and discuss next steps to prepare counties for the WIP planning process.	Tier 3 & 4 counties will explore the potential of forming regionalized planning groups of 2-4 counties. Regional planning groups will begin their regionalized planning process with an assigned external coordinator for focused outreach and engagement to county stakeholders.	DEP, Technical Coordinator, Bay office, Agencies Outreach, Communication contractor, Communication and Engagement Workgroup, External Contractor	Tier 3 & 4 counties	Begins August 2020 (following the completion of Tier 2 county planning)	Regionalized planning still requires counties to submit an individual county plan. State staffing support Federal funding for Tier 2 and Pilot Counties was not provided in a timely manner, thereby pushing our schedule with Tier 3 and 4 counties back.	See Funding and Resources Section, Resources Needed Phase 2 columns below	See Funding and Resources Section, Resources Needed Phase 2 columns below	
3.1.3	Begin implementation of WIP plans completed by four pilot counties.	Assign an external coordinator to each Tier 2 county to assist with WIP planning and implementation efforts.	DEP, Technical Coordinator, Bay office, Agencies Outreach, Communication contractor, Communication and Engagement Workgroup, External Contractor	Tier 2 Counties	Begins January 2020	State staffing support Internal and External Coordination Federal funding for Tier 2 and Pilot Counties was not provided in a timely manner, thereby pushing our schedule with Pilot counties back.	See Funding and Resources Section, Resources Needed Phase 1 & 2 columns below	See Funding and Resources Section, Resources Needed Phase 1 & 2 columns below	
3.1.4	Seek staffing to support this large- scale coordination and support effort.	An external coordinator will work one on one with the pilot counties to begin the implementation of their countywide action plan.	DEP, Technical Coordinator, Bay office, Agencies Outreach, Communication contractor, Communication and Engagement Workgroup, External Contractor	Pilot Counties	Begins January 2020	State staffing support Internal and External Coordination Federal funding for Tier 2 and Pilot Counties was not provided in a timely manner, thereby pushing our schedule with Tier 3 and 4 counties back.	See Funding and Resources Section, Resources Needed Phase 1 columns below	See Funding and Resources Section, Resources Needed Phase 1 columns below	
Section 10	Communication and Engagement Str	rategy							
10.1.2	Develop the outreach materials, webinars, templates for letters and mailings and success stories identified by the Communications and Engagement Workgroup for their use in message delivery and outreach.	Final materials will be distributed to the C& E Workgroup materials as they are finished for their use.	DEP/DCNR/PDA Communication Office, DEP CBO		As needed		\$200,000		

10.1.3	Finalize the DEP Web-based StoryMap.	Final StoryMap	DEP Communication Office		March 2020	\$20,000	
10.1.4	Schedule and participate in focus groups, forums and workshops, as appropriate.	Presentations and summaries of such events and the input provided will be shared as appropriate.	C & E Workgroup members; DEP/DCNR/PDA Communication Offices, DEP CBO	Chesapeake Bay	As needed		
10.1.5	Communications and Engagement Workgroup members will use the delivery tools developed to reach their respective constituents through mailings, newsletters, their respective websites, conferences, workshops, etc. about the importance of clean water and the goals of the Phase 3 WIP.	Mailings, newsletters, websites, conferences and workshops of C&E Workgroup are utilized as appropriate to convey the message developed.	C & E Workgroup members; DEP/DCNR/PDA Communication Offices, DEP CBO	Chesapeake Bay	Between now and 2025		
	nitiative 2: Funding and Res						
	tate Action, Programmatic and Narra						
2.2.1	Pass legislation providing a funding source or combination of funding sources for the implementation of the Phase 3 WIP.	PA Farm Bill - The Conservation Excellence Grant provides grants, loans, and tax credits to incentivize agricultural BMPs in priority geographies as found within the WIP. Keystone Tree Fund – This fund will go toward DCNR's tree planting	PDA, DCNR,DEP, State Legislature, Governor's Office		2019-2020 Session		
2.2.1(i)	Incentivize implementation of Agriculture BMPs that comprise 60% and/or 10-fold increase of the nitrogen reductions through complementary local, state, federal, non-profit and private funding programs	initiatives Initiate Conservation Excellent Grant Program, to include bundling grants with REAP tax credits and low-interest loans in Tier 1 Counties. Expand funding of REAP tax credits and prioritize in Chesapeake Bay Watershed. Initiate Chesapeake Bay Ag Inspection Program — Phase 2, to include providing cost-share to farmers that are yet to be	PDA, SCC, DCNR, DEP, PENNVEST, EPA, NRCS, Pilot, Tier 1 and Tier 2 counties, non-profit and private entities		Beginning July 2020		

