			on has been comp			Potential		tered minor obsta Resources	s <u>Available</u>				es <u>Needed</u>	
Action	Description	Performance Target(s)	Partners	Geographic Location	Expected Timeline	Implementation Challenges or Recommendations	Technical	Source	Financial	Source	Technical	Suggested Source	Financial	Suggeste Source
# Driori	-								Financiai	Source	Technical	Source	Fillancial	Source
1.1A	ty Initiative 1: (Ensure that	Planning	Blair		1		1	1		4 – FTE Clean	Dianning	\$520,000 per	DEP
1.1A	Implement County		•	Countywide	ongoing	Educating municipalities,	Education, outreach	Planning			Water	Planning Commission	· · ·	DEP
	Comprehensive Plan policies and	growth activities address existing	Commissions, growth	Countywide			outreach	Commission			Coordinator	COMMISSION	year	
	actions	water quality	boundary	Cambria		Updating local plans and					for Planning			
	actions	impairments	municipalities,	County –		ordinances,					Commission			
		through	Southern	Chesapeake		Growth areas not					commission			
		stormwater BMP	Alleghenies	Bay Portion		consistent with								
		implementation	Bicycle and	only		Census Urbanized								
		already required	Pedestrian	<i>y</i>		Areas								
		by local	Plan, ACT 167	Fulton										
		ordinance	Plans,	Countywide										
			Huntingdon											
		Protect natural	County	Huntingdon										
		resources,	Heritage Plan,	Countywide										
		protect wetlands	Fulton County											
		through use of	Heritage Plan,											
		zoning	Convention											
		ordinances	and Visitors											
			Bureau,											
		Promote the	Chamber of											
		inclusion of	Commerce,											
		recreational	Cambria											
		opportunities	County											
		counties have to	Conservation											
		offer, look to	and											
		build local	Recreation											
		economies off	Authority,											
		tourism	Southern											
			Alleghenies											
			Greenways											
			and Open											
			Space											
			Network Plan											

			n has been comp			Potential		Resources	cles <u>Red</u> - actio Available			Resource		
ction #	Description	Performance Target(s)	Partners	Geographic Location	Expected Timeline	Implementation Challenges or Recommendations	Technical	Source	Financial	Source	Technical	Suggested Source	Financial	Suggeste Source
1B	Advance local	An annual review	Multi-	Multi-	1-2 years	Reinforcing the								
	comprehensive	of the document	township	township		municipal role in								
	planning efforts	and setting 1				coordinating with								
		goal, Partner	Altoona Water			the water								
	Implement existing	with NRCS	Authority,			authorities to								
	Source Water	regarding source	McConnellsbu			perform education								
	Protection Plan	water protection and the 2018	rg Borough, Huntingdon			and outreach.								
		Farm Bill	Borough											
			201008.1											
		Work with	Fulton County											
		identified	Heritage Plan											
		partners to												
		support												
		implementation												
		of source water												
		protection plans mirrored with												
		CAP goals.												

				leted or is moving		Potential			s <u>Available</u>		taken or has encou		es <u>Needed</u>	
Action #	Description	Performance Target(s)	Partners	Geographic Location	Expected Timeline	Implementation Challenges or Recommendations	Technical	Source	Financial	Source	Technical	Suggested Source	Financial	Suggestee Source
1.1C	Evaluate areas to establish riparian buffers to stabilize stream banks and limit encroachment	Utilize Chesapeake Conservancy data set to identify buffer gap project opportunities Utilize Public Fishing Easement agreements as a way to conserve buffers	Municipalities, Conservation District, CBF, Pheasants Forever, National Trout Unlimited, Prince Gallitzin State Park, WPC, PA Foundation of Watersheds, Watershed Organizations,	Bay Portion	ongoing	Adopting ordinances, may require a pilot project in a willing municipality to demonstrate success. Lack of technical assistance to support implementation goals for forest buffers.		Can apply for Landscape Scale Restoration (LSR) Grant Program – US Forest Service	Utilize PFBC Incentive Program to pay landowners for fishing access	PFBC	 4 – FTE Clean Water Coordinator for Planning Commission 4 – FTE Clean Water Coordinator for Conservation District 	Planning Commission Conservation District	\$520,000 per year \$520,000 per year	DEP DEP
		Conserve Riparian buffers where feasible through zoning ordinances	Fulton County ACT 167 Plan, Fulton County Heritage Plan, DCNR			Buffer funding programs must include 5-10-year minimum maintenance plan, incentive money for landowners, along with volunteers to establish the buffer.					Buffer Funding Incentive Program	TBD	\$2,000,000 - \$4K per acre incentive payment and maintenance	TBD

		<u>Green</u> - actio	on has been comp	leted or is movin	g torward as		tion has encounte		acles <u>Red</u> - actio	n nas not been	taken or has enco			
						Potential		Resource	es <u>Available</u>			Resourc	es <u>Needed</u>	
Action		Performance		Geographic	Expected	Implementation Challenges or						Suggested		Suggestee
#	Description	Target(s)	Partners	Location	Timeline	Recommendations	Technical	Source	Financial	Source	Technical	Source	Financial	Source
1.2	Implement County	Improve flood	County	Blair	2023-	Funding, land for	reennear	Jource		Jouree	1 – FTE Clean	Planning	\$130,000 per	DEP
1.2	Hazard Mitigation	prone areas with	Planning	Countywide	2025	BMPs, funding for					Water	Commission	year	
	Plan	BMPs that also	Commission,	countymac	2025	engineering					Coordinator	commission	year	
		enhance water	municipalities,	Cambria –		feasibility studies					for Planning			
		quality (B) (F) (H)	MPO's Unified	plan under							Commission			
			Planning Work			Enforcement and								
		Retrofit existing	Program,	for 2021		compliance of								
		flood prone areas	Southern			stormwater								
		with new	Alleghenies	Fulton		ordinances								
		culverts, ditches,	Comprehensiv	Countywide										
		etc. (B) (F) (H)	e Plan, County											
			Redevelopme	Huntingdon										
		Report and	nt Authorities	Countywide										
		verify projects												
		that are												
		implemented for												
		Floodplain												
		management,												
		but can address												
		nutrients and												
		sediment (B) (F)												
		(H)												
		Identify all public												
		lands with flood												
		hazards, Create a												
		land bank (B)												
		Look to develop												
		and adopt												
		ordinance to												
		protect												
		floodplain												
		management (F)												

			on has been comp		B IOI Wala as	Potential			s Available		taken or has enco		es Needed	
tion		Performance		Geographic	Expected	Implementation Challenges or						Suggested		Suggeste
#	Description	Target(s)	Partners	Location	Timeline	Recommendations	Technical	Source	Financial	Source	Technical	Source	Financial	Source
1.3	Update/draft Act	Look to modify	Municipal	Blair	2022 –	Should local	Institutional	Municipal			Act 167 Plan	Consultant	\$350,000 per	DEP
	167 Plans	existing	engineers,	Countywide	discuss	involvement exist,	knowledge	engineers –			Development		county \rightarrow \$1.1	
		stormwater	Municipalities,		interest to	funding for Plan		assume 6 for					Million total	
		ordinances and	Southern	Cambria	pursue	update		well-rounded						
		ACT 167 Plans	Allegheny	Chesapeake	and			local			4 – FTE Clean	Planning	\$520,000 per	DEP
		where feasible or	Comprehensiv	Bay Portion	funding	Additional		background			Water	Commission	year	
		create new	e Plan, Juniata		opportuni	stormwater					Coordinator			
		model	River	Fulton	ties	engineering					for Planning			
		stormwater	Watershed Act	Countywide		resources at					Commission			
		ordinance or ACT	167, Bobs			county level (C)								
		167 plans that	Creek and	Huntingdon										
		would	Dunning	Countywide										
		require/incentiviz												
		e additional	Beaverdam											
		protections for	Branch 167											
		streams												
		Francisco												
		Encourage municipal												
		officials to enact												
		stormwater												
		management												
		ordinances												
		consistent with												
		ACT 167 and ACT												
		102 (F) (H) (C)												
		Implement												
		Fulton County												
		Act 167 Plan												

		Green - action	n has been comp	leted or is moving	g forward as l	Potential	lion has encounte			ion has not been	taken or has enco			
								Resources	s <u>Available</u>			Resource	es <u>Needed</u>	1
						Implementation								
Action		Performance		Geographic	Expected	Challenges or						Suggested		Suggestee
#	Description	Target(s)	Partners	Location	Timeline	Recommendations	Technical	Source	Financial	Source	Technical	Source	Financial	Source
1.4	Utilize Existing	Leverage TMDLs	Beaverdam -	Cambria	Ongoing	Financial and					3 – FTE Clean	Planning	\$130,000 per	DEP
	TMDLs to leverage	to help educate	Conservation	County:		Technical					Water	Commission	year	
	the need for water	local citizens on	District and	Chest Creek		assistance to					Coordinator			
	quality	the need for	City of	and Clearfield		develop 319 or					for Planning			
	improvements:	water quality	Altoona,	Creek		ARP plans for					Commission			
		improvements				TMDL watersheds								
	Chest Creek TMDL		Little Trough –	Beaverdam							3 – FTE Clean	Conservation	\$130,000 per	DEP
	and Clearfield	Explore the	Conservation	branch		Willingness of local					Water	District	year	
	Creek TMDL	potential	District, NRCS			volunteers to					Coordinator			
		feasibility of		Little Trough		support in					for			
	Beaverdam Branch	, developing 319		Creek – AG,		implementation of					Conservation			
	 looking to update 	WIPS or		tough to work		319 plans.					District			
	reasoning for	Alternative		with										
	TMDL	Restoration Plans		landowners		Lack of existing								
	inibe	for TMDL		idind of the lo		watershed								
		watersheds				organizations								
1.5	Juniata River	WPC applied for	Western	Juniata River	2021 –	Our goal is			Huntingdon	Growing	1 – FTE Clean	Planning	\$130,000 per	DEP
	Watershed	DCNR C2P2 grant	Pennsylvania	Watershed	Conserva	basically to update			County AG	Greener	Water	Commission	year	
	Management Plan	to update the	Conservancy,	(Blair, Fulton,	ncy	the existing plan			BMPs		Coordinator		,	
		Juniata River	Chesapeake	Huntingdon,	Exploring	with work that has			\$442,305		for Planning			
	Look to identify a	Watershed	Conservancy	Juniata,	options	been done since			<i>\(\)</i>		Commission			
	rapid delisting	Management		Mifflin, Perry)	optione	the original plan,								
	watershed as part	Plan. CAP can			2022 -	do some more in-					1 – FTE Clean	Conservation	\$130,000 per	DEP
	of the plan.	help leverage			outreach	depth GIS analysis,					Water	District	year	
		funding for the			outreach	and get public and					Coordinator	District	year	
		Juniata River			2023	municipal input					for			
		Watershed			implemen	into what they see					Conservation			
		Management			tation	are the issues in					District		WPC applied	DCNR
		Plan.			tation	the watershed. I					District		for \$37,785	Denn
						think the GIS							with \$37,286	
		Work with the				analysis will be a							match	
		Chesapeake				big part of the							materi	
		Conservancy to				process. We're								
		rapidly delist a				planning on using							Rapid Delisting	
		watershed within				the new 1-meter							Approach	
		the Juniata River												
		Watershed Plan.				resolution data set,							Budget	
		watersned Plan.				incorporating							\$2,000,000	
						an man of the should a								
						some of the buffer								
						some of the buffer gap analysis work from Chesapeake								

									1		1		
1.6	Implement County	Total	Agricultural	Blair County	2022-	Funding to support	Priority	Ag Land		4 – FTE Clean	Conservation	\$520,000 per	DEP
	Farmland	preservation Blair	Land	Ag Land	2023 –	additional BMP	recommendati	Preservation		Water	District	year	
	Preservation	County 56 farms	Preservation,		explore	implementation	ons, easement	Board		Coordinator			
	Program with	and 8,400 acres –	NRCS,	Cambria	incentive		revision			for			
	farmland	Current	Conservation	County Ag	opportuni	Technical	recommendati			Conservation			
	preservation	staff/funding can	District,	Land	ties	assistance to	ons,			District			
	program incentives	do 1-2 farms per	County Farm			coordinate	supplemental						
	enhancement	year, additional	Bureau, PSU	Fulton County	Ongoing	preservation plans	BMP funding						
		funding can	Extension,	Ag Land	0	with funding and	research					\$1.2 Million	
	Preservation of	complete up to 4.	Huntingdon	Ng Lana		technical	researen					per year to	
	agriculture lands,	12-15 are on a	County	Huntingdon		assistance						preserve 4	
	boosting local	backlog list	Heritage Plan,	-		assistance						(150 acre)	PDA
	-	DACKIOG IISL	-	County Ag		Duese word former							PDA
	agriculture	T . 1 . 1	Fulton County	Land		Preserved farms						farms per year	
	economy, Purchase		Heritage Plan,			are required to						(Blair)	
	of Agricultural	preservation	SCC			have an NRCS							
	Easements (PACE)	Cambria County	Ombudsman,			Conservation Plan,						Fulton County	
		19 farms and	Southern			work with farmers						- \$1,000,000	
		3,296 acres	Alleghenies			to ensure						for 250 acres	
		currently	RC&D Council			Conservation Plan						per year	
		Add 1-2 farmers				is reported in							
		each year –				PracticeKeeper.						Huntingdon –	
		about 150 acres				Recommend to						1 additional	
		per farm, receive				make this a						staff person to	
		8-10 applications				program						run AG	
		per year on				requirement						Preservation,	
		average				statewide.						\$500,000 per	
												year in	
		Total				Sharing NRCS data						, funding to	
		preservation				is challenging,						fund 2 farms	
		Fulton County 2				must comply with						per year.	
		farms and 240				1619 form.							
		acres.				1015 101111							
		add 1-2 farms				Lack of funding to							
		each year (20				preserve farms							
		farms in waiting)				each year. Many							
						farmers stop							
		Total				applying because							
		preservation				of limited funding							
		Huntingdon				and competitive							
		County 11 farms				process. Additional							
		and 1,392 acres –				staff time would							
		Currently 1 farm				be needed to							
		every 2-3 years, 2				significantly							
		Farms total,				increase the							
		Could do 2 farms				number of farms							
		per year with				per year and							
		additional				continue to inspect							
		funding				the farms annually.							

				eleted or is moving		Potential		Resources			taken or has encou	Resource		
Action	Description	Performance	Partners	Geographic Location	Expected Timeline	Implementation Challenges or Recommendations	Technical	Source	Financial	Source	Technical	Suggested Source	Financial	Suggested Source
# 1.7	Establish	Target(s) Approximately 75	Agricultural	Blair County	2022-	Limited	38 Inspections	Blair County	Financiai	Source	21 – additional	District/NRCS/	\$2,730,000	DEP/NRCS/
1./	funding/staff	farms have their	Land	Ag Land	2022-	compliance	performed per	Chesapeake			Ag Planners to	Private Sector	per year	SCC/PDA
	support to assist	plans in Blair	Preservation,		2025	activities by DEP.	year (B)	Bay Tech			provide	Farm Visits		JCC/TDA
	the Agricultural	County, goal is to	NRCS,	Cambria		detivities by DEF.	year (b)	buyicen			technical			
	community	complete 200 by	Conservation	County Ag		Lack of Technical	75 Inspections	1.5 FTE Fulton			assistance and			
	,	2025. (B)	District,	Land		assistance to	performed per	County			ag planning			
	496 farms in Blair		County Farm			support the	year, NRCS 20	Chesapeake			(Blair 6,			
	County (2017	Approximately 5	Bureau, PSU	Fulton County		farming	plans per year	Bay Tech (cut			Cambria 3,			
	Census)	farms have their	Extension,	Ag Land		community.	(F)	in half for			Huntingdon 6,			
		plans reported in	Private Ag					phase 2)			Fulton 6,)			
	557 farms in	Cambria County,	Consultants	Huntingdon		Private sector Ag								/
	Cambria County	goal is to		County Ag		plans are not	121				11 – FTE	Private Sector/	\$1,540,000	DEP/NRCS/
	(2017 Census)	complete/report		Land		required to be shared with		Huntingdon			Design, Permit	District	per year	SCC/PDA
	545 farms in Fulton	100 by 2025. (C)				District staff.	performed per year (H) -	County Chesapeake			construction Services (Blair			
	County (2017	Approximately				District starr.	Could do 50	Bay Tech			3, Cambria 2,			
	Census)	100 farms have				All counties will	inspections	Day reen			Huntingdon 3,			
	00110007	their plans in				work with ACT 38,	per year with				Fulton 3,)			
	714 farms in	Fulton County,				Preserved farms	additional							
	Huntingdon County	goal is to				and organic farms	funding				4 – FTE Clean	Conservation	\$520,000 per	DEP/NRCS/
	(2017 Census)	complete 200 by				to report AG E&S					Water	District	year	SCC/PDA
		2025. Preparing				and NRCS					Coordinator			
		to enter phase 2				Conservation	Field	District, USDA			for			
		of inspections. (F)				Plans. These	verification,	NRCS, Private			Conservation			
						operations are	troubleshootin				District		\$65,000 for	Huntingdon
		Approximately				required to have	g	PSU Extension					Chesapeake	County
		100 farms have				them, but no							Bay Technician	
		their plans in Huntingdon				requirement to report the plans. It	Site visits and plan review						(increasing current	
		County, goal is to				is recommended	plan review						capacity)	
		complete 200 by				state agencies							capacity	
		2025. (H)				make changes to								
						ACT 38 and								
						Persevered Farm								
						programs to								
						require								
						PracticeKeeper								
						reporting.								

				oleted or is moving		Potential		Resources				intered a serious Resourc	es Needed	
Action #	Description	Performance Target(s)	Partners	Geographic Location	Expected Timeline	Implementation Challenges or Recommendations	Technical	Source	Financial	Source	Technical	Suggested Source	Financial	Suggested Source
1.8A	Continue to address and support existing Acid Mine Drainage treatment systems and streams impaired by Acid Mine Drainage	Continue to provide funding to both active and passive treatment systems that are reducing the impacts of AMD impairments. If funding recedes water quality could degrade. (B,C,H)	PA DEP Bureau of Mining, Conservation District, watershed groups, TU, Altoona Water Authority, NRCS, Stream Restoration INC. Office of Surface Mining,	Shaw Run – Blair County Glen White Run – Blair County Chest Creek – Cambria County Miller Run – Huntingdon, in stream dosing Shoups Run – Huntingdon (delisted) still needs maintenance Hartman Run – Huntingdon		Need to support legislation regarding the RECLAIM Act to support funding of new treatment systems. Lack of technical assistance to support restoration efforts	Coordination of restoration Monitoring	PL 566 Program with NRCS & Altona Water Authority Conservation District					\$100,000 (25% monitoring assistance and 75% for maintenance) Maintenance Funds per year (Blair) \$25,000 for maintenance and monitoring (Huntingdon)	DEP Bureau Mining, Abandoned Mine Reclamation Program

1.8B	Identify new	Opportunities	PA DEP	Dudley	2022-	Need to support		Coordination	PL 566	\$5,000,000	DEP Bureau of
1.0D	funding to support	still exist to	Bureau of	discharge (H)	2022-	legislation		of restoration	PL 500 Program with	Total for	Mining,
	the	address AMD	Mining,	– DEP lead	2025	regarding the		of restoration	NRCS	restoration to	Abandoned
	implementation of	runoff into local	Conservation	(Great Trough		RECLAIM Act to			NICS	Kittaning Run	Mine
	Acid Mine	streams. New	District,	Creek &		support funding of				and Sugar Run	Reclamation
			watershed	Shoups Run)		new treatment				allu Sugal Kull	
	Drainage	passive and		Shoups Kull)				Monitoring		\$10,000,000	Program
	treatment systems	active treatment	groups, TU, Altoona Water	Pantee Run –		systems.		Monitoring		for Dudley	
		systems are needed to				Lack of technical					
			Authority,	AMD impaired (needs						Discharge	
		support water quality	NRCS	watershed		assistance to				\$300,000 for	
						support restoration efforts				Hartman Run	
		improvements. Work with DEP		plan)(c)		restoration enorts					
		and other		Sugar Bup (P)		Landowner in					
		identified		Sugar Run (B) – Needs AMD		Hartman Run					
		partners to find				would need to paid					
		funding to		system		for land in order to					
		support the		Kittaning Run		install systems					
		implementation		– Water		install systems					
		of new treatment		Authority							
		systems		Property (B)							
		Systems		Fioperty (b)							
				Clearfield							
				Creek –							
				Cambria							
				County							
				county							
				West Branch							
				of							
				Susquehanna							
				Could use							
				additional							
				work (C)							
				Bakerton is							
				currently							
				designed for							
				use but is not							
				being used by							
				active mine							
				site (B)							
				Sankerton (B)							
				needs							
				additional							
				help.							
				Hartman Run							
				(H) —							
				Huntingdon			 				

		<u>Green</u> - actio	n has been comp	leted or is moving	forward as I		tion has encount	ered minor obsta		n has not been	tak
Action #	Description	Performance Target(s)	Partners	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Technical	Resource	S <u>Available</u> Financial	Source	
1.9A	Partner with Penn	Juniata College	Juniata	319 Priority	2022-	Continued	Outreach	Penn State			-
1.9A	Partner with Penn State Altoona, Mount Aloysius (B), Juniata College (H) and Saint Francis University (C) to support implementation of the CAP.	Juniata College Tree Advisory Committee includes multidisciplinary team of students and faculty, could help to administer other BMPS Saint Francis University Penn State Altoona Develop a program with university students to support PracticeKeeper reporting for	Juniata College, Saint Francis University, Penn State Altoona, Mount Aloysius	319 Priority Watershed Riparian properties Preserved farms Priority Corridor Watersheds -	2022- 2025	Continued undergraduate/gra duate engagement as students graduate through program, implementation funding Lack of technical assistance professionals to mentor students and develop workforce development. Lack of competitive paying job opportunities that ensure long term sustainable for recently graduated	Outreach boots on the ground	Penn State Altoona, Mount Aloysius (B), Juniata College (H) and Saint Francis University (C)			
		summer of 2022.				students					
1.9B	Quantify Land/BMPs Managed by Penn State Altoona, Juniata College and Saint Francis University	Work with Penn State Altoona, Juniata College and Saint Francis University to ensure that water quality improvements that they manage are captured in CAST/FieldDoc	Penn State Altoona (B), Juniata College (H) and Saint Francis University (C)	Penn State Altoona owned Lands in Blair County Juniata College owned Lands in Huntingdon County Saint Francis University owned Lands in Cambria County	2022	Getting maximum credits for experimental BMPs	Institutional knowledge	University staff, 1 County staff person, HRG (CAP coordinator)			

SOUTHERN ALLEGHENIES)

aken or has encountered a serious barrier Resources Needed Suggested Suggested Technical Source Financial Source \$180,000 18 – Student Penn State TBD Internships to Altoona (B), Support CAP Juniata College (H) Implementatio n (5 -Blair, 3 – and <mark>Saint</mark> Cambria, 5 – Francis Fulton, 5 – University (C), Huntingdon) or students who live locally and attend other universities Planning \$390,000 per 3 – FTE Clean DEP Water Commission year Coordinator for Planning Commission 3 – FTE Clean \$390,000 per DEP Conservation Water District year Coordinator for Conservation District

#DescriptionTarget(s)PartnersLocationTimelineRecommendationsTechnicalSourceFinancialSourceTechnicalSourceFinancialFinancial <th< th=""><th></th><th></th><th></th><th>n has been comp</th><th></th><th></th><th>Potential</th><th></th><th></th><th>Available</th><th></th><th>aken or has encoເ</th><th></th><th>es <u>Needed</u></th><th></th></th<>				n has been comp			Potential			Available		aken or has encoເ		es <u>Needed</u>	
10ACreate a regional water quality communication plan, leveraging exscute plan and distribute messaging including: Southern Allegheny Dependence exsting documents' and covering topics through staff and Plan, Hazard Mitigation Plans, Cold Water Conservation Plans, 319 Watershed Plans, Greenways andDevelop regional messaging through staff and plan plan, leveraging existing documental appring through staff and Plans, ConservationMulti-partner, Allegheny Leveraging through staff and plan partnersBlair Countywide2022 - plan plan chesapeake Bay PortionSimplifying the resources that are available, focusing other landownersWebsite development and covering topics through staff and partnersSouthern Allegheny commission as lead entity building upon fulton CountywideBlair Countywide2022 - plan ind consultantSimplifying the resources that are available, focusing other landownersWebsite development and covering topics through staff and partnersBlair Countywide2022 - plan ind countywideSimplifying the resources that are available, focusing other landownersWebsite development and covering to an are specification project- related gran awardWebsite development and covering to an are specification plan, lazardConsultantSecond dome project- related gran award10ACreate a regional compression plan plan, lazard Watershed Plans, Greenways andMulti-partner, specificationBlair Countywide2022 - plan taitonSimplifying the resources	Action #	Description		Partners		-	Challenges or	Technical	Source	Financial	Source	Technical		Financial	Suggested Source
	I.10A	Create a regional water quality communication plan, leveraging existing documents and covering topics including: Southern Allegheny Comprehensive Plan, Hazard Mitigation Plans, Cold Water Conservation Plans, 319 Watershed Plans, Greenways and	Develop regional messages and audience; execute plan and distribute messaging through staff and	Multi-partner, Southern Allegheny Planning Commission as lead entity building upon environmental	Blair Countywide Cambria Chesapeake Bay Portion Fulton Countywide Huntingdon	2022 – plan developm ent 2023 – plan implemen	Simplifying the resources that are available, focusing on farmers and					Website development and continued maintenance 2 – FTE Marketing and Outreach	Consultant Planning Commission/ Conservation	\$60,000 per year \$260,000 per	Administration budget tag- along to project- related grant award

		<u>Green</u> - actio	n has been comp	leted or is movin	g torward as	planned <u>Yellow</u> - ac Potential	tion has encounte		cles <u>Red</u> - actic s Available	on has not been	taken or has encou		barrier es <u>Needed</u>	
						Implementation		Resources	Available			Resource	es <u>needed</u>	
Action		Performance		Geographic	Expected	Challenges or						Suggested		Suggested
#	Description	Target(s)	Partners	Location	Timeline	Recommendations	Technical	Source	Financial	Source	Technical	Source	Financial	Source
 1.10B	Agricultural	Develop a plan to	CD, County	Blair	2022-	One on one farm	reenneur	Jourge		Jourge	21 – additional		\$2,730,000	DEP/NRCS/
1.100	Communication	complete one on	Farm Bureau,	Countywide	2025	outreach is the					Ag Planners to	Private Sector	per year	SCC/PDA
	Strategy	one farm visits	Integrators, Ag	country mac	2023	best way to					provide	Farm Visits	peryeu	300,10,1
	0000000	outside the	Land	Cambria		communicate with					technical			
		regulatory	Preservation,	Chesapeake		farmers in addition					assistance and			
		framework.	PSU Extension,	Bay Portion		to reporting					ag planning			
			NRCS,	,		practices.					-01			
		Develop a	Ombudsman	Fulton		P					4 – FTE	Conservation	\$520,000 per	NFWF
		communication		Countywide		Funding to support					Marketing and	District	year	
		plan to engage				the technical					Outreach		,	
		integrators.		Huntingdon		assistance required					Coordinator			
		0		Countywide		to complete one								
		Partner with		· ·		on one farm					4 – FTE Clean	Conservation	\$520,000 per	DEP
		pesticide				outreach					Water	District	year	
		meetings and									Coordinator			
		other AG				Outreach to					for			
		meetings to				integrators is a					Conservation			
		provide				challenge due to					District			
		information.				the number of								
						integrators and								
		Utilize Farm				multiple country								
		Bureau				boundaries they								
		Newsletter for				serve. It is								
		announcements				recommended								
						DEP/PDA/SCC								
						communicate with								
						integrators on a								
						frequent basis to								
						reduce mixed								
						messages.								
						Districts can be								
						viewed as								
						regulatory								
						agencies can be								
						tough for some								
						farmers to be								
						willing to work								
						with the district								

		<u>Green</u> - actio	n has been comp	leted or is moving	g forward as	planned <u>Yellow</u> - act Potential	tion has encounte			on has not been t	aken or has enco			
Action		Performance		Geographic	Expected	Implementation Challenges or		Resources	Available			Suggested	es <u>Needed</u>	Suggested
#	Description	Target(s)	Partners	Location	Timeline	Recommendations	Technical	Source	Financial	Source	Technical	Source	Financial	Source
1.11	Countywide WQ Credit Offset Pilot	Demonstrate success of a pilot project area where MS4- regulated areas and non- regulated areas can benefit from achieving sediment and nutrient goals	Anitis Township, Logan Township, Altoona City, Allegheny Township, Duncansville Borough, Blair Township, Hollidaysburg Borough, Frankstown Township, ISC, Planning	Blair County MS4 Municipalities	2022- 2023	Municipal capacity to implement plans (technical, financial) DEP acceptance of approach, permit compliance coordination among sectors, farmers in compliance with state and federal regulations				Existing NFWS INSR Grant (B)	 1 – FTE Clean Water Coordinator for Planning Commission 1 – FTE Clean Water Coordinator for Conservation District 	Planning Commission Conservation District	\$130,000 per year \$130,000 per year	DEP DEP
1.12	Keep High Quality Water High Quality – Protect Headwater Watersheds	Work to preserve and protect high quality and exceptional value streams with preservation and conservation initiatives. The goal is to prevent further degradation to healthy stream segments.	Commission Conservation District, Planning Commission, Watershed organizations, trout unlimited.	Blair, Cambria, Fulton and Huntingdon County HQ and EQ watersheds.	2022	Funding is not typically available to preserve high quality watersheds. Most funding is dedicated to impaired watersheds. Ensure funding is available to support implementation in HQ and EQ watersheds. Ensure funding for Tier 3 &4 counties				ARC Funding	1 – FTE Clean Water Coordinator for Planning Commission 1 – FTE Clean Water Coordinator for Conservation District	Planning Commission Conservation District	\$130,000 per year \$130,000 per year	DEP