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		or have been inspected, in select counties.				
		Continue Agriculture Plan				
		Reimbursement Program to cost-share the				
		development of privately				
		written agricultural plans (Agriculture Erosion and				
		Sediment Control, Manure Management).				
		Coordinate with NRCS to identify and prioritize				
		funding through RCPP, EQIP, CREP, and other				
		federal funding programs.				
		Prioritize up to 50% of				
		Growing Greener funding to nutrient and sediment				
		reducing practices in the				
		Chesapeake Bay Watershed.				
		Pilot Center for Water				
		Quality Excellence, which				
		will provide financial assistance and technical				
		guidance, in Tier 1 Counties.				
		Prioritize EPA CBIG funds				
		for riparian forest buffer				
		and agriculture BMP implementation in Tier 1				
		and 2 counties.				
		Utilize EPA "Most				
		Effective Basin" (MEB) funds to cost-share				
		implementation of agriculture BMPs in				
		geographic areas of highest impact in the				
		Chesapeake Bay				
		Watershed.				
2.2.2	Identify the process and develop	Policy and procedures and	DEP, Comptroller's	Fall 2019		
	specific procedures for the award	a grant agreement developed for use in the	Office			
	of "block grants" to the lead	developed for use in the				

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	planning teams for the implementation of the CAPs.	development and award of grants to counties in the implementation of the CAPs						
2.2.3	Initiate allocation of funding utilizing "block grants" to the lead planning and implementation teams of the CAPs	Allocate state and federal funding to Pilot and Tier 2 counties to fund coordinators as well as to accelerate the implementation of their CAPs. Allocate state and federal funding to Tier 3 and 4 counties once CAPs are developed. Best Management Practices in the CAPs focus on reductions for agricultural, stormwater, and forestry/natural sectors.	DEP, Comptroller's Office		Begins January 2020			
2.2.4	Continue to work with NFWF to fund the Local Government Implementation (LGI) grants	Assist with the development of RFP and review of applications	DEP		Begins February 2020			
2.2.5	Engage with other jurisdictions regarding interstate trading and cross-jurisdictional financing (e.g. Conowingo)	••	DEP, PennVest		2021			
2.2.6	Investigate the potential for and implementation of short-term, low-interest, loans and other financing streams for agricultural projects		PennVest, PDA, DEP		2021			
Section 2. S	tate Action, Numeric Commitments	·			I.			
2.2.1A	Investigate the incorporation of alternative manure treatment technologies and other potential strategies to address areas of excess manure nutrient generation and capital investment required for implementation of manure treatment systems.	Identify various strategies to minimize nutrient imbalances in areas of excess manure nutrient generation, including the	PDA, SCC, DEP Nutrient Trading Program, NRCS	Chesapeake Bay counties that are identified to have excess manure generated for crop need	December 2025	Capital investment, cost effectiveness, and modeled nutrient reduction effectiveness is of concern.		
2.2.1A(i)	Prioritize and/or incentivize increased manure transport and manure transport implementation and tracking in counties, such as Lancaster County, that have been identified through CBPO Modeling		DEP, SCC, PDA, Lancaster County		Beginning 2020	Tracking and auditing of manure hauler/broker records		

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	Tools to be in excess of organic nutrients							
2.2.1F	Maximize existing funding sources for riparian forest buffer implementation in Pennsylvania.	Fully utilize existing funding sources for buffer implementation and maintenance annually, including federal, state, and private programs (esp. under-utilized programs such as REAP).	DEP (GG, 319), UDSA (CREP+), SCC (REAP), DCNR (C2P2) TreePennsylvania (TreeVitalize) CBF (K10), etc.	Chesapeake Bay	Ву 2025	Rigid programs, existing restrictions, coordination, lack of understanding about all individual programs, etc. Lack of funds to start a new program.		
2.2.2F	Expand TreeVitalize and utilize other programs to facilitate community tree planting and maintenance.	50 New Acres of New Urban Trees (300 trees = 1 acre)	Tree Pennsylvania, DCNR, PSU, municipal partners, etc.	Chesapeake Bay	By 2022	Coordination, scheduling, lack of funding.		
2.2.3F	Create additional, flexible funding options for riparian forest buffers.	Develop new, innovative PA (or Ches. Bay) funding source and mechanism for Buffers, including incentive programs for landowners utilizing buffer co-benefits such as wildlife habitat, income/product potential, flood mitigation, etc. Streamline funding source similar to DCNR's NFWF-Funded Stream ReLeaf program.	All agencies and partners	Chesapeake Bay	Ongoing/ASAP	Innovation, Funding, Coordination, etc.		
2.2.4F	Ensure that riparian forest buffers are adequately maintained to ensure survival by developing a Maintenance funding source for NGOs to develop their own maintenance programs.	Develop a Riparian Forest Buffer Maintenance funding source to create the capacity for NGOs to develop their own maintenance programs for new and alreadyimplemented buffers (up to 5 years after initial planting).	All agencies and partners involved in riparian forest buffer implementation	Chesapeake Bay	Ongoing	Lack of interest in funding maintenance from traditional funding sources as it does not result in "new" load reductions.		
2.2.5F	Continue and Increase Urban Tree Canopy Grants to Communities and non-governmental organization Partners	Utilize and increase	DCNR, Tree Pennsylvania, PRPS	Chesapeake Bay	Ongoing	Current Funding does not meet demand. Processes, procedures, and administration.		