		<u>Green</u> - actio		leted or is movin	g ioi waru as	Potential			s <u>Available</u>	ion has not been	taken or has encou		s <u>Needed</u>	
ction # Descr	ription	Performance Target(s)	Partners	Geographic Location	Expected Timeline	Implementation Challenges or Recommendations	Technical	Source	Financial	Source	Technical	Suggested Source	Financial	Suggested Source
riority Initia	ative 2: F	Reporting and	Tracking –	Blair, Cambr	ia, Fultor	n and Huntingd	on		1	-			1	
2.1 Existing B cataloguir (quantity location) f BMPs, exp on genera recomme provided b BMPs = fo buffers, u forest buf grass buff urban gra buffers, w and wetla	BMP ing and for select cpanding al endations in QAPP orest urban iffers, fers, ass wet ponds ands, cover crop ge	Reporting andExpand use of existing buffer layer with urban hydrology layerR&D into distinguishing ag, pasture, and turf covers from grassed buffersManual digitizing where leaf-off <1 ft resolution imagery is availableBack check with staff field views where requiredAdd data to Practice Keeper or another batch upload option	Iracking –Lead -ChesapeakeConservancyStakeholderpeer review –PSU Altoona,JuniataCollege, SaintFrancisUniversity,USGS, CountyFarm Bureau,PDA, EPA,NRCSCountyConservationDistricts	Blair, Cambr Blair Countywide Cambria Chesapeake Bay Portion Fulton Countywide Huntingdon Countywide	2022 – cataloguin g 2023 – Practice Keeper batch upload processin g and field views	and HuntingdEPA acceptance of the approach, further refine guidance in QAPP so that counties can accomplish this or so that the state can take the burden off of counties, utilize the approach to catalogue existing BMPs and do on the ground verification where required for reporting purposes, this is an accelerated BMP catch up approach while we continue to farmers on planning and BMP installs, reduce the amount of interruption of government entities to compliant farm operationsFarmers willingness to	 Precision Conservation Tools General methodology outline BMP field backcheck 	Chesapeake Conservancy QAPP Varies by BMP, but likely 1 CD staff person, 1 CBF staff person, 1 PSU Extension staff person	N/A	N/A	 Further GIS and data processing/me thod refinement 21 – additional Ag Planners to provide technical assistance and ag planning (Blair 6, Cambria 3, Huntingdon 6, Fulton 6,) 17 – Student Internships to Support CAP Implementatio n (Blair 5, Cambria 2, Huntingdon 5, Fulton 5) 	Chesapeake Conservancy	\$46,000 (2022 only) per county →\$184,000 \$2,730,000 per year \$170,000	EPA/NRCS DEP/NRCS/ EPA/PDA/SCO

						Potential		Resource	s <u>Available</u>			Resource	s <u>Needed</u>	
tion #	Description	Performance Target(s)	Partners	Geographic Location	Expected Timeline	Implementation Challenges or Recommendations	Technical	Source	Financial	Source	Technical	Suggested Source	Financial	Suggeste Source
т 2.2	Identify future	BMP opportunity	Lead -	Blair	2022 –	Different data set	Precision	Chesapeake	N/A	N/A	Further GIS	Chesapeake	\$46,000 (2022	EPA/NRCS
	ag/urban project	analysis – ag	Chesapeake	Countywide	cataloguin	scales/precision	Conservation	Conservancy			and data	Conservancy	only) per	LIAINICS
	opportunities using	conservation,	Conservancy	countywhite	g	seales, precision	Tools	conscivancy			processing/me	conscivancy	county	
	automated means	land retirement,	conservancy	Cambria	ъ	Willingness of	10015				thod		→\$184,000	
		alternative crop,	Stakeholder	Chesapeake	2023 –	landowners to					refinement		7 9 20 1,000	
		forest	peer review –	Bay Portion	batch	implement BMPs								
		conservation,	, PSU Altoona,	· ·	upload									
		stream	Juniata	Fulton	processin		Batch upload	DEP/SRBC			17 – Student	Local	\$170,000	TBD
		restoration	College, Saint	Countywide	g and field		processing				Internships to	University		
			Francis		views						Support CAP	Student or		
		Back check with	University,	Huntingdon			BMP field				Implementatio	local student		
		staff field views	USGS, County	Countywide	2024 –		backcheck				n (Blair 5 <i>,</i>	attending		
			Farm Bureau,		2025 –						Cambria 2,	nearby		
		Batch upload to	PDA, EPA,		implemen			K			Huntingdon 5,	university etc.		
		FieldDoc to	NRCS, MS4		tation						Fulton 5)			
		calculate credit	Municipalities		focus									
		opportunity	in Blair County											
			County											
			Conservation											
			District											

		<u>Green</u> - actio	n has been comp	leted or is moving	g forward as		tion has encount			on has not been	taken or has encou			
						Potential		Resource	s <u>Available</u>			Resource	s <u>Needed</u>	
						Implementation								
Action		Performance		Geographic	Expected	Challenges or						Suggested		Suggested
#	Description	Target(s)	Partners	Location	Timeline	Recommendations	Technical	Source	Financial	Source	Technical	Source	Financial	Source
2.3	Improve	Add urban	Municipal	Blair	2022	Currently	Reporting	FieldDoc			7 – Municipal	Municipalities,	\$980,000 per	TBD
	continuous data	stormwater	engineers,	Countywide		municipalities are	platform				Engineers	Planning	year	
	collection on urban	BMPs to FieldDoc	Chesapeake			not collecting BMP					(Blair-2,	Commission,		
	structural and non-	or reported to	Conservancy,	Cambria		data because it is					Cambria-1,	COG		
	structural practices	DEP so that as	Municipalities,	Chesapeake		not required in					Fulton-2,			
		land use data	Planning	Bay Portion		Non-MS4					Huntingdon-2)			
		sets are updated,	Commission,			communities. Must								
		there are		Fulton		incentivize								
		accompanying		Countywide		communities to					11 – FTE	Private Sector/	\$1,430,000	DEP/NRCS/
		BMPs				report, no existing					Design, Permit	District/		SCC/PDA
				Huntingdon		system in place					construction	Planning		
		Work with		Countywide							Services (Blair-	Commission		
		municipalities				Lack of technical					3, Cambria-2,			
		that are				assistance to					Fulton-3,			
		implementing				report and verify					Huntingdon-3)			
		stormwater				practices to DEP								
		management												
		ordinances for												
		less than an acre												
		stormwater												
		management to												
2.4	Implement a	report practices Support fertilizer	PSU Extension	Blair	2022	Education of	TBD	TBD	TBD	TBD	TBD)	TBD	TBD	TBD
2.4	documentation	legislation –		Countywide	2022	responsible					1001			
	program for	where legislation		countywhite		parties, receiving								
	commercial and	requires		Cambria		timely information,								
	homeowner	reporting, be the		Chesapeake		training on								
	nutrient	data		Bay Portion		reporting system,								
	applications in	clearinghouse		Say Fortion		will need direction								
	developed lands			Fulton		from State on								
				Countywide		what's expected								
						and any reporting								
				Huntingdon		system that's								
				Countywide		developed								

		<u>Green</u> - actio	n has been comp	leted or is movin	g forward as		ion has encounte			n has not been	taken or has enco			
						Potential		Resources	s <u>Available</u>			Resourc	es <u>Needed</u>	_
						Implementation								
tion		Performance		Geographic	Expected	Challenges or						Suggested		Suggested
#	Description	Target(s)	Partners	Location	Timeline	Recommendations	Technical	Source	Financial	Source	Technical	Source	Financial	Source
2.5	Improve	Increase	DEP,	Blair	2022-	Private sector ag					17 – Summer	Juniata	\$170,000 –	DEP/PDA/SC
	Agricultural BMP	reporting of	Conservation	Countywide	2025	planners do not					interns for	College, Saint	paid	
	reporting utilizing	agriculture plans	District, NRCS,			have access to					reporting and	Francis	internship	
	PracticeKeeper,	into	PDA, NRCS,	Cambria		PracticeKeeper. Ag					verification	University,		
	Capital RC&D	PracticeKeeper,	County Farm	Chesapeake		planners do not					(Blair 5,	PSU Altoona		
	Transect Survey,	provide	Bureau,	Bay Portion		have time to					Cambria 2,			
	PSU Survey,	incentives/requir	Capital RC&D,			report into PK.					Huntingdon 5,		\$100,000	DEP/PDA/SC
	Manure Transport	ements to private	Chesapeake	Fulton							Fulton 5)		Rate Per Plan	
	Reporting and	sector Ag	Conservancy,	Countywide		Current Capital							pot of funding	
	Remote Sensing	planners to	PSU Survey,			RC&D routes are							to support	
		report.	Manure	Huntingdon		not all inclusive							private sector	
			Brokers,	Countywide		and could be							Ag Plan entry	
		Work with				improved.								
		Capital RC&D to												
		improve current				Current response								
		transect survey				rates are low and								
		routes to be				miss a large								
		more inclusive				demographic of								
						County farmers.								
		Work with PSU to												
		produce better				Manure brokers								
		response rates to				are not required to								
		the PSU survey				report data								
		for each county				annually. Data is								
						not inclusive.								
		Work with				Consider a								
		PDA/DEP/SCC to				regulatory change.								
		improve manure												
		transport				Farmers								
		reporting				willingness to								
						share data with PK								
						due to right to								
						know								

		<u></u>		pleted or is movin		Potential			tacles <u>Red</u> - acti es <u>Available</u>				es <u>Needed</u>	
Action #	Description	Performance Target(s)	Partners	Geographic Location	Expected Timeline	Implementation Challenges or Recommendations	Technical	Source	Financial	Source	Technical	Suggested Source	Financial	Suggested Source
2.6	Standardized Reporting for Dairy Precision Feeding	Counties would like to utilize the dairy precision feeding BMP. However, current reporting guidelines do not allow for clear reporting standards on feed reduction amounts, how to report, and who is qualified to report. Changes to reporting would result in the following Dairy Precision Feeding BMP Implementation: 5,000 dairy cow animal units (B) 1,000 dairy cow animal units (F) 6,500 dairy cow animal units (H)	Chesapeake Bay Program, Penn State Extension, Dairy co-ops	Blair Countywide Cambria Countywide Fulton Countywide Huntingdon Countywide	2022	It is recommended that MUN be an acceptable standard for reporting dairy precision feeding. Guidelines need to be posted on acceptable MUN rates and work with dairy integrators to receive MUN data to report to DEP.	N/A	N/A	N/A	N/A	Reporting protocol	Chesapeake Bay Program, Penn State Extension, Dairy co-ops	N/A	N/A

				oleted or is movin		Potential			s <u>Available</u>		taken or has enco		es <u>Needed</u>	
tion #	Description	Performance Target(s)	Partners	Geographic Location	Expected Timeline	Implementation Challenges or Recommendations	Technical	Source	Financial	Source	Technical	Suggested Source	Financial	Suggestee Source
	Water, Sewer and Wastewater Treatment Plant	Work with Water, Sewer and Waste Treatment facilities to accurately document plant upgrades. Upcoming plant upgrades: Brown and Union Township, Saltillo (H) Altoona Digestor, Tipton/Plane and Nine/Mill Run, Petersburg Borough McConnellsburg composts biosolids (F)	DEP Brown and Union Township, Saltillo (H), Altoona Digestor (B), Tipton/Plane and Nine/Mill Run, Petersburg Borough McConnellsbu rg Borough	CSO and Waste Treatment Facilities	Ongoing	Need DEP to work with waste facilities to accurately document plant upgrades. Need reductions to be accurately captured in CAST. Work with DEP to determine how composting helps to reduce nitrogen and phosphorus. Accurately document					 1 – FTE Clean Water Coordinator for Planning Commission 1 – FTE Clean Water Coordinator for Conservation District 	Planning Commission Conservation District	\$130,000 per year \$130,000 per year	DEP

		Green - actio	n has been comp			ool: (B) = Blair, (C) planned Yellow - ac			acles <u>Red</u> - action	on has not been t	taken or has enco	untered a serious	barrier	
					,	Potential			es <u>Available</u>				es <u>Needed</u>	
Action		Performance		Geographic	Expected	Implementation Challenges or						Suggested		Suggested
#	Description	Target(s)	Partners	Location	Timeline	Recommendations	Technical	Source	Financial	Source	Technical	Source	Financial	Source
Priori	ty Initiative 3B	: Achieve New	Pollutant R	eductions B	lair Coun	itv		1			1		1	
3.1B	Implement Plum Creek and Sugar Run Watershed Assessment, Restoration and Preservation Plan	Implementfederal, state andlocal programsthat support theestablishment ofriparian buffersin theheadwaters.Look to supporttheimplementationof streambankfencing, no-tillplanting andcover crops.Implementappropriate AMDrestorationpractices toaddress AMDissues	BCCD, JK Chapter of TU, PAFBC, AG land preservation program	Plum Creek and Sugar Run Watershed	Ongoing	Technical assistance to support implementation and landowner outreach. Lack of funding to support implementation of projects.			JK Chapter of TU has funding available for AG Practices and Stream Restoration – needs project leads	JK Chapter of TU	1 – FTE Clean Water Coordinator for Conservation District	Conservation District	\$130,000 per year	DEP
3.2B	Trout Unlimited Non-point source Technical Assistance Program	8 proposals were submitted for streambank and in-stream practices in Blair County Waterways Currently in the process of being implemented	JK Chapter TU, BCCD,	Gillans Run Nature Works Park	2021 – Gillans Run 2022 Implemen tation of additional projects	Permitting process is underway, hoping to have permits by spring of 2022. Work with South Central Office on Permitting Meeting Current funding minimum of \$25,000 for prevailing wage can drastically increase price	Trout Unlimited	Grant	Partial funding through District		Tu Technical Assistance	Grant is expiring need to identify new funding	\$50,000 in design	DEP and som match with District