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	Connect this work to DCNR's Climate Plan.						
Leverage existing funding sources for Stream and Wetland Restoration.	Explore potential to improve leveraging of EQIP, CFA and REAP programs to support creditable/conforming stream and wetland restoration implementation, management and	DEP, NRCS, SCC, NGOs, DCNR, Universities, etc.	Chesapeake Bay	Ongoing	Strict program regulations, lack of knowledge about existing programs and creditable BMPs, etc.		
Develop funding opportunities for turf conversion programs.	Include Conservation Landscaping as an eligible BMP in existing conservation grant programs. Seek new innovative funding sources and mechanisms. Explore funding opportunities tied to flood mitigation.	DCNR, TreePennsylvania, TreeVitalize, DEP, etc.	Chesapeake Bay	By 2021	Time, finding funding sources, etc.		
Continue to implement stream restoration, emphasizing creditable, load-reducing projects. Pair stream restoration projects with tree planting BMPs whenever possible. Identify areas that may have a high cost-to-benefit ratio for load reductions from legacy sediment removal and associated ecosystem restoration.	Identify areas that would benefit from Legacy Sediment Removal and Ecosystem Restoration throughout priority areas of the watershed	DEP, CDs, Watershed Organizations, Private sector companies or NGOs working on remote sensing tools		Beginning 2020	Capital investment for design/implementation is of concern.		
Countywide Actions							
Phase 1 (Pilot and Tier 2 counties): Provide 8 – Community Clean Water Coordinators (External Full Time position) Phase 2 (Tier 3 & 4 counties): Provide 13 – Community Clean Water Coordinators (External Full Time position)	would be assigned to individual Tier 1 & 2 counties in phase 1, and to regionalized Tier 3 & 4 counties in phase 2. External Coordinators would be DEP contractors reporting to the DEP Internal Coordinators. Serve as the point of contact to their assigned county(ies). They would support county efforts to develop and implement	DEP External Contractor County Planning Offices County Conservation Districts Other County Partners	Chesapeake Bay	Phase 1: Begins in January 2020 Phase 2: Begins in August 2020	Internal and External Coordination Federal funding for Tier 2 and Pilot Counties was not provided in a timely manner in order to begin Phase 1. This pushed the schedule back for both Phase 1 and Phase 2.	Total: 21 – Community Clean Water Coordinators \$2,100,000 (\$100,000 per coordinator) Phase 1: 8 – Community Clean Water Coordinators \$800,000 Phase 2: 13 – Community Clean Water	
	for Stream and Wetland Restoration. Develop funding opportunities for turf conversion programs. Continue to implement stream restoration, emphasizing creditable, load-reducing projects. Pair stream restoration projects with tree planting BMPs whenever possible. Identify areas that may have a high cost-to-benefit ratio for load reductions from legacy sediment removal and associated ecosystem restoration. Countywide Actions Phase 1 (Pilot and Tier 2 counties): Provide 8 – Community Clean Water Coordinators (External Full Time position) Phase 2 (Tier 3 & 4 counties): Provide 13 – Community Clean Water Coordinators (External Full Time position)	Leverage existing funding sources for Stream and Wetland Restoration. Explore potential to improve leveraging of EQIP, CFA and REAP programs to support creditable/conforming stream and wetland restoration implementation, management and monitoring. Develop funding opportunities for turf conversion programs. Develop funding opportunities for turf conversion programs. Contrinue to implement stream restoration, emphasizing conservation grant programs. Seek new innovative funding sources and mechanisms. Explore funding opportunities tied to flood mitigation. Continue to implement stream restoration, emphasizing creditable, load-reducing projects. Pair stream restoration projects with tree planting BMPs whenever possible. Identify areas that may have a high cost-to-benefit ratio for load reductions from legacy sediment removal and associated ecosystem restoration. Countywide Actions Phase 1 (Pilot and Tier 2 counties): Provide 3 – Community Clean Water Coordinators (External Full Time position) External coordinating staff would be assigned to individual Tier 1 & 2 counties in phase 1, and to regionalized Tier 3 & 4 counties in phase 2. External Coordinators would be DEP contractors reporting to the DEP Internal Coordinators. Serve as the point of contact to their assigned county(ies). They would support county efforts to	Leverage existing funding sources for Stream and Wetland Restoration. Explore potential to improve leveraging of EQIP, CFA and REAP programs to support creditable/conforming stream and wetland restoration implementation, management and monitoring. Develop funding opportunities for turf conversion programs. Develop funding opportunities for turf conversion programs. Develop funding opportunities for turf conversion programs. Continue to implement stream programs. Seek new innovative funding sources and mechanisms. Explore funding opportunities tied to flood mitigation. Continue to implement stream restoration projects. Pair stream restoration projects with tree planting BMPs whenever possible. Identify areas that may have a high cost-to-benefit ratio for load reductions from legacy sediment removal and associated ecosystem restoration. Phase 1 (Pilot and Tier 2 counties): Provide 8 — Community Clean Water Coordinators (External Full Time position) Phase 2 (Tier 3 & 4 counties): Provide 13 — Community Clean Water Coordinators (External Full Time position) External coordinators (External Full Time position) DEP, NRCS, SCC, NGOs, DCNR, Universities, etc. DCNR, TreePennsylvania, TreeVitalize, DEP, etc. DCNR, TreePennsylvania, TreeVitalize, DEP, etc. DCNR, TreePennsylvania, TreeVitalize, DEP, etc. Vatershed Onganizations, Private sector companies or NGOs working on remote sensing tools DEP, CDs, Watershed Organizations, Private sector companies or NGOs working on remote sensing tools External coordinating staff would be assigned to individual Tier 1 & 2 counties in phase 1, and to regionalized Tier 3 & 4 counties in phase 2. External Coordinators would be DEP contractors reporting to the DEP Internal Coordinators. Serve as the point of contact to their assigned county(ies). They would support county efforts to develop and implement	Leverage existing funding sources for Stream and Wetland Restoration. Explore potential to programs and Wetland restoration. Explore funding opportunities for turf conversion programs. Develop funding opportunities for turf conversion programs. Include Conservation Landscaping as an eligible BMP in existing conservation grant programs. Seek new innovative funding sources and mechanisms. Explore funding opportunities tied to flood mitigation. Identify areas that would benefit from Legacy Sediment Removal and Ecosystem Restoration throughout priority areas of the watershed External Coordinating staff would be assigned to individual Tier 1 & 2 country wide Actions Phase 1 (Pilot and Tier 2 counties): Provide 8 – Community Clean Water Coordinators (External Full Time position) Phase 2 (Tier 3 & 4 counties): Provide 3 – Community Clean Water Coordinators (External Full Time position) External Coordinators (External Full Time position) External Coordinators (External Full Time position) DEP, NRCS, SCC, NGOs, DCNR, Universities, etc. DENR, TreePennsylvania, TreeVitalize, DEP, etc. DEP, CDS, Watershed Water Shed Wa	DCNR's Climate Plan. Explore potential to improve leveraging of EQIP, CFA and REAP programs to support creditable/conforming stream and wetland restoration implementation, management and monitoring.	Leverage existing funding sources for Stream and Wetland Restoration. Source storage existing funding sources for Stream and Wetland Restoration. Source states and wetland Restoration. Develop funding opportunities for turf conversion programs. Include Conservation Landscaping as an eligible BMP in existing conservation gram programs. Seek new innovative funding sources and mechanisms. Explore funding opportunities led to flood mitigation. Londing the funding sources and mechanisms. Explore funding opportunities led to flood mitigation. Londing the funding sources and mechanisms. Explore funding opportunities led to flood mitigation. Londing the funding sources and mechanisms. Explore funding opportunities led to flood mitigation. Londing the funding sources are the would be sessing to flood mitigation. Londing the funding sources are the would be sessing to flood mitigation. Londing the funding sources are the would be sessing to flood mitigation. 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						\$1,300,000	
3.2.2	Phase 1:	Internal Coordinators:	DEP	Phase 1:	State staffing support	Total:	
	Provide 3 – Community Clean	Would be DEP employees.		Begins in January		10 – Community	
	Water Coordinator (Full Time	Internal Coordinators		2020	Internal and External	Clean Water	
	Internal Coordinator Position)	would serve as the point			Coordination	Coordinator	
		of contact and provide		Phase 2:		\$1,000,000	
	Phase 2:	WIP coordination for DEP		Begins in August	Phase 1 – internal	(\$100,000 per	
	Provide 7 – Community Clean	and all other state		2020	coordinators were on-	coordinator)	
	Water Coordinator (Full Time	agencies for external			boarded beginning January	Phase 1:	
	Internal Coordinator Position)	coordinator and technical			2020	3 – Community	
		coordinators.				Clean Water	
						Coordinator	
						\$300,000	
						Phase 2:	
						7 – Community	
						Clean Water	
						Coordinator	
						\$700,000	
3.2.3	Phase 1:	Technical Coordinator: A	Technical	Phase 1:	State staffing support	Total:	
0.2.0	Provide 2 – Clean Water Technical	DEP contractor reporting	Contractor	Begins in July	otate starming support	10 – Clean	
	Assistance Coordinators (Full Time	to the DEP Internal	30	2019	Internal and External	Water Technical	
	Technical Coordinator	Coordinator. The			Coordination	Assistance	
		Technical Coordinator		Phase 2:		Coordinators	
	Phase 2:	would be responsible for:		Begins in August	Technical coordinators will	\$900,000	
	Provide 8 – Clean Water Technical	for providing information		2020	have varied workloads.	(\$90,000 per	
	Assistance Coordinators (Full Time	and facilitation of				coordinator)	
	Technical Coordinator	planning tools through the			Phase 1: preparation for		
		planning and			Phase 1, to include		
		implementation process,			development of tools (guides,		
		assist with reporting and			toolboxes, web-based		
		tracking of milestones			reporting systems, training)		
		annual progress, assist in			was on schedule.		
		model runs for plan					
		development and during					
		annual milestone updates.					
3.2.4	Phase 1:	Facilitation Coordinator: A	Facilitation	April 2019	State staffing support	1 – Clean Water	
	Provide 1 – Clean Water	DEP contractor reporting	Coordinator	p		Facilitation	
	Facilitation Coordinator (Full Time	to the DEP Internal	333.4.1.333.		Internal and External	Coordinator	
	Facilitation Coordinator Position)	Coordinator.	DEP		Coordination	\$100,000	
3.2.5	Phase 1:	Outreach Coordinator: A	Outreach	April 2019	State staffing support	1 – Clean Water	
2. _	Provide 1 – Clean Water Outreach	DEP contractor reporting	Coordinator	p 2020		Outreach	
	Coordinator (Full Time Outreach	to the DEP Chesapeake			Internal and External	Coordinator	
	Contractor)	Bay Office, in coordination	DEP		Coordination	\$100,000	
	25 40.0.,	with WIP Communication			230. 44	7.200,000	
		and Engagement					
		and Engagement					