		<u>Green</u> - actio		leted or is moving	s iorwaru as	Potential			s <u>Available</u>	on has not been t	aken of has encou	Resource		
Action #	Description	Performance Target(s)	Partners	Geographic Location	Expected Timeline	Implementation Challenges or Recommendations	Technical	Source	Financial	Source	Technical	Suggested Source	Financial	Suggested Source
. 3 .Ba	Implement Blair County National Fish and Wildlife Foundation – Innovative Nutrient	Expand partners to accelerate the installation of eight stream bank restoration	Blair County Conservation District, PA Intergovernm ental	Beaverdam, Frankstown Watershed is primary focus, Little Juniata	2021- 2023	ISC has no capacity to scale up. Identifying additional partners to support with	Engineers	Intergovernm ental Stormwater Committee	\$41,000	DCNR Multi- Functional Buffer Grant	2 – Municipal Engineers	Municipalities, Planning Commission, COG	\$280,000 per year	TBD
	and Sediment Reductions (INSR)	and riparian buffer projects in the MS4 regulated regions	Stormwater Committee (ISC), ISC Engineers, John Kennedy	Watershed is a secondary priority MS4		Expand geographic scale of implementation	Staff Time to support efforts Volunteer	Conservation District St. Francis	\$78,000	Growing Greener for Green Infrastructure	3 – FTE Design, Permit construction Services	Private Sector/ PCCD	\$420,000	DEP/NRCS/ SCC/PDA
		8,885ft stream restoration 4-acre riparian	Local Trout Unlimited, Tri- Run	Regulated Area		outside of defined urbanized area.	Buffer Plantings, and other work	University, Little Juniata River	\$200,500	ISC Engineering	2 – stream biologists	PCCD/other?	\$280,000 per year	DEP/DCNR/ EPA
		buffer planting	Watershed Association, Little Juniata Watershed association, PA DCNR, Maple Hollow			Outreach to Non- MS4 communities Limited budget for ISC, limited budget prevents outreach to Non-MS4		Association, Trout Unlimited – Pa Cold Water Heritage Program, Tri Run	\$146,000 \$4,000	DCED Grant CBF 10 Million Trees	6 – additional Ag Planners to provide technical assistance and ag planning	District/NRCS/ Private Sector Farm Visits	\$780,000 per year	DEP/NRCS/ SCC/PDA
			Townhouses Homeowners association, Master Gardeners			communities		Watershed Association, DCNR,			3 – FTE Design, Permit construction Services	Private Sector/ PCCD	\$420,000 per year	DEP/NRCS/ SCC/PDA

		<u>Green</u> - actio		leted or is moving	s ioi wai'u as j	Potential	cion nas encoun		s <u>Available</u>	on has not been t	aken of has encou	Resource		
Action #	Description	Performance Target(s)	Partners	Geographic Location	Expected Timeline	Implementation Challenges or Recommendations	Technical	Source	Financial	Source	Technical	Suggested Source	Financial	Suggestec
3.3Bb	Implement Blair	Develop cost	Blair County	Non-MS4	2021 -	Will work with		Blair County's	\$93,000	Blair County's	2 – Municipal	Municipalities,	\$280,000 per	TBD
	County National	share program to	Conservation	communities	2023	NRCS staff to		Dirt and	\$55,000	Dirt and	Engineers	Planning	vear	
	Fish and Wildlife	fund Green	District, Blair	of Beaverdam,	2025	identify farms		Gravel Low		Gravel Low	Lingineers	Commission,	ycui	
	Foundation –	Infrastructure	County	Watershed		needing		Volume Road		Volume Road		COG		
	Innovative Nutrient	and riparian	Municipalities,	Trater shed		road/culvert		Program		Program		000		
	and Sediment	buffer practices	NRCS, Tyrone			repair; however,					3 – FTE	Private Sector/	\$420,000	DEP/NRCS/
	Reductions (INSR)		Township and			NRCS staff is	Volunteer	TU Chapter,	\$80,000	Municipal	Design, Permit	PCCD	. ,	SCC/PDA
		Target	Tyrone			limited and	Time	Little Juniata		Public Works	construction			
	Strengthen the	stormwater	Borough, Blair			working beyond		River			Services			
	partnership with	practice	County Farm			their scope is		Association,	\$10,000	Riparian				
	Blair County	implementation	Bureau			difficult		Tri-Run		Buffer Funds	2 – stream	PCCD/other?	\$280,000 per	DEP/DCNR/
	Municipalities by	upstream of D&G						Watershed		Trout	biologists		year	EPA
	scaling up Dirt and	Roads						Association,		Unlimited				
	Gravel/Low							Alliance for			6 – additional	District/NRCS/	\$780,000 per	DEP/NRCS/
	Volume Road	Offer cost shared						the			Ag Planners to	Private Sector	year	SCC/PDA
	Program	program to						Chesapeake			provide	Farm Visits		
		reduce sediment						Bay, County			technical			
		pollution from						Farm Bureau			assistance and			
		unpaved roads									ag planning			
		and culvert outlets in the AG									3 – FTE	Private Sector/	\$420,000 per	DEP/NRCS/
		sector – 10									Design, Permit	Private Sectory		SCC/PDA
		projects total									construction	FCCD	year	JCC/FDA
		projects total									Services			
		Implement												
		Stormwater												
		Practices in												
		Tyrone Township												
		and Borough												

		<u>Green</u> - actio	n has been comp	leted or is moving	g forward as l		tion has encount			on has not been t	aken or has encou			
						Potential		Resources	<u>Available</u>			Resource	s <u>Needed</u>	1
						Implementation								
Action		Performance		Geographic	Expected	Challenges or						Suggested		Suggested
#	Description	Target(s)	Partners	Location	Timeline	Recommendations	Technical	Source	Financial	Source	Technical	Source	Financial	Source
B.3Bc	Implement Blair	Accelerate the	Blair County	Beaverdam,	2021 -	NRCS Staff is	Plan Writers	Nutrient		Nutrient	2 – Municipal	Municipalities,	\$280,000 per	TBD
	County National	adoption of	Conservation	Frankstown	2023	limited		Management		Management	Engineers	Planning	year	
	Fish and Wildlife	regenerative	District, Blair	Watershed is				Program and		Program and		Commission,		
	Foundation –	agriculture	County	primary focus,		The principal gap		DEP's		DEP's		COG		
	Innovative Nutrient	practices on	Municipalities,	Little Juniata		that limits our		Chesapeake		Chesapeake				
	and Sediment	farms in Blair	NRCS, PA Soil	Watershed is a		capacity to scale		Bay Program		Bay Program	3 – FTE	Private Sector/	\$420,000	DEP/NRCS/
	Reductions (INSR)	County and	Health	secondary		up is the lack of					Design, Permit	PCCD		SCC/PDA
		establish a	Coalition,	priority		funding and farmer					construction			
		Regional Soul	Project Grass,			understanding of					Services			
		Health Hub in	PAGLC, PA No-			the need to adopt								
		partnership with	Till Alliance,			regenerative ag					2 – stream	PCCD/other?	\$280,000 per	DEP/DCNR/
		Pa Soil Health				related practices					biologists		year	EPA
		Coalition											6700 000	
		Conduct 5									6 – additional	District/NRCS/	\$780,000 per	DEP/NRCS/
		Conduct 5									Ag Planners to	Private Sector	year	SCC/PDA
		farmers									provide	Farm Visits		
		workshops									technical			
		Utilize multi-									assistance and			
											ag planning			
		county grazing group to further									3 – FTE	Private Sector/	\$420,000 per	DEP/NRCS/
		promote the use									Design, Permit	PCCD	year	SCC/PDA
		of prescribed									construction	FCCD	уса	JCC/FDA
		grazing									Services			
3.4B	Exploring	Need to conduct	JK Chapter of	Spencer Run	2022	Lack of staffing	Technical	Conservation		DCED	6 – additional	District/NRCS/	\$780,000 per	DEP/NRCS/
	opportunities to	a watershed	TU, Army Core	Watershed	complete	with quick grant	assistance	District		Keystone	Ag Planners to	Private Sector	year	SCC/PDA
	develop a plan for	assessment for	of Engineers	Watershea	watershe	turnaround	ussistance	District		Communities	provide	Farm Visits	year	500,10/1
	Spencer Run	Spencer Run.			d					connuncies	technical			
	000000000000000000000000000000000000000	Funding already			assessme						assistance and			
		established			nt						ag planning			
											0 10			
		Already												
		conducted a												
		flood assessment												

			n has been comp			Potential		Resources		ion has not been tal			s <u>Needed</u>	
ion #	Description	Performance Target(s)	Partners	Geographic Location	Expected Timeline	Implementation Challenges or Recommendations	Technical	Source	Financial	Source	Technical	Suggested Source	Financial	Sugges Sourc
В	Altoona Water Authority Regional Digestor	Altoona Water Authority is currently in the process of building a new regional digestor to handle biosolids and manure from regional facilities within 50 miles. The facility will process nutrients and produce a low concentration Class A waste that will be land applied.	Altoona Water Authority, Regional waste producers who transport to digestor,	Altoona, PA Glen White Run Watershed – Biosolid Application	2022	There is potential the digestor will be processing manure generated outside of the Chesapeake Bay Watershed. These nutrients will be contributed to Blair County loads.		Altoona Water Authority	\$36 million	Altoona Water Authority				
		that will be land												

		<u>Green</u> - actio	n has been comp	leted or is moving	g forward as l		ion has encounte			n has not been t	aken or has encou			
						Potential Implementation		Resources	Available			Resource	es <u>Needed</u>	
ion		Performance		Geographic	Expected	Challenges or						Suggested		Suggeste
ŧ	Description	Target(s)	Partners	Location	Timeline	Recommendations	Technical	Source	Financial	Source	Technical	Source	Financial	Source
orit	y Initiative 3C	: Achieve New	Pollutant R	eductions C	ambria C	ounty								
	Implement the	Increase the	CCPC,	Cambria	Ongoing	Lack of funding					1 – Municipal	Municipalities,	\$140,000 per	TBD
	2020 Cambria	number of	Municipalities,	Countywide		and technical					Engineers	Planning	year	
	County	stream	CCCD, DEP			assistance to						Commission,		
	Conservation	restoration BMPS	BAMR, PDA,			support						COG		
	District Strategic	installed, submit	DEP, Cambria			restoration								
	Plan	grants once a	County			initiatives,					2 – FTE	Private Sector/	\$280,000	DEP/NRCS
		year to	Redevelopme			landowner issues					Design, Permit	CCCD		SCC/PDA
		implement AMD	nt Authority,								construction			
		and AG impaired	DCNR, NRCS,								Services			
		waters (2 miles of	Prince Gallitzin											
		AMD stream by	State Park,								1 – stream	CCCD/other?	\$140,000 per	DEP/DCN
		, 2025, Glendale	SCC, PACD,								biologists		year	EPA
		Lake streambank	EPCAMR,								U U		· ·	
		stabilization)	WPC,								3 – additional	District/NRCS/	\$390,000 per	DEP/NRC
			Americorps,								Ag Planners to	Private Sector	year	SCC/PDA
		Conduct 10	Benscreek								provide	Farm Visits	ycar	500,10/1
		comprehensive	Canoe Club,								technical			
		farm evaluations	PAFBC, PSU								assistance and			
		for BMPs	Extension,											
		(assume 60 acres									ag planning			
		per farm – 600	Clearfield Creek								2 – FTE	Private Sector/	6280.000 per	
		· · ·											· · · ·	DEP/NRC
		acres of new	Watershed								Design, Permit	PCCD	year	SCC/PDA
		potential	Association,								construction			
		planning),	Chest Creek								Services			
		Funding by 2025	Watershed											
			Association								1 – FTE Clean	Planning	\$130,000 per	DEP
		Assist 5 farmers									Water	Commission	year	
		per year with soil									Coordinator			
		conservation and									for Planning			
		nutrient									Commission			
		management												
		plans (portion of									1 – FTE Clean	Conservation	\$130,000 per	DEP
		10,000 acres of									Water	District	year	
		new soil									Coordinator			
		conservation and									for			
		water quality									Conservation			
		plan goal)									District	1	1	

		<u>Green</u> - actio	n has been comp	leted or is moving	g forward as		tion has encount			n has not been	taken or has encou			
						Potential		Resources	s <u>Available</u>			Resource	s <u>Needed</u>	
Action #	Description	Performance Target(s)	Partners	Geographic Location	Expected Timeline	Implementation Challenges or Recommendations	Technical	Source	Financial	Source	Technical	Suggested Source	Financial	Suggested Source
# 3.1Cb	Implement the	Develop MOUs	CCPC,	Cambria	Ongoing	Lack of funding	Technical	Source	Filidiicidi	Source	1 – Municipal	Municipalities,	\$140,000 per	TBD
5.100	2020 Cambria County Conservation District Strategic	with muni's on E&S, meet with 12 muni's a year	CCPC, Municipalities, CCCD, DEP BAMR, PDA, DEP, Cambria	Countywide	Ungoing	and technical assistance to support restoration					Engineers	Planning Commission, COG	year	
	Plan	Meet with 15 muni's in 3 years to promote stormwater	County Redevelopme nt Authority, DCNR, NRCS, Prince Gallitzin			initiatives					2 – FTE Design, Permit construction Services	Private Sector/ PCCD	\$280,000	DEP/NRCS/ SCC/PDA
		management planning Meet with county	State Park, SCC, PACD, WPCAMR,								1 – stream biologists	PCCD/other?	\$140,000 per year	DEP/DCNR/ EPA
		agencies to promote stormwater planning and ACT 167 requirements	WPCANIK, WPC, Americorps, Benscreek Canoe Club, PAFBC, PSU Extension								3 – additional Ag Planners to provide technical assistance and ag planning	District/NRCS/ Private Sector Farm Visits	\$390,000 per year	DEP/NRCS/ SCC/PDA
		Have at least 1 demonstration project by 2022 to showcase									2 – FTE Design, Permit construction Services	Private Sector/ PCCD	\$280,000 per year	DEP/NRCS/ SCC/PDA
		stormwater BMPs									1 – FTE Clean Water	Planning Commission	\$130,000 per year	DEP
		Achieve addition of 2 staff to district employees by									Coordinator for Planning Commission			
		2025									1 – FTE Clean Water	Conservation District	\$130,000 per year	DEP
		Increase 1 FTE for program support, environmental									Coordinator for Conservation			

				leted or is moving	.	Potential			s <u>Available</u>		taken or has enco		es <u>Needed</u>	
Action #	Description	Performance Target(s)	Partners	Geographic Location	Expected Timeline	Implementation Challenges or Recommendations	Technical	Source	Financial	Source	Technical	Suggested Source	Financial	Suggeste Source
3.2C	Implement Brubaker Run Cold Water Conservation Plan	Address remaining AMD and AML issues through restoration efforts Culvert replacement	CCPC, Municipalities, CCCD, PAFBC Work with municipal officials, business owners,	Brubaker Run Watershed	Ongoing	Lack of technical assistance to support with implementation of restoration initiatives Lack of funding to support					 1 – FTE Clean Water Coordinator for Planning Commission 1 – FTE Clean Water Coordinator 	Planning Commission Conservation District	\$130,000 per year \$130,000 per year	DEP
		projects Opportunities for stream restoration near Hastings Work with farmers to educate them on erosion and sediment control	residents and PennDOT for stormwater BMPs			restoration efforts Need to secure AMD/AML funding					for Conservation District			
		Continue to fund Dirt and Gravel road projects												

		<u>oreen</u> - actio		eleted or is moving		Potential			s <u>Available</u>	on has not been t			es <u>Needed</u>	
Action #	Description	Performance Target(s)	Partners	Geographic Location	Expected Timeline	Implementation Challenges or Recommendations	Technical	Source	Financial	Source	Technical	Suggested Source	Financial	Suggested Source
Priori	ty Initiative 3F	: Achieve New	Pollutant R	eductions Fi	ulton Cou	inty		-						
3.1F	Develop a plan for Big Cove Creek	Conservation District received a Growing Greener grant to develop a Plan for Big Cove Creek. Ensure the goals of this WIP align with CAP goals. Use the plans to leverage funding. Mainly AG Implementation, some urban implementation, and forest management.	FCCD, Center for Watershed Protection	Big Cove Creek Upper portion of Big Cove Creek is primary focus for impaired restoration efforts	1	District is focusing many of the AG activities and stream restoration in this watershed. Ensure the Plan allows the CD to utilize 319 funding to support implementation. Consider utilizing rapid delisting approach to identify most cost- effective landowners to pursue			Plan Writing Dollars	Growing Greener Grant			Implement Projects with 319 Funding	319 Program
3.2F	Exploring opportunities to develop a plan for Cove Run Watershed	Look to secure funding to write a develop either a 319 WIP, Alternative Restoration Plan or Cold-Water Conservation Plan to support implementation goals of the Phase 3 WIP.	FCCD, NRCS,	Cove Run Watershed	2022 – secure funding for plan developm ent 2023 – begin plan writing	Securing funding to support the development of an additional watershed plan. Might be able to move forward with some implementation projects with out plan development.					Rapid Delisting approach	Chesapeake Conservancy	\$150,000 for plan development	Growing Greener

	1	<u>Green</u> - action	n has been comp	leted or is moving	g forward as I		tion has encounte			n has not been	taken or has enco	untered a serious	barrier	
						Potential		Resources	s <u>Available</u>			Resource	es <u>Needed</u>	
Action		Performance		Geographic	Expected	Implementation Challenges or				-		Suggested		Suggester
#	Description	Target(s)	Partners	Location	Timeline	Recommendations	Technical	Source	Financial	Source	Technical	Source	Financial	Source
riori	ty Initiative 3H	: Achieve New	Pollutant F	Reductions H	luntingdo	on County								
.1H	Implement the	Continue	Shoups Run	Miller Run	Ongoing	Lack of technical					1 – FTE Clean	Planning	\$130,000 per	DEP
	Miller Run Cold	semiannual	Watershed	Watershed		assistance to					Water	Commission	year	
	Water Heritage	water quality	Association,			support with					Coordinator			
	Conservation Plan	monitoring	HCCD, PA			implementation of					for Planning			
			Game			restoration					Commission			
		Continue to	Commission			initiatives								
		Address									1 – FTE Clean	Conservation	\$130,000 per	DEP
		remaining AMD				Lack of funding to					Water	District	year	
		and AML issues				support					Coordinator			
		through				restoration efforts					for			
		restoration				If existing AMD					Conservation District			
		efforts, ongoing maintenance of				system fail water					District			
		existing systems				quality will return							Funding and	TBD
		CRISTING Systems				to hazardous levels							technical	
		Ensure farmland											assistance to	
		managed by				Miller Run has							continue	
		Game				been delisted, but							monitoring	
		Commission has				macros still need							and	
		BMPs and are				improvement.							maintenance	
		properly												
		managed				Work with Juniata College to perform								
		Reporting and				additional								
		Verification of				monitoring efforts.								
		existing projects												
		implemented												
		2000-2010												
2H	Implement	Plan is currently	HCCD	Standing	9/2021	Lack of technical					1 – FTE Clean	Planning	\$130,000 per	DEP
	Standing Stone	under		Stone Creek	completio	assistance to					Water	Commission	year	
	Creek Coldwater	development and		Watershed	n	support with					Coordinator			
	Conservation Plan	set to be finished			Ongoing	implementation of					for Planning			
		in September of 2021			Ongoing implemen	restoration initiatives					Commission			
		2021			tation	mulatives					1 – FTE Clean	Conservation	\$130,000 per	DEP
		This plan is an			tation	Lack of funding to					Water	District	year	
		opportunity to				support					Coordinator	District	year	
		help implement				restoration efforts					for			
		CAP Initiatives									Conservation			
											District			

		<u>Green</u> - actio	n has been comp	pleted or is movin	g iorward as	Potential	lion has encoun			n has not been	taken or has enco			
Action		Performance		Geographic	Expected	Implementation Challenges or		Resource	s <u>Available</u>			Suggested	es <u>Needed</u>	Suggested
#	Description	Target(s)	Partners	Location	Timeline	Recommendations	Technical	Source	Financial	Source	Technical	Source	Financial	Source
3.3H	Juniata University Urban Tree Initiative	Juniata College has established a "Tree Care Plan" along with a tree advisory committee to	Juniata College, Tree Advisory Committee, Huntingdon borough tree	Juniata College	Ongoing	Partner with Huntingdon borough tree commission and borough to implement	Volunteer services	Juniata College			1 – FTE Clean Water Coordinator for Planning Commission	Planning Commission	\$130,000 per year	DEP
		further implementation of trees on campus.	commission and service			projects. If the tree commission has more funding, they could implement					1 – FTE Clean Water Coordinator for	Conservation District	\$130,000 per year	DEP
		Partner with Huntingdon Borough Tree Commission				more projects.					Conservation District		\$50,000 to support Huntingdon Borough Tree Commission	TBD
3.4H	Explore options for developing a watershed restoration plan at Great Trough Creek, Dudley	A desire to implement plans at Great Trough Creek, Dudley Discharge, Fort Run, Warriors	SRBC, Chesapeake Conservancy, Conservation District,	Great Trough Creek, Dudley Discharge, Fort Run, Warriors Run, Sadler Creek		Funds are available to address Great Trough Creek; however, funds are in general services and there is a legal					1 – FTE Clean Water Coordinator for Planning Commission	Planning Commission	\$130,000 per year	DEP
	Discharge, Fort Run, Warriors Run	Run. DEP developing a plan on Great Trough Creek to address the Dudley Run				battle transferring these funds to Bureau of Mining. This must be accomplished before a plan can be developed					1 – FTE Clean Water Coordinator for Conservation District	Conservation District	\$130,000 per year	DEP

		<u>Green</u> - actic	on has been comp	pleted or is movin	g forward as		tion has encounte			n has not been	taken or has enco			
						Potential		Resources	<u>Available</u>			Resourc	es <u>Needed</u>	
Action		Daufaumanaa		Coographia	Eveneted	Implementation						Suggested		Suggester
Action	Description	Performance	Douturouro	Geographic	Expected	Challenges or	Technical	Courses	Financial	Courses	Teshaisel	Suggested	Financial	Suggested
#	Description	Target(s)	Partners	Location	Timeline	Recommendations	Technical	Source	Financial	Source	Technical	Source	Financial	Source
3.5H	Shoups Run 319 WIP	BAMR is currently in the	BAMR, Conservation	Great Trough Creek and	Ongoing	DEP must be successful with the					1 – FTE Clean Water	Conservation District	\$130,000 per year	DEP
	VVIE	design phases of	District	Dudley		implantation of the					Coordinator	District	year	
		an abandoned	District	Discharge,		Dudley Discharge					for			
		mine land		Shoups Run		AMD site.					Conservation			
		reclamation		Shoups Run		AND SILC.					District			
		project in the									District			
		Great Trough												
		Creek watershed												
		approximately 4												
		miles south of												
		Dudley.												
		Dualcy												
		Streambank												
		stabilization												
		projects and dirt												
		and gravel road												
		BMP's using high												
		calcium												
		limestone have												
		been identified												
		as possible												
		solutions to the												
		acidic deposition												
		problem												
		Plans to												
		construct a												
		wastewater												
		treatment facility												
		for the remaining												
		populated areas												
		of Dudley,												
		Coalmont, and												
		Carbon Township												
		have been												
		completed,												
		funding has been												
		secured, and												
		construction has												
		begun.												

Performance Target(s)		Coorrection		Potential Implementation		Resource	es <u>Available</u>	1		Resource	<u>steaca</u>	1
i argensi 🧧	Partners	Geographic Location	Expected Timeline	Challenges or Recommendations	Technical	Source	Financial	Source	Technical	Suggested Source	Financial	Suggeste Source
Target(3)	T artificts	Location	Timenine	Recommendations	reennear	Jource	Thancia	Jource	reennear	Jource	i manciai	500100
Achieve New P	ollutant Re	ductions Bla	ir, Camb	ria, Fulton, Hur	ntingdon							
will identify	Conservancy	Plum Creek and Tributary to Piney Creek (B) Duclos Run – Chest Creek watershed (ag impaired due to sediment, former potato production, now corn/bean with cover crop and no- till) (C) Cove Run and Big Cove Creek (F) Warriors Mark	2021- 2024	Reinvigorating landowner interest, design/permit/con struction schedules,	Program management and GIS Landowner outreach	Chesapeake Conservancy Partnership stakeholders	\$500,000	NFWF Grant				
	Rapid delisting will identify priority areas and	Rapid delistingChesapeakewill identifyConservancypriority areas andand partners	Rapid delisting will identify priority areas and BMPsChesapeake Conservancy and partnersPlum Creek and Tributary to Piney Creek (B)Duclos Run - Chest Creek watershed (ag impaired due to sediment, former potato production, now corn/bean with cover crop and no- till) (C)Duclos Run - Chest Creek watershed (ag impaired due to sediment, former potato production, now corn/bean with cover crop and no- till) (C)	Rapid delisting will identify priority areas and BMPsChesapeake Conservancy and partnersPlum Creek and Tributary to Piney Creek (B)2021- 2024Duclos Run - Chest Creek watershed (ag impaired due to sediment, former potato production, now corn/bean with cover crop and no- till) (C)2021- 2024	Rapid delisting will identify priority areas and BMPsChesapeake Conservancy and partnersPlum Creek and Tributary to Piney Creek (B)2021- 2024Reinvigorating landowner interest, design/permit/con struction schedules,Duclos Run - Chest Creek watershed (ag impaired due to sediment, former potato production, now corn/bean with cover crop and no- till) (C)2021- 2024Reinvigorating landowner interest, design/permit/con struction schedules,	will identify priority areas and BMPsConservancy and partnersand Tributary to Piney Creek (B)2024landowner interest, design/permit/con struction schedules,management and GISDuclos Run - Chest Creek watershed (ag impaired due to sediment, former potato production, now corn/bean with cover crop and no- till) (C)Duclos Run - Chest Creek (F)landowner interest, design/permit/con struction schedules,Landowner outreach	Rapid delisting will identify priority areas and BMPsChesapeake Conservancy and partnersPlum Creek and Tributary to Piney Creek (B)2021- 2024Reinvigorating landowner interest, design/permit/con struction schedules,Program management and GISChesapeake Conservancy Partnership stakeholdersDuclos Run - Chest Creek watershed (ag impaired due to sediment, former potato production, now corn/bean with cover crop and no- till) (C)Reinvigorating landowner interest, design/permit/con struction schedules,Program management and GISChesapeake Conservancy Partnership stakeholders	Rapid delisting will identify priority areas and BMPsChesapeake Conservancy and partnersPlum Creek and Tributary to Piney Creek (B)2021- 2024Reinvigorating landowner interest, design/permit/con struction schedules,Program management and GISChesapeake Conservancy Partnership stakeholders\$500,000Duclos Run - Chest Creek watershed (ag impaired due to sediment, former potato production, now corn/bean with cover crop and no- till) (C)Duclos Run - Chest Creek (F)Cove Run and Big Cove Creek (F)Cove Run and Big Cove Creek (F)Duclos Run - Chest Creek watershed (ag impaired due to sediment, former potato production, now corn/bean with cover crop and no- till) (C)Cove Run and Big Cove Creek (F)Duclos Run - Chest Creek watershed (ag impaired due to sediment, former potato production, now corn/bean with cover crop and no- till) (C)Cove Run and Big Cove Creek (F)Duclos Run - chest Creek watershed (B)Duclos Run - chest Creek watershed (B)Duclos Run - chest Creek watershed (B)Duclos Run - chest Creek watershed (B)Program management and GIS Landowner outreachChest Creek Conservancy Partnership stakeholdersChest Creek Conservancy Partnership to chest Creek Conservancy Partnership to chest Creek (F)Duclos Run - chest Creek Conservancy Partnership Conservancy Partnership Landowner Conservancy Partnership Landowner Conservancy Partnership Landowner Conservancy Partnership Landowner Landowner Conservancy 	Rapid delisting will identify priority areas and BMPsChesapeake Conservancy and partnersPlum Creek and Tributary to Piney Creek (B)2021- 2024Reinvigorating landowner interest, design/permit/con schedules,Program management and GISChesapeake Conservancy Partnership stakeholders\$500,000NFWF GrantBMPsDuclos Run - Chest Creek watershed (ag impaired due to sediment, former potato production, now corn/bean with cover crop and no- till) (C)Duclos Run and Big Cove Creek (F)Cove Run and Big Cove Creek (F)Cove Run and Big Cove Creek (F)Duclos Run and Big Cove Creek (F)Duclos Run and Big Cove Creek (F)Cove Run and Big Cove Creek (F)Duclos Run and Big Co	Rapid delisting will identify priority areas and BMPsChesapeake Conservancy and partnersPlum Creek and Tributary to Piney Creek (B)2021- 2024Reinvigorating landowner interest, design/permit/con struction schedules,Program management and GISChesapeake Conservancy Partnership stakeholdersNFWF GrantBMPsDuclos Run - Chest Creek watershed (ag impared due to sediment, orrep patato production, now corr/bean with cover crop and no- till) (C)Duclos Run - Chest Creek watershed (ag impared due to sediment, former potato production, now corr/bean with cover crop and no- till) (C)Cove Run and Big Cove Creek (F)Reinvigorating landowner schedules,Program management and GIS Landowner outreachChesapeake Conservancy Partnership stakeholders\$500,000NFWF GrantReinvigoration production, now corr/bean with cover crop and no- till) (C)Cove Run and Big Cove Creek (F)2021- 20242021- 2024Program and GIS and GIS conservancy partnership stakeholdersS500,000NFWF Grant	Rapid delisting will identify priority areas and BMPsChesapeake Conservancy and partnersPlum Creek and Tributary to Piney Creek (B)2021- 2024Reinvigorating landowner interest, design/permit/con struction schedules,Program management and GIS Landowner outreachChesapeake Conservancy Partnership stakeholdersNFWF GrantNFWF GrantNFWF GrantDuclos Run- Chest Creek watershed (ag impaired due to sediment, now corn/bean with cover crop and no- till) (C)Duclos Run- Chest Creek (B)Duclos Run- chest Creek watershed (ag impaired due to sediment, former potato production, now corn/bean with cover crop and no- till) (C)Cove Run and Big Cove Creek (F)Reinvigorating addetsProgram management and GIS Landowner outreachChesapeake Conservancy Partnership stakeholdersNFWF GrantFigure 1000000000000000000000000000000000000	Rapid delisting will dentify priority areas and BMPsChesapeake Conservancy and partnersPlum Creek and Tributary to Piney Creek (B)P2021- and mover interest, design/permit/con struction struction schedules,Program management and GIS Landowner outreachChesapeake Conservancy Partnership stakeholdersNFWF GrantNFWF GrantReinvigorating priority areas and BMPsDudos Run- Chest Creek watershed (ag impaired due to sodiment, former potato prioduction, now corr/bean with cover crog and no- till (C)Pogram corr/bean with cover crog and no- till (C)Program and GIS and GIS Landowner outreachNFWF GrantNFWF GrantImagement and GIS partnership stakeholdersReinvigorating priority areas and BMPsDudos Run- chest Creek watershed (ag impaired due to sodiment, former potato prioduction, now corr/bean with cover crop and no- till (C)Program cover Creek (F)Program and GIS Landowner outreachNFWF GrantNFWF GrantImagement and GIS Partnership stakeholdersReinvigoration and cover Creek (F)Cove Run and Big Cove Creek (F)Cove Run and Big Cove Creek (F)Program and Big Cove Creek (F)Program and GIS And File And File And File And File And File And File And FileProgram And File And File And File And FileProgram And File And File And File And File And FileProgram And File And File And FileReinvigoration And File And FileProgram And File And