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		Workgroup and DEP						
		Communication Office.						
Priority	Initiative 3: Expanding Capac	city for Technical Ass'	istance					
Section 2, 5	State Actions, Programmatic and Narra	rative Commitments						
2.3.1	Water Quality Excellence concept	will be released and	DEP, Pennvest	Lancaster and York	RFP done April 2020 Pilot done			
		awardee put in place. Assistance will be provided to landowners and municipalities to complete projects.			Summer 2021			
		Assistance includes outreach and resources (both technical and financial) to municipalities and farmers to implement	The state of the s					
0		BMPs.						
-	Climate Change	2: 1 11	TEC Darie Chata	or reside	. 1 2020			
9.3.1	Climate Change Impacts on Pennsylvania's Watershed	key questions that will be used to more effectively	·	Statewide	July 2020			
	Management Strategies and Water Quality Goals	select and target practices that will address climate resiliency goals.						
	State Actions, Numeric Commitments							
2.3.1A		guidance, application, and on-farm assessment tools; 3 rd party verification		Chesapeake Bay	July 2020			
		process, pilot program; and release program for initial implementation						
2.3.2A	alternative methods to support and assess compliance with regulations without use of regulatory entities	implementation of agricultural plans and	DEP	Chesapeake Bay – Animal Producers	December 2025			
2.3.3A	Management Systems	for 90% of swine/poultry operations; 75% of all	NRCS, CDs, Private Consultants, Swine and Poultry Integrators	Chesapeake Bay – Animal Producers	December 2025	Need to amount of licensed P.E's and those with job approval authority in order to meet PA regulatory requirements for liquid storages. Need to increase number of qualified engineers for solid storages.		