4.2(B)	Help farmers and operators to be in compliance with state and federal requirements: Conservation and Nutrient Management Plans	Soil and Water Quality Conservation Plans (AG E&S) 25,000 new acres Nutrient Management (Manure Management) 25,000 new acres of Core N and 15,000 new acres of Core P Work with ACT 38 operators (8), Preserved Farms (56), enter existing plans that were inspected but not reported to PK and certified organics to document plans already required	4R Alliance, BCCD, Blair County Farm Bureau, NRCS, Private Sector Agriculture Farm Visits, Precision Agriculture, Agway, PSU Extension Extension	Blair County Ag Land	2022- 2025	Lack of DEP inspections. Reporting and verification of AG Plans, NRCS plans expire and do not get reverified, private plans are never entered. Lack of Technical assistance to support agriculture planning and implementation, one on one farm outreach is best way to capture existing plans. Act 38 and Preserved Farms not required to enter plans in PK, Recommendations to require programs to enter plans into PK State agencies must work with integrators to ensure they are requiring compliance by farmers. Some integrators require compliance, but not all, great way to communicate with farmers as		6 – additional Ag Planners to work with farmers to meet 4R standards Private Sector Ag Planners – farmers more willing to work with them opposed to district	District/NRCS/ Private Sector Farm Visits	\$780,000 per year	DEP/NRCS/ SCC/PDA
4.2(C)	See 4.2B	Soil and Water Quality Conservation Plans (AG E&S) 10,000 new acres Nutrient Management	4R Alliance, CCCD, Cambria County Farm Bureau, NRCS, Private Sector Agriculture Farm Visits,	Cambria County Ag Land – Chesapeake Bay Portion	2022- 2025	well. See 4.2 B Rented ground changing hands every year, hard to keep plans up to date each year.	S0 inspections completed per year for last 3- years (150 total)CCCDImage: CCCD image: CCCD	3 – additional Ag Planners to work with farmers to meet 4R standards	District/NRCS/ Private Sector Farm Visits	\$390,000 per year	DEP/NRCS/ SCC/PDA

		<u>Green</u> - actio	n has been comp	leted or is moving	g forward as	planned <u>Yellow</u> - ac Potential	tion has encount		cles <u>Red</u> - actio s Available	on has not been t	aken or has encou		barrier es Needed	
Action		Performance		Geographic	Expected	Implementation Challenges or		Resources				Suggested		Suggestee
#	Description	Target(s)	Partners	Location	Timeline	Recommendations	Technical	Source	Financial	Source	Technical	Source	Financial	Source
		(Manure Management) 15,000 new acres of Core N and 5,500 new acres of Core P Work with ACT 38 operators (1 currently), Preserved Farms (20), and certified organics to document plans	Growmark Farm Service, PSU Extension			PA One Stop Needs Revised to include the most modern farming practices. Some farmers are using this program to develop their own plans.								
4.2(F)	See 4.2B	 already required Soil and Water Quality Conservation Plans (AG E&S) 15,500 new acres Nutrient Management (Manure Management) 24,500 new acres of Core N and 18,500 new acres of Core P Work with ACT 38 operators (12), Preserved Farms (240 acres), and certified organics to document plans already 	4R Alliance, FCCD, Fulton County Farm Bureau, NRCS, Private Sector Agriculture Farm Visits, PSU Extension	Fulton County Ag Land	2022-2025	See 4.2B Better information sharing with NRCS. Chesapeake Bay Inspections are the best way to capture and document Plan Compliance Prefer additional District staff over a consultant to conduct one on one farm outreach	75 inspections performed per year; 17 plans developed per year NRCS can develop and update about 20 plans per years.	FCCD			6 – additional Ag Planners to work with farmers to meet 4R standards	District/NRCS/ Private Sector Farm Visits	\$780,000 per year	DEP/NRCS/ SCC/PDA

			n has been comp			Potential Implementation			s <u>Available</u>		taken or has encou		s <u>Needed</u>	
ction #	Description	Performance Target(s)	Partners	Geographic Location	Expected Timeline	Challenges or Recommendations	Technical	Source	Financial	Source	Technical	Suggested Source	Financial	Suggestee Source
2(H)	See 4.2B	Soil and Water Quality Conservation Plans (AG E&S) 30,000 new acres Nutrient	4R Alliance, HCCD, Huntingdon County Farm Bureau, NRCS, Private Sector Agriculture	Huntingdon County Ag Land	2022- 2025	See 4.2B	12 Inspections completed per year for a total of about 50 completed over the last 4 years	HCCD			Cost share support for equipment (Spreaders)	Private Consultant/ District/ NRCS	\$100,000 cost share budget per year (maintenance, staff support and cost)	DEP
		Management (Manure Management) 25,000 new acres of Core N and 15,000 new acres of Core P	Farm Visits, R&R Engineering,								6 – additional Ag Planners to work with farmers to meet 4R standards	District/NRCS/ Private Sector Farm Visits	\$780,000 per year	DEP/NRCS/ SCC/PDA
		Work with ACT 38 operators (24), Preserved Farms (11), and certified organics to document plans already												

		<u>Green</u> - actio	n has been comp	pleted or is movin	g forward as		ction has encoun			n has not been	taken or has encou			
						Potential		Resource	es <u>Available</u>			Resource	s <u>Needed</u>	_
						Implementation								
Action		Performance		Geographic	Expected	Challenges or						Suggested		Suggestee
#	Description	Target(s)	Partners	Location	Timeline	Recommendations	Technical	Source	Financial	Source	Technical	Source	Financial	Source
4.3	Advanced Nutrient	Transition	4R Alliance,	Blair County	2022-	Landowner	Educational	CBF/4R			21 – additional	District/NRCS/	\$2,730,000	DEP/NRCS/
	Management (4R)	manure	CD, County	Ag Land	2025	interest, BMP	support	Alliance			Ag Planners to	Private Sector	per year	SCC/PDA
	Practice Education	management	Farm Bureau,			verification					provide	Farm Visits		
	and	plans to nutrient	NRCS, Private	Cambria		(annual)					technical			
	Implementation	management	Sector	County AG							assistance and			
		plans and	Agriculture	Land –		Lack of Technical					ag planning			
		incentivize	Farm Visits,	Chesapeake		assistance to					(Blair 6,			
		implementation	Precision	Вау		support agriculture					Cambria 3,			
		Increase existing	Agriculture,	Watershed		planning and					Huntingdon 6,			
		4R practice (N	Agway, PSU			implementation					Fulton 6,)			
		Rate, Timing and	Extension	Fulton County										
		Placement by		Ag Land		Additional funding					Cost share	Cambria	\$250,000 cost	DEP
		5,000 acres per				to support soil					support for	Conservation	share budget	
		year) (B)		Huntingdon		testing. Soil testing					equipment –	District	per year	
				County AG		is key to meeting					precision AG			
		(N/P Rate, Timing		Land		the					Spreader (C)			
		and Placement				recommendations								
		by 1,000 acres				of supplemental					Cost share	Private	\$100,000 cost	DEP
		per year) (C)				BMPs.					support for	Consultant/	share budget	
											equipment	District/ NRCS	per year	
		(N Rate by 500				Machine					(Spreaders)(H)		(maintenance,	
		acres, N Timing				dependent for							staff support	
		by 6,000 acres, N				most farming							and cost)	
		Placement by				operations								
		6,000 acres and P												
		Placement/rate/				Cost of fertilizer is								
		timing by 4,000				self-regulating								
		acres) (F)				farmers to use less								
						fertilizer;								
		(N Rate by 4,000,				therefore, lower								
		P Rate by 8,000,				rates								
		N/P, Timing and												
		Placement by												
		8,000 acres per												
		year) (H)												

4.4	Implement Practice	Determine	CD, County	Blair County	2022-	Current	Transect	Capital RC&D	EQIP – pays	NRCS
	to improve soil	feasibility of	Farm Bureau,	Ag Land	2023	verification	survey		\$50 per acre	
	health and	having a	NRCS, Private			methods do not			for single	
	sustainability	county/state cost	Sector	Cambria		accurately capture	2 – No till drills	Cambria	species, \$60	
	(Tillage	share program to	Agriculture	County AG		implemented	for rent	County District	per acre for 3	
	Management and	enhance	Farm Visits,	Land –		amounts - work			species	
	Cover Crops)	adoption of the	Precision	Chesapeake		with Capital RC&D	1 – No till drill	Fulton County		
		annual practice,	Agriculture,	Bay		and DEP to	for rent	District		
		pay incentive	Agway, PSU	Watershed		improve transect				
		payment per acre	Extension			survey routes and				
				Fulton County		data collection				
		Implement tillage		Ag Land		methodology				
		management and		0						
		cover crops on an		Huntingdon		Lack of technical				
		annual rate of		County AG		assistance and				
		19,000 acres High		Land		farm planners to				
		Residue, 12,000				work with farmers				
		acres				to transition to				
		Conservation				High Residue				
		Tillage, 5,200				Tillage				
		acres Low				Thidge				
		Residue, 8,500				Farmers are				
		acres of cover				harvesting cover				
		crops and 12,500				crops for animals,				
		acres of cover				need accurate				
		crops with fall				crediting for				
						-				
		nutrients (B)				commodity cover				
						crops				
		8,000 acres HR				Eviating Course Cran				
		6,500 acres CT,				Existing Cover Crop				
		3,000 acres LR,				Programs have				
		6,300 acres of CC				strict plant by date				
		and 1,000 acres				that does not work				
		of CC with fall				with changing				
		nutrients (C)				weather patterns				
		40.000				and wetter years				
		10,000 acres HR,								
		7,700 acres CT,				Organic farmers				
		5,000 acres LR				are using tillage to				
		7,700 acres of CC				manage weeds and				
		and 8,700 acres				vertical tillage is				
		of CC with fall				becoming more				
		nutrients (F)				popular among				
						farmers, younger				
		20,000 acres HR,				generation is				
		10,000 acres CT,				"trying" tillage for				
		4,000 acres LR,				experience.				
		8,000 acres of CC				Potato farmers use				
		and 10,000 acres				tillage as part of				
		of CC with fall				their operational				
		nutrients (H)				plans				

21 – additional Ag Planners to provide technical assistance and ag planning (Blair 6, Cambria 3, Huntingdon 6, Fulton 6,)	District/NRCS/ Private Sector Farm Visits	\$2,730,000 per year	DEP/NRCS/ SCC/PDA
Cost share support for equipment – No-till Drill, must include additional staff to support rentals, plus storage and a vehicle	Fulton County Conservation District Huntingdon County Conservation District	\$250,000 per conservation district (\$500,000 total)	DEP

			n has been comp		5 IUI walu as	Potential	cion nas encoun		es <u>Available</u>		taken or has encou	Resource		
						Implementation		Resource	s <u>Avallable</u>			Resource	s <u>needed</u>	
Action		Performance		Geographic	Expected	Challenges or						Suggested		Suggested
#	Description		Partners	Location	Timeline	Recommendations	Technical	Sourco	Financial	Source	Technical	Source	Financial	Source
	•	Target(s)						Source						
4.5 B	Implement more pasture	Prescribed grazing – 80 acres	BCCD, Blair County Farm	Blair County Ag landowners	2022- 2025	Landowner education, BMP	Landowner education	NRCS	CBF grant	ARC Funding	6 – additional Ag Planners to	District/NRCS/ Private Sector	\$780,000 per	DEP/NRCS/ SCC/PDA
	management BMPs	grazing – ou acres	Bureau, NRCS,	who raise	2023	funding for non-	education				provide	Farm Visits	year	SCC/FDA
	management bivirs	Forest buffers on	Private Sector	horses, dairy,		buffer work, plan					technical			
		fenced pasture	Agriculture	beef and other		updates, data					assistance and			
		corridor – 35	Farm Visits,	pasture		gathering					ag planning			
		acres	Precision	grazing		gathering								
		ucres	Agriculture,	animals		Lack of Technical								
		Grass buffers on	Agway, PSU	anniais		assistance to								
		fenced pasture	Extension			support agriculture								
		corridor – 35	Extension			planning and								
		acres				implementation								
4.5C	Implement more	Prescribed	CCCD,	Cambria	2022-	See 4.5B	Landowner	NRCS	CBF grant	ARC Funding	3 – additional	District/NRCS/	\$390,000 per	DEP/NRCS/
	pasture	grazing – 125	Cambria	County Ag	2025		education		obi Branc		Ag Planners to	Private Sector	year	SCC/PDA
	•	acres	County Farm	landowners	2020	Old NRCS plans	cudeation				provide	Farm Visits	year	000,10,1
			Bureau, NRCS,	who raise		need to be					technical			
		Pasture	Private Sector	horses, dairy,		updated to comply					assistance and			
		Alternative	Agriculture	beef and other		with prescribed					ag planning			
		Watering – 250	Farm Visits,	pasture		grazing definition –								
		acres	Growmark	grazing		difficult to get								
			Farm Service,	animals –		landowner buy-in –								
		Forest buffers on	PSU Extension	Chesapeake		fund alternative								
		fenced pasture		Bay Portion		watering and								
		corridor – 10				fencing; most								
		acres				pastures are								
						streamside								
		Grass buffers on												
		fenced pasture												
		corridor – 12												
		acres												
4.5F	Implement more	Prescribed	FCCD, Fulton	Fulton County	2022-	See 4.5B	Landowner	NRCS	CBF grant	ARC Funding	6 – additional	District/NRCS/	\$780,000 per	DEP/NRCS/
	pasture	grazing – 100	County Farm	Ag landowners	2025		education				Ag Planners to	Private Sector	year	SCC/PDA
	management BMPs	acres	Bureau, NRCS,	who raise		Increasing					provide	Farm Visits		
			Private Sector	horses, dairy,		construction costs					technical			
		Forest buffers on	Agriculture	beef and other		are cancelling					assistance and			
		fenced pasture	Farm Visits,	pasture		NRCS contracts					ag planning			
		corridor – 5 acres	PSU Extension	grazing										
				animals										
		Grass buffers on												
		fenced pasture												
		corridor – 5 acres												

		<u>Green</u> - actio	n has been comp	leted or is moving	g forward as		ction has encoun			on has not been t	taken or has enco			
						Potential		Resource	es <u>Available</u>			Resource	es <u>Needed</u>	
Action		Performance		Geographic	Expected	Implementation Challenges or						Suggested		Suggested
#	Description	Target(s)	Partners	Location	Timeline	Recommendations	Technical	Source	Financial	Source	Technical	Source	Financial	Source
4.5H	Implement more pasture management BMPs	Prescribed grazing – 4,600 acres Forest buffers on fenced pasture corridor – 25 acres Grass buffers on fenced pasture	HCCD, Huntingdon County Farm Bureau, NRCS, Private Sector Agriculture Farm Visits, R&R Engineering,	Huntingdon County Ag landowners who raise horses, dairy, beef and other pasture grazing animals	2022- 2025	See 4.5B	Landowner education	NRCS	CBF grant	ARC Funding	6 – additional Ag Planners to provide technical assistance and ag planning	District/NRCS/ Private Sector Farm Visits	\$780,000 per year	DEP/NRCS/ SCC/PDA
4.6(B)	Riparian buffer and re-forestation BMPs	corridor – 25 acres 350 riparian forest buffer acres – new buffer; Need to recredit additional acres	BCCD, Blair County Farm Bureau, NRCS, Private Sector Agriculture Farm Visits,	Blair County Ag Land	2022- 2025	Landowner partnerships, landowner education, volunteer acceptance of	Materials	BCCD (in-kind, annual tree sale efforts), CBF Chesapeake	Budget available to be determined Utilize PFBC incentive	CBF, NFWF, NFWS, NRCS - CREP	3 – FTE Municipal/ Environmental Planners and Technical Assistance	CBF/BCCD/ Chesapeake Conservancy/ Planning Department	\$390,000 per year	DCNR, NFWF PACD, TreeVitalize, DEP, Coldwater Heritage
		lost since 2010 85 riparian grass buffer acres – new buffer; Need to recredit additional acres lost since 2010 15 acres – urban forest buffer	Precision Agriculture, Agway, PSU Extension			buffer plantings, buffer maintenance guide for farmers, routine site visits to confirm buffers are thriving, invasive species removal during establishment		Conservancy	program to pay landowners for fishing access					Partnership Implementat n Grants, Landscape Scale Restoration (LSR) Grant Program – US Forest Servic
		2 acres – urban tree canopy 40 acres – urban forest planting				Lack of technical assistance to conduct landowner outreach, implementation, and maintenance of proposed projects								

			n has been comp		g loi wal'u as	Potential		tered minor obsta Resource	s <u>Available</u>				es <u>Needed</u>	
Action #	Description	Performance Target(s)	Partners	Geographic Location	Expected Timeline	Implementation Challenges or Recommendations	Technical	Source	Financial	Source	Technical	Suggested Source	Financial	Suggested Source
4.6(C)	Riparian buffer and re-forestation BMPs	 174 riparian forest buffer acres 113 riparian grass buffer acres 56 acres – Agriculture Tree Planting 10 acres – urban forest buffer 5 acres – urban tree canopy 2 acre – Urban Forest Planting 50 acres – Forest Harvesting Practices 	CCCD, Cambria County Farm Bureau, NRCS, Private Sector Agriculture Farm Visits, Growmark Farm Service, PSU Extension	Cambria County Ag Land – Chesapeake Bay Portion	2022- 2025	See 4.6B Funding program must include a 5- 10-year maintenance program to establish buffers along with incentive program similar to \$4K per acre payment	Materials	CCCD (in-kind, annual tree sale efforts), CBF Chesapeake Conservancy	Budget available to be determined	CBF, NFWF, NFWS, NRCS - CREP	2 – FTE Municipal/ Environmental Planners and Technical Assistance	CBF/CCCD/ Chesapeake Conservancy/ Planning Department	\$260,000 per year	DCNR, NFWF, PACD, TreeVitalize, DEP, Coldwater Heritage Partnership Implementat n Grants, Landscape Scale Restoration (LSR) Grant Program – US Forest Service

			on has been comp			Potential			acles <u>Red</u> - actions Available				es <u>Needed</u>	
ction		Performance		Geographic	Expected	Implementation Challenges or						Suggested		Suggested
#	Description	Target(s)	Partners	Location	Timeline	Recommendations	Technical	Source	Financial	Source	Technical	Source	Financial	Source
6(F)	Riparian buffer and	305 riparian	FCCD, Fulton	Fulton County	2022-	See 4.6B	Materials	PCCD (in-kind,	Budget	CBF, NFWF,	3 – FTE	CBF/PCCD/	\$390,000 per	DCNR, NFW
	re-forestation	forest buffer	County Farm	Ag Land	2025			annual tree	available to be	NFWS, NRCS -	Municipal/	Chesapeake	year	PACD,
	BMPs	acres	Bureau, NRCS,			Buffer plantings		sale efforts),	determined	CREP	Environmental	Conservancy/		TreeVitalize,
			Private Sector			are becoming		CBF			Planners and	Planning		DEP,
		45 riparian grass	Agriculture			more expensive					Technical	Department		Coldwater
		buffer acres	Farm Visits, PSU Extension			must increase	Mapping	Chesapeake			Assistance			Heritage
		23 acres –	PSU Extension			dollars per acre provided		Conservancy						Partnership Implementa
		Agriculture Tree				provided								n Grants,
		Planting												Landscape
														Scale
		40 acres – urban												Restoration
		forest buffer												(LSR) Grant
								K						Program – US
		10 acres – urban												Forest Servic
		tree canopy												
		1 acre – Urban												
		Forest Planting												
		Torest Hanting												
		150 acres –												
		Forest Harvesting												
		Practices												

				leted or is movin		Potential		tered minor obsta Resource	s <u>Available</u>				es <u>Needed</u>	
ction		Performance		Geographic	Expected	Implementation Challenges or						Suggested		Suggested
#	Description	Target(s)	Partners	Location	Timeline	Recommendations	Technical	Source	Financial	Source	Technical	Source	Financial	Source
6(H)	Riparian buffer and	414 riparian	HCCD,	Huntingdon	2022-	See 4.6B	Materials	PCCD (in-kind,	Budget	CBF, NFWF,	3 – FTE	CBF/PCCD/	\$390,000 per	DCNR, NFW
	re-forestation	forest buffer	Huntingdon	County Ag	2025			annual tree	available to be	NFWS, NRCS -	Municipal/	Chesapeake	year	PACD,
	BMPs	acres	County Farm	Land				sale efforts),	determined	CREP	Environmental	Conservancy/		TreeVitalize
			Bureau, NRCS,					CBF			Planners and	Planning		DEP,
		65 riparian grass	Private Sector								Technical	Department		Coldwater
		buffer acres	Agriculture				Mapping	Chesapeake			Assistance			Heritage
			Farm Visits,					Conservancy						Partnership
		24 acres –	R&R											Implementa
		Agriculture Tree	Engineering,											n Grants,
		Planting	Huntingdon											Landscape
			Borough Tree											Scale
		40 acres – urban	Commission,											Restoration
		forest buffer	Juniata River											(LSR) Grant
		30 acres – urban	Blueprint											Program – U Forest Servi
			Community, Juniata											Forest Servi
		tree canopy	College,											
		10 acres – Urban	Mount Union											
		Forest Planting	Borough											
		Torest Hanting	borough											
		850 acres –												
		Forest Harvesting												
		Practices												

			on has been comp			Potential		tered minor obstac Resources				Resource		
ction #	Description	Performance Target(s)	Partners	Geographic Location	Expected Timeline	Implementation Challenges or Recommendations	Technical	Source	Financial	Source	Technical	Suggested Source	Financial	Suggested Source
4.7	Wetland restoration implementation on marginal production ag land	26 acres of Wetland Restoration (B) 28 acres of Wetland Restoration (C)	Conservation District, County Farm Bureau, NRCS, Private Sector Agriculture Farm Visits, Precision	Blair County Ag Land Cambria County Ag Land – Chesapeake Bay Portion	2022 – 2025	Willing landowner; appropriate siting, design, and construction for successful restoration result Lack of technical assistance for	Landowner outreach	Conservation District and NRCS staff person			Preliminary design	USFWS	Assume \$1,000,000 for land acquisition, Assume \$400,000 project budget	Seek a co- benefits funding sour
		18 acres of Wetland Restoration (F) 14 acres of Wetland Restoration (H)	Agriculture, Agway, PSU Extension, Watershed Organizations	Bay Portion Fulton County Ag Land Huntingdon County Ag Land		assistance for landowner outreach and agriculture planning to identify potential site locations					21 – additional Ag Planners to provide technical assistance and ag planning (Blair 6, Cambria 3, Huntingdon 6, Fulton 6,)	District/NRCS/ Private Sector Farm Visits	\$2,730,000 per year	DEP/NRCS/ EPA/PDA/SC
											11 – FTE Design, Permit construction Services (Blair- 3, Cambria-2, Fulton-3, Huntingdon-3)	Private Sector/ District/ Planning Commission	\$1,430,000	DEP/NRCS/ SCC/PDA

			n has been comp			Potential		tered minor obstac Resources				Resource		
Action #	Description	Performance Target(s)	Partners	Geographic Location	Expected Timeline	Implementation Challenges or Recommendations	Technical	Source	Financial	Source	Technical	Suggested Source	Financial	Suggested Source
4.8	Stream Restoration (Urban and Agriculture)	31,240 (~6 mile) Linear feet Urban Stream Restoration,	CBF, Chesapeake Conservancy, TU National,	Blair Countywide and Priority HUCs	2022 – 2025	Design/permit/con struction cycle seems to work in two-year	Design/GP-1 permit	Trout Unlimited, Municipalities			Design, permit, construction services	Private sector, USFWS, TU	Assume \$450/LF - \$20.54 M	Growing Greener, NFWF, DEP, DCNR
		3,000 Linear feet Ag Stream Restoration (B)	PFBC Stream Restoration Team, NRCS, Conservation	Cambria Countywide		increments, there is an assumption that					7 – Municipal	Municipalities,	Assume \$50/LF - \$1.05M	TBD
		8,400 Linear feet Urban Stream Restoration, 4,000 Linear feet Ag Stream	District, Planning Commission, Municipalities, ISC,	and Priority HUCs – Chesapeake Bay Portion Fulton		eroded/degraded streams exist based upon 403(d) listing – should that not be the case in the field,					Fulton-2, Huntingdon-2)	Planning Commission, COG	\$980,000 per year	שאו
		Restoration (C) 3,000 Linear feet Urban Stream Restoration, 10,000 Linear feet Ag Stream Restoration (F)	Watershed Organizations, Trust for Tomorrow, WPC, TU JK Chapter,	Countywide and Priority HUCs Huntingdon Countywide and Priority HUCs		adjust quantitative goal down and ensure buffers are in place Lack of funding to cover engineering design					11 – FTE Design, Permit construction Services (Blair- 3, Cambria-2, Fulton-3, Huntingdon-3)	Private Sector/ PCCD	\$1,430,000 per year	DEP/NRCS/ SCC/PDA
		3,000 Linear feet Urban Stream Restoration, 4,000 Linear feet Ag Stream Restoration (H)									5 – stream biologists (Blair-2, Cambria-1, Fulton-1, Huntingdon-1)	PCCD/other?	\$700,000 per year	DEP/DCNR/ EPA

				leted or is moving		Potential			s <u>Available</u>		taken or has encou	Resource		
Action #	Description	Performance Target(s)	Partners	Geographic Location	Expected Timeline	Implementation Challenges or Recommendations	Technical	Source	Financial	Source	Technical	Suggested Source	Financial	Suggestec Source
	Implement more barnyard runoff control/loafing lot management	30 acres of barnyard runoff controls (B) Work with GIS department to identify barnyards within 150 feet of stream for prioritizing 5 acres of barnyard runoff controls, 100 acres of agricultural drainage management (C) 10 acres of barnyard runoff controls, 29 acres of agricultural drainage management (F) 40 acres of barnyard runoff controls, 30 acres of agricultural drainage	Conservation District, County Farm Bureau, NRCS, Private Sector Agriculture Farm Visits, Precision Agriculture, Agway, PSU Extension	Blair County Ag Land Cambria County Ag Land – Chesapeake Bay Portion Fulton County Ag Land Huntingdon County Ag Land	2022 - 2025	Landowner buy-in and project development/fund ing Lack of Technical assistance to support agriculture planning and implementation Lack of funding to cover engineering design Increasing construction costs are cancelling NRCS contracts	Engineering Support	NRCS			21 – additional Ag Planners to provide technical assistance and ag planning (Blair 6, Cambria 3, Huntingdon 6, Fulton 6,) 11 – FTE Design, Permit construction Services (Blair 3, Cambria 2, Huntingdon 3, Fulton 3,)	District/NRCS/ Private Sector Farm Visits Private Sector/ District	\$2,730,000 per year \$1,540,000 per year	DEP/NRCS/ SCC/PDA

		<u>Green</u> - actio	n has been comp	leted or is moving	g forward as I	planned <u>Yellow</u> - act	ion has encounte	ered minor obsta	cles <u>Red</u> - actio	n has not been	taken or has encou	Intered a serious	barrier	
						Potential		Resources	s <u>Available</u>			Resource	s <u>Needed</u>	
						Implementation								
Action		Performance		Geographic	Expected	Challenges or						Suggested		Suggeste
#	Description	Target(s)	Partners	Location	Timeline	Recommendations	Technical	Source	Financial	Source	Technical	Source	Financial	Source
l.10	Animal waste	10,000 new AUs	Conservation	Blair County	2022 –	Time to get					21 – additional	District/NRCS/	\$2,730,000	DEP/NRCS/
	management BMP	of animal waste	District,	Ag Land	2025	through planning,					Ag Planners to	Private Sector	per year	SCC/PDA
	implementation for	management	County Farm			design, and					provide	Farm Visits		
	livestock	systems (B)	Bureau, NRCS,	Cambria		construction;					technical			
			Private Sector	County Ag		outreach to					assistance and			
		1,500 new AUs of	Agriculture	Land –		smaller farms that					ag planning			
		animal waste	Farm Visits,	Chesapeake		likely need the					(Blair 6,			
		management	Precision	Bay Portion		assistance; match					Cambria 3,			
		systems (C)	Agriculture,			cash value for					Huntingdon 6,			
			Agway, PSU	Fulton County		small farms;					Fulton 6,)			
			Extension	Ag Land		readiness to								
		10,000 new AUs				plan/implement					11 – FTE	Private Sector/	\$1,540,000	DEP/NRCS
		of animal waste		Huntingdon		projects when					Design, Permit	District	per year	SCC/PDA
		management		County Ag		outreach efforts					construction			
		systems (F)		Land		yields willing					Services (Blair			
						landowners					3, Cambria 2,			
		10,000 new AUs									Huntingdon 3,			
		of animal waste				Lack of funding to					Fulton 3,)			
		management				cover engineering								
		systems (H)				design								