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2.3.4A	Develop web-based and in-person training for Manure Management Planning and Agriculture Erosion and Sediment Control Planning	Finalize Soil Erosion and Sedimentation Control Manual for Agricultural Operations technical guidance (383-4200-002) and train conservation districts and consultants.	DEP, Penn State Extension, SCC, NRCS	Statewide	September 2020	TGD finalized and released October 2019. Training in development.		
2.3.5A	Focus agricultural technical assistance and financial resources in areas of highest need and impact to the Chesapeake Bay, to include targeted watershed approach		DEP, SCC, PDA	Chesapeake Bay	Beginning July 2020			
2.3.1F	Increase technical assistance available to landowners interested in implementing riparian forest buffers.	Create both new Commonwealth staff positions and new positions at partner organizations, and increase entrepreneurial opportunities for forest buffer work.	DCNR, PDA, DEP, SCC, DCED, etc.	Chesapeake Bay	Ongoing	Funding, overhead, space, capacity, available candidates, on-boarding process, hiring process, etc.		
2.3.2F	Increase Urban Forestry Technical Assistance Available to Communities and Citizens.	Fund positions within the Commonwealth system and with partner organizations.	DCNR, TreePennsylvania, Penn State Extension, PHS, etc.	Chesapeake Bay	Ongoing	Funding, overhead, space, capacity, available candidates, on-boarding process, hiring process, etc.		
2.3.3F	Create a turf-conversion technical assistance program.	Identify existing subject matter experts in native grassland and meadow establishment to evaluate and design a new program, technical guidance/specifications, etc. then create new Commonwealth positions to provide technical support to landowners.	DCNR, Alliance for the Chesapeake Bay, Pheasants Forever, PGC, TreePennsylvania, PSU, etc.	PA Bay-wide	By 2022	Creating a new program- start-up costs, time, approvals, budgets, etc.		
2.3.4F	Provide informed technical assistance for stream and wetland restoration projects to ensure they are completed in an adequate, reportable manner.	Ensure that county and agency field staff are trained to support potential creditable wetland restoration opportunities. Integrate trainings into existing, well-attended courses.	NRCS, CCDs, SCC, PDA, DEP, DCNR, TNC, and other NGOs.	PA Bay-wide	Ongoing	Training, staff capacity, etc.		

2.3.5F	Expand the PFBC Stream Restoration Initiative, implementing stream restoration projects resulting in load reductions with habitat co- benefits, to counties in the southcentral region of the state, starting with one or more of the four pilot counties to include Adams, Franklin, Lancaster and York.	Expand model in Northcentral Region and work with partners in Franklin County to start a similar initiative in the Southcentral Region. This starts with the creation of new positions within the PFBC.	DEP, PFBC	NC, SC regions	January 2020	EPA diverted funds to PFBC in order to hire additional staff.		
2.3.1\$	Complete revisions to the Pennsylvania Stormwater BMP Manual		DEP, Villanova University and subcontractor	Statewide	2021			
2.3.1W	Wastewater Plant Performance Technical Assistance	Perform enhanced technical assistance to wastewater treatment facilities to support reduced nutrient loadings from these facilities. DEP reports progress every 6 months to EPA for grant outputs and outcomes.	DEP	Chesapeake Bay	December 2020			
2.3.1W(i)	Wastewater Plant Performance Technical Assistance	Purchase of equipment and supplies to provide enhanced technical assistance and perform servicing and calibration of equipment	DEP		September 2021			
2.3.1W(ii)	Wastewater Plant Performance Technical Assistance	Provide training related to reducing nutrient loads for wastewater treatment facility staff for a total of eight facilities			September 2021			
•	nitiative 4: Reporting and T							
	tate Actions, Programmatic and Nar	rative Commitments						
2.4.1	Pass legislation to revise Pennsylvania's Right to Know Law to allow for additional confidentiality of landowner records.				2020-2021 Legislative Session			
2.4.2	Develop a planning and prioritization tool for use in the development and refinement of the CAPs.	A final tool available to county planning teams for use in the prioritization and tracking of practices and future planning	DEP, EPA, Chesapeake Conservancy	Chesapeake Bay	2020			
2.4.3	Work with the Chesapeake Bay Program Partnership, Water Quality Goal Implementation		DEP, EPA, Chesapeake Bay	Chesapeake Bay	Begin March 2020			

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	Team, to elicit support for a joint		Program					
	remote sensing project with other		Partnership					
	jurisdictions		. arenersing					
	jurisuictions							
2.4.4	Continue enhancements to		DEP	Statewide	Ongoing			
	PracticeKeeper to capture							
	agricultural and other source							
	sector BMPs as well as compliance							
	·							
	and inspection tracking and							
	reporting.							
2.4.5	Update the Pennsylvania BMP		DEP, EPA	Chesapeake Bay	Annually, as			
	Verification Plan and Quality				needed			
	Assurance Program Plan (QAPP)							
2.4.6	Work with EPA and the	Finalized crediting	DEP, Bay Program		January 2021	Buy in from the Chesapeake		
2.4.0		_			January 2021			
	Chesapeake Bay Program	protocol that considers all	Partnership			Bay Program Partnership		
	Partnership to enhance the existing							
	crediting protocols for programs	programs not currently						
	and practices that improve water	getting credit in the						
	quality in Pennsylvania not	Chesapeake Bay						
	currently getting full credit in the	Watershed Model that						
	Chesapeake Bay Watershed Model.	improve water quality in						
		Pennsylvania. This						
		includes but is not limited						
		to compensatory						
		mitigation, land						
		conservation practices						
		-						
		related to mine						
		reclamation, dairy						
		precision feeding, etc.						
2.4.7	Install additional monitoring	Monitoring station(s) and	DEP Bureau of	Susquehanna	January 2021		1 person	
	station(s) and begin to collect	water quality results.	Clean Water	River	,		\$600,000	
	"real-time water quality data on	tracer quanty results.	Cicaii Water	1			φοσο,σσο	
	, ,							
	the Susquehanna River to further							
	document the story of progress							
	made by Pennsylvania's efforts to							
	restore local streams and the							
	Chesapeake Ba as part of							
	implementation of the Phase 3 WIP							
2.4.9	·	Incorporato parfarras	DED Durage of	Charanaska Davi	Doginaina laguare			
2.4.8	Updates to the Nutrient Credit	Incorporate performance-	DEP Bureau of	Chesapeake Bay	Beginning January			
	Trading Program – Nutrient Trading		Clean Water		2020			
	Tool	through the Chesapeake						
		Bay Nutrient Trading Tool						
		(CBNTT) for transparent,						
		interactive, site-specific,						
		and regionally consistent						
		methodology linked to the						
		Chesapeake Bay modeling						
		tools, for calculating						
		nutrient credits that can						
		be generated from						
		nonpoint sources and						
		1						
		used by point sources to						

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		meet NPDES permit obligations in a cost- effective way More detail can be found in DEP's workplan for the Chesapeake Bay Implementation Grant. DEP reports progress every 6 months to EPA for grant outputs and outcomes.						
2.4.8(i)	Continue to implement 3:1 trading ratio for nonpoint source (NPS) credit generation and trading until performance-based or other method-based tool (e.g. CBNTT) is established	This interim policy has been in use and is documented in the Phase 2 WIP Nutrient Trading Supplement found on DEP's Nutrient Trading website	DEP Bureau of Clean Water	Chesapeake Bay	Ongoing			
2.4.9	Continue to work with the Federal Facilities Workgroup and Federal Facilities to report BMPs installed and maintained and finalize local planning goals		EPA, DEP, DoD	Chesapeake Bay	Ongoing			
Section 2, S	tate Actions, Numeric Commitments	5						
2.4.1A 2.4.2A	Work with the Chesapeake Bay Program Partnership to establish a creditable practice or combination of practices for implementation of advanced soil health strategies or plans on farms in the Chesapeake Bay Watershed Model for future crediting of these initiatives. Once established as a practice or set of practices that can be credited for progress in the model, commit additional funding or the technical and financial assistance necessary to implement these practices.	Assess and report	PDA, Dairy Co-ops,		January 2021 December 2025	Buy in from the Chesapeake Bay Program Partnership Voluntary program. Need to		
2.4.2A	Expand reporting of dairy precision feeding	implementation of dairy precision feeding for 175,000 Animal Units (approximately 152,000 milking cows)	PDA, Dairy Co-ops, PACS Program, Dairy Nutritionists, PA Dairyman's Assoc., CDs, NRCS			Voluntary program. Need to have the ability to track and report what dairy farmers are already doing.		
2.4.3A	Expand reporting of Enhanced Nutrient Management	64,640 acres with no manure applied would be managed based on a nitrogen and phosphorus based nutrient management plan;	4R Nutrient Stewardship Alliance, PACS, CCAs, CDs, SCC, DEP		December 2025	Voluntary program. Need to have the ability to track and report what farmers are already doing.		