4.12	Urban Stormwater Management Non- Regulated Communities	Runoff Reduction Performance Standard – 47(F), 13(H) Acres treated Stormwater Treatment Performance Standard – 3(H)	Planning Commission, ISC, Municipalities	Blair County Developed areas Cambria County Developed areas – Chesapeake Bay Portion	2022- 2025	Coordination/ training for municipal staff, FieldDoc batch opportunity, non- MS4 engagement (what's in it for them?), difficulty obtaining past information (MS4s	Reporting FieldDoc platform					Assume \$5000 per municipality per year and 20 municipalities → \$100,000 per year	Municipal general fund or stormwater fees
		Standard – 3(H) acres treated Wet Ponds and Wetlands – 138(B), 90(C), 75(F) Acres treated Advanced Grey Infrastructure – 2,600(B) Acres treated Bioretention – 5 (B) acres treated Vegetated Open Channels – 492 (B) acres treated Infiltration Practices – 2 (B) acres treated Filtering Practices – 5 (B) Acres treated Dry Detention Ponds – 172 (B) Acres treated		Bay PortionFulton County Developed areasHuntingdon County Developed areas		information (MS4s typically have databases from 2003-present) Implement existing ordinances at local municipal level Catalogue existing BMPs that fit into this category and newly built ones				7 – Municipal Engineers (Blair 2, Cambria 1, Huntingdon 2, Fulton 2)	Municipalities, Planning Commission, COG	\$980,000 per year	TBD
		Dry Extended Detention Ponds – 39 (B) Acres treated											
4.13	MS4-related Chesapeake Bay Pollutant Reduction Plan Implementation	PRP Plan implementation by end of current permit term	Antis Township, Logan Township, Altoona City,	Blair County MS4 Municipalities	2022- 2023	Municipal capacity to implement plans (technical, financial)	MunicipalMunicipalityengineerpublic workdesign/permit,departmentconstructionreadiness	s contributing	Municipal budgets (taxes, stormwater fees, grants)	2 – Municipal Engineers	Municipalities, Planning Commission, COG	\$280,000 per year	TBD

		Green - actio	n has been compl	eted of is moving	g forward as	Potential	lion has encoun		es Available	in has not been	taken or has enco	Resource		
						Implementation			<u></u>					
Action		Performance		Geographic	Expected	Challenges or						Suggested		Suggested
#	Description	Target(s)	Partners	Location	Timeline	Recommendations	Technical	Source	Financial	Source	Technical	Source	Financial	Source
		Bioretention – 77	Allegheny			Develop a grant			stormwater		1 – FTE Clean	DEP	\$130,000 per	DEP
		acres treated	Township,			funding source just			fees do exist		Water		year	
			Duncansville			for MS4					Coordinator			
		Dry Ponds – 3	Borough, Blair			communities so					for Planning			
		acres treated	Township,			they are not					Commission			
		Churchen	Hollidaysburg			competing against								
		Stream	Borough,			all stakeholders.							Dia di Creat	TRD
		Restoration –	Frankstown			Need larger							Block Grant	TBD
		17,940 (part of total stream	Township, ISC, Planning			sources of funding.							just for MS4 communities	
		restoration goal)	Commission,			Land available to							not to	
		restoration goal	Engineering			implement							compete in	
			Consultants			projects.							other grant	
			consultants			projects.							programs with	
						Expanded							competing	
						flexibility to work							interests	
						outside of								
						designated areas								
.14	Conservation	Promote new	DCNR,	Blair County	2022 -	Landowner	Planting plan	Alliance for			11 – FTE	Private Sector/	\$1,430,000	DEP/NRCS/
	Landscaping/Turf	program and	Chesapeake	Developed	2025	education and	assistance	the Bay (in-			Municipal/	District/		SCC/PDA
	to Meadow	enable one large	Conservancy,	areas		acceptance		kind)			Environmental	Planning		
	Conversion	tract landowners'	municipalities								Technical	Commission		
		participation	CBF,	Cambria		Existing mowing					Assistance			
			Conservation	County		ordinances or					(Blair-3,			
		140 new acres of	District,	Developed		weed ordinances					Cambria-2,			
		Conservation	Planning	areas –		may be a challenge					Fulton-3,			
		Landscaping (B)	Commission,	Chesapeake		in some					Huntingdon-3)			
			ISC,	Bay Portion		communities							\$2,500 per	DCNR
		50 new acres of	Watershed										acre meadow	
		Conservation	Organizations	Fulton County									→ \$750,000	
		Landscaping (C)		Developed									budget for all	
				areas										
		60 new acres of		11										
		Conservation		Huntingdon										
		Landscaping (F)		County										
		50		Developed										
		50 new acres of		areas										
		Conservation Landscaping (H)												
							1	1 C C C C C C C C C C C C C C C C C C C		1	1	1	1	and the second

		Green - actio	n has been comp	pleted or is moving	ig forward as r	planned <u>Yellow</u> - ad	ction has encount	ered minor obsta	cles <u>Red</u> - acti	on has not been ta	aken or has enco	untered a serious	barrier		
						Potential	Resources <u>Available</u>				Resources <u>Needed</u>				
Action		Performance		Geographic	Expected	Implementation Challenges or						Suggested		Suggested	
#	Description	Target(s)	Partners	Location	Timeline	Recommendations	Technical	Source	Financial	Source	Technical	Source	Financial	Source	
4.15	Impervious surface reduction project	Identify a flood prone area that could be converted to a park or open space	Planning Commission, eligible municipalities	Blair County	2022- 2025	Lack of local interest, property purchase/donation	Mapping	Planning Commission	Available budget to be determined	Municipal PRP Implementatio n Budget	Design, permit, construction	Private sector	\$\$\$\$ - TBD	DCNR, FEMA BRIC	
		5 – acres (B)		DI 1	0								6520.000 x x x		
4.16	Continue dirt and gravel road program for each county Conservation District	 21 miles overall restored through past projects and future projects (B) 21 miles overall restored through past projects and future projects (C) 26 miles overall restored through past projects and future projects (F) 88 miles overall restored through past projects and future projects and future projects 	Blair County Conservation District Cambria County Conservation District Fulton County Conservation District Huntingdon County Conservation District	Blair Countywide Cambria Chesapeake Bay Portion Fulton Countywide Huntingdon Countywide	Ongoing	Continue D&G Road program funding Cambria – increase DGLVR education opportunities by 5% over 5 years Education of municipalities can be challenging, need more involvement from all muni's Expand Dirt and Gravel Road practices to include farm lanes	Education, technical assistance, project oversight Blair County Using NFWF Grant for private farm lane implementatio n	Conservation District, Center for Dirt & Gravel Road Studies, SCC NFWF Grant	 \$1.6 million since 1997 \$1.75 million since 1997 \$2.0 million since 1997 \$4.0 million since 1997 	Blair County Conservation District Cambria County Conservation District Fulton County Conservation District Huntingdon County Conservation District	4 – FTE Clean Water Coordinator for Conservation District	Conservation District	\$520,000 per year	DEP/PDA/ SCC	
4.17	Work with PennDOT and local municipalities to reduce frequency of mowing road ditches and along	(H) Educate local municipal leaders and PennDOT on the importance of keeping higher vegetation along	Local Municipalities, DEP and PennDOT	Blair Countywide Cambria Chesapeake Bay Portion	2023	PennDOT's and Municipal willingness to cut back on mowing programs. DEP Chesapeake Bay					4 – FTE Clean Water Coordinator for Conservation District	Conservation District	\$520,000 per year	DEP/PDA/ SCC	
	roadways	roadways to prevent erosion and increase nutrient uptake.		Fulton Countywide Huntingdon Countywide		Program will need to assist in the education of PennDOT.					4 – FTE Clean Water Coordinator for Planning Commission	Planning Commission	\$520,000 per year	DEP	

		<u>Green</u> - actio	on has been comp	pleted or is moving	g forward as	Potential	tion has encount		ered minor obstacles <u>Red</u> - action has not been t Resources Available			Resources Needed				
Action		Performance		Geographic	Expected	Implementation Challenges or		Resources	<u>Available</u>			Suggested	es <u>Needed</u>	Suggested		
#	Description	Target(s)	Partners	Location	Timeline	Recommendations	Technical	Source	Financial	Source	Technical	Source	Financial	Source		
4.18	Support current legislation for a fertilizer bill.	Legislation will support the implementation of: Urban Nutrient Management – 2,000 acres. (B) Urban Nutrient Management – 1,400 acres. (C) Urban Nutrient Management – 1,000 acres. (F) Urban Nutrient Management –	Conservation District, Planning Commission, ISC, Municipalities	Blair County Developed areas Cambria County Developed areas – Chesapeake Bay Portion Fulton County Developed areas Huntingdon County Developed areas	2022 Pass Fertilizer Legislatio n 2023 Begin Implemen tation	Fertilizer Legislation has failed to pass congress in the last two years.					4 – FTE Clean Water Coordinator for Planning Commission	Planning Commission	\$520,000 per year	DEP		
4.19	Private Funding & Grant Administration	2,000 acres. (H) Identify some private funding sources that may be able to supplement public funding sources/existing sources utilized for stakeholders, continue to work with partners to facilitate additional funding	Existing project implementer networks	Countywide	2022- 2023	Need to expand network, educational aspect of less common funders, logistics of utilizing unproven funding sources (or lesser known) Grant administration is a challenge due to limited staff and time-consuming nature of grant reporting and	Financial services	HRG (CAP coordinator)			4 – FTE Conservation District Grant Manager 4 – FTE Planning Commission Grant Manager	Conservation District Planning Commission	\$520,000	TBD		

			•	bleted or is moving		Potential	Resources <u>Available</u>			on has not been taken or has encountered a serious barrier Resources <u>Needed</u>					
ion ŧ	Description	Performance Target(s)	Partners	Geographic Location	Expected Timeline	Implementation Challenges or Recommendations	Technical	Source	Financial	Source	Technical	Suggested Source	Financial	Suggestec Source	
	-		cation, and ⁻	Training: Bla	air, Camb	ria, Fulton and	Huntingdor	County	1					1	
LA Inco exis qua dat Che Exp Che Mo	corporate sting water ality monitoring ta into esapeake Data olorer/ esapeake onitoring operative	Successful data input/acceptance by ALLARM program by end of 2021 Work with Foundation of PA Watersheds to establish their data into CMC Work with BCCD and Altoona Water Authority to report data Work with water and sewer authorities that monitor to include data in the Chesapeake Bay Model	ALLARM, Local watershed groups, Pa Foundation of Watersheds, BCCD, Altoona Water Authority, Ridge and Valley Stream Keepers, Stroud, Clearfield Creek Watershed Association, Juniata College	Blair Countywide Cambria Chesapeake Bay Portion Fulton Countywide Huntingdon Countywide	2022- 2023	Data precision, QAQC, opportunity to educate landowners about local stream health and what they can do about it Explore ways to present local data working with Juniata College	Data QAQC and training Data input Monitoring support	ALLARM Monitoring groups Conservation District (H)			 4 – FTE Clean Water Coordinator for Conservation District 4 – FTE Clean Water Coordinator for Planning Commission 	Conservation District Planning Commission	\$520,000 per year \$520,000 per year	DEP/PDA/ S	

		<u>Green</u> - actio	n has been comp	pleted or is moving	g torward as I		ction has encount			n has not been	taken or has encou				
						Potential	Resources <u>Available</u>				Resources <u>Needed</u>				
A ation		Performance		Coorrenhia	Europeter d	Implementation						Currented		Guaranted	
Action	Description		Deuteeue	Geographic	Expected	Challenges or	Technical	Courses	Financial	Courses	Technical	Suggested	Financial	Suggested	
#	Description	Target(s)	Partners	Location	Timeline	Recommendations	Technical	Source	Financial	Source	Technical	Source	Financial	Source	
5.1B	Initiate additional	Location identification,	ALLARM,	Blair	2023- 2024	Land access,					Sample Collection for	ALLARM	\$40,000 EQUIPMENT	Initiate additional	
	water quality monitoring sites	financial and	Keystone Water	Countywide	2024	expanded volunteer need,					new sites	volunteer	EQUIPIVIENT	water quality	
	that promote long-	volunteer budget	Resources	Cambria		equipment/materi					identified			monitoring	
	term trend	analysis, and	Center, Local	Chesapeake		als budget,					through CAP			sites that	
	evaluation at key	initial landowner	University,	Bay Portion		Consistent data					implementatio			promote long	
	locations	communication	Altoona Water	Bayrordon		collection, QAQC					n			term trend	
		by end of 2021	Authority	Fulton		continuation								evaluation at	
				Countywide										key locations	
		CAST-21		-,		Explore ways to								in Perry	
		acknowledgemen		Huntingdon		present local data								County	
		t of our data		Countywide –		working with									
				(Fort Run)		Juniata College									
		Map existing						K							
		monitoring													
		locations													
		Expand													
		monitoring based													
		on Corridors of													
		Opportunity area													
		monitoring gaps													
		Have DEP Re-													
		assess Spring Run													
		Fulton County													
5.2	Create new and	Develop new or	ALLARM,	Blair	Ongoing	Willing volunteers	Social media	County –			4 – FTE Clean	Conservation	\$520,000 per	DEP/PDA/ SCO	
	enhance existing	reestablish	Keystone	Countywide	0.0	and leaders to	shares	department to			Water	District	year	, ,	
	local watershed	existing	Water			establish and run		be determined			Coordinator				
	associations for	watershed	Resources	Cambria		watershed					for				
	short-term success	associations to	Center, Local	Chesapeake		organizations to be	Project	CAP			Conservation				
	and long-term	support with CAP	University, Tri-	Bay Portion		successful and	development	Coordinator			District				
	sustainability	implementation.	Run			support with	support	(HRG)							
		Watershed	Watershed	Fulton		implementation					4 – FTE Clean	Planning	\$520,000 per	DEP	
		organizations can	Association	Countywide							Water	Commission	year		
		support with	(Enhance),								Coordinator				
		outreach,	Little Juniata	Huntingdon							for Planning				
		engagement,	River	Countywide							Commission				
		new project	Watershed												
		identification and	Association, JK												
		implementation	TU Chapter		1		1	1				1	1	1	

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

Each county-based local area will use this template to identify:

1. Inputs – These are both existing and needed resources, public and private, to implement the identified priority initiative. These include both technical and financial resources, such as personnel, supplies, equipment and funding. 2. Process – what is each partner able to do where and by when. These are the action items listed under each priority initiative.

3. Outputs and outcomes – both short and long-term. These are the priority initiatives identified by each county. The performance targets are the intermediate indicators that will measure progress.

4. Implementation challenges – any potential issues or roadblocks to implementation that could impede outputs and outcomes.

Asterisk: Place an asterisk next to the action number(s) for action items that appear in both the County Planning and Progress Template and the Programmatic Recommendations Template.

For each Priority Initiative or Program Element: Use the fields, as defined below, to identify the inputs and the process that will be followed to achieve each priority initiative. This is the "who, what, where, when and how" of the plan:

Description = What. This