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2.4.4A	Expand reporting of grass buffers	64,640 acres with no manure applied would be managed with nutrient management plans to meet nitrogen and phosphorus requirements as well as supplemental practices based on rate, timing, and placement for nitrogen and phosphorus. Tracking of acres with manure applied, where the land would be managed with nutrient management plans to meet nitrogen and phosphorus requirements as well as supplemental practices based on rate, timing, and placement for nitrogen and phosphorus 50,000 acres of land adjacent to streams for establishment of grass	NRCS, DEP, CDs		December 2025	Costs associated with on-site inspection to determine grass buffers; use of aerial imagery		
		buffers at least 35 feet in width				a potential		
2.4.5A	Inventory existing agricultural BMPs and BMP needs through survey, agricultural planning, and inspection programs, focusing on geographic areas through the Tiered approach		PDA, SCC, DEP, CDs, Penn State Exension, NRCS, USGS, EPA		Beginning Spring 2020			
2.4.1F	Ensure adequate tracking of partner-implemented forestry BMPs including forest buffers, tree canopy, conservation landscaping, urban forest expansion, stream wetland restoration.	Develop mechanism to capture partner reported and privately funded buffers and other BMPs, with appropriate QA/QC processes, enabling those BMPs to be properly credited.	DEP, DCNR, PDA, SCC, EPA, PACD, NGOs, Farm Organizations, NRCS, PSU	PA Bay-wide	Ongoing	QA/QC of partner data, system access, etc.		
2.4.2F	Celebrate successful implementation and maintenance of forestry BMPs through reporting successful efforts.	Generate broad understanding and acceptance of watershed restoration efforts and how they improve quality of life in PA communities through reporting successful efforts, resulting in a greater appetite for forestry and all BMPs. Broader	All agencies and partners.	PA Bay-wide	Ongoing	Report generation, digestible messaging, continual messaging, etc.		

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2.4.15	Collect Municipal Separate Storm	acceptance and appetite for these BMPs will make outreach and implementation less time- intensive, less expensive processes. Implement use of MS4 e-	DEP, MS4s	Statewide	2020			
	Sewer System (MS4) BMP data using the new reporting systems for electronic submission for annual reports and inspections	Inspection application. Complete e-reporting system for annual reports by December 2020	DEI , 141343					
2.4.2\$	Initiate and collect stormwater BMP data from other DEP programs implementing provisions of the Chapter 102 regulations, to include required post-construction stormwater management.			Statewide	2020			
2.4.35	Continue to track MS4 PRP submission, review, and approval.	Internal report is updated and maintained on a quarterly basis and provided to regional staff as well as DEP executive team	DEP Bureau of Clean Water		Ongoing			
2.4.1W	Explore the feasibility of developing a GIS based online monitoring and reporting program that municipalities can use to report on-lot system operation and maintenance.		DEP					
Section 3.	Countywide Actions							
3.4.1	Track and report progress in Phase 3 WIP planning and implementation in all counties.	Development of Countywide Action Plans (CAPs) in all counties in Pennsylvania's Chesapeake Bay Watershed.	DEP, Local planning leaders, External Coordinators	All Counties in CBWS	Phase 1 Begins July 2019 Phase 2 Begins Feb 2020	State staffing support Internal and External Coordination		
3.4.2	Update reductions in the County Planning Progress template upon completion of each county plan.	Completion of Countywide Action Plans (CAPs) in all counties in Pennsylvania's Chesapeake Bay Watershed.	DEP, Local planning leaders, External Coordinators	All Counties in CBWS	Phase 1 Begins January 2020	State staffing support Internal and External Coordination		
3.4.3	Track and report progress to continue implementation of the Phase 3 WIP State Numeric Commitments described in Section 4, State Actions in the counties with minimal reductions.	Completion of Countywide Action Plans (CAPs) in all counties in Pennsylvania's Chesapeake Bay Watershed.	DEP, Local planning leaders, External Coordinators	All Counties in CBWS	Phase 2 Begins August 2020	State staffing support Internal and External Coordination		
3.4.4	Amend the Phase 3 WIP to incorporate the additional CAPs that are developed (Phase 1 and 2)	Completion of Countywide Action Plans (CAPs) in all counties in	DEP	Phase 1: Tier 2 Counties	Phase 1: December 2020	State staffing support		

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		Pennsylvania's		Phase 2: Tier 3	Phase 2:	Internal and External		
		Chesapeake Bay		and 4 Counties	December 2021	Coordination		
		Watershed						
Driority I	nitiativo E: Compliance		1					
-	nitiative 5: Compliance							
Section 2, St	tate Actions, Programmatic and Narr	rative Commitments						
2.5.1	Pass the Fertilizer Bill to achieve				2019-2020			
	the identified nutrient reductions				Legislative Session			
	on urban and agriculture lands.							
2.5.2	Review, consider and potentially	Incorporate revised P	SCC, Penn State,	Statewide	July 2020			
	incorporate a revised Phosphorus	index tool into future	DEP, NRCS					
	Index into the planning	nutrient management						
	requirements for land application	planning efforts where						
	of biosolids.	approved for use						
2.5.3	Develop State Agency nutrient	Completed State Agency	DEP, DCNR, Other	Watershed-	January 2021			
	reduction planning goals and the	Action Plans for the	Agencies	wide				
	associated Action Plans for meeting	reduction of nutrients on	responsible for the					
	those planning goals for the	lands owned and	management of					
	installation of practices on lands	operated by state	state lands,					
	owned and maintained by state	agencies.	Governor's Office					
	agencies.							
Section 2, S	tate Actions, Numeric Commitments	6						
2.5.1A	Implement NPDES Concentrated	Permit 100% of all CAFOs	DEP		Ongoing			
	Animal Feeding Operation (CAFO)	(350+ operations in						
	Program Delegation	Chesapeake Bay						
	0 0	Watershed); Inspection						
		metrics and results are						
		provided to EPA annually						
		per the required						
		Compliance Monitoring						
		Strategy. EPA also						
		requires NPDES						
		permitting and						
		compliance information to						
		be provided by DEP for						
		ICIS database inclusion.						
2.5.2A	Complete complaint follow-up for		DEP, SCC, CDs		Ongoing			
	CAFO and non-CAFO facilities							
2.5.3A	Implement Chesapeake Bay	Inspect 10% of the	DEP, CDs	Chesapeake Bay	Ongoing			
	Agriculture Inspection Program,	agricultural acreage						
	Phase 1, with an emphasis on	annually. More						
	meeting state planning	information can be found						
	requirement on non-CAFO	in our Standard Operating						
	operations.	Procedure published on						
		DEP's website.						
		Additionally, progress is						
		reported to EPA every 6						
		months per the						
		Chesapeake Bay						
		Regulatory and						
		Accountability Program						
		grant.						

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2.5.4A	Implement Chesapeake Bay Agriculture Inspection Program, Phase 2 Pilot, with an emphasis on meeting both state planning and implementation requirements on non-CAFO operations.		DEP, SCC, CDs, NRCS, Private Consultants	Chesapeake Bay	Beginning July 2020	Available funding for Technical Assistance and construction of BMPs remains a concern.		
2.5.1\$	Complete the Pollutant Reduction or Total Maximum Daily Load Plan Reviews for the 2018 Municipal Separate Storm Sewer System (MS4) permits	Complete technical review and issue permits	DEP, MS4 permittees	Statewide	2020	MS4s not addressing DEP review comments, staff shortages		
2.5.2\$	Develop the 2023-2028 NPDES MS4 Permit	In the development of this permit, provide opportunities for input from stakeholders, including but not limited to the Phase 3 WIP Stormwater Workgroup, as part of the normal public participation process.	DEP	Statewide	2019 through 2022			
2.5.3\$	Continue to implement the NPDES Municipal Stormwater Program Delegation, to include permitting, compliance, inspection, and enforcement.	Inspection metrics and results are provided to EPA annually per the required Compliance Monitoring Strategy. EPA also requires NPDES permitting and compliance information to be provided by DEP for ICIS database inclusion.	DEP	Statewide	Ongoing			
2.5.4\$	Develop the NPDES Industrial Stormwater Permit	Tels database metasion.	DEP	Statewide	2019 through 2021			
2.5.5\$	Continue to implement the NPDES Industrial Stormwater Program Delegation, to include permitting, compliance, inspection, and enforcement.	Inspection metrics and results are provided to EPA annually per the required Compliance Monitoring Strategy. EPA also requires NPDES permitting and compliance information to be provided by DEP for ICIS database inclusion.						
2.5.6\$	Continue to implement the NPDES Construction Stormwater Program Delegation, to include permitting, compliance, inspection, and enforcement.	Pennsylvania's Chapter 102 requires NPDES permitting for an acre or more of earth disturbance related to construction activities. The requirements also include	DEP	Statewide	Ongoing			

							FINAL 6/1/2020
		post-construction stormwater management on all permitted sites. Inspection metrics and results are provided to EPA annually per the required Compliance Monitoring Strategy. EPA also requires NPDES information to be provided by DEP for ICIS database inclusion.					
2.5.1W	Continue to implement the NPDES Sewage and Industrial Waste Program Delegation, to include permitting, compliance, inspection, and enforcement	Inspection metrics and results are provided to EPA annually per the required Compliance Monitoring Strategy. EPA also requires NPDES permitting and compliance information to be provided by DEP for ICIS database inclusion.	DEP	Statewide	Ongoing		

Phase 3 Watershed Implementation Plan (WIP) Planning and Progress Reporting 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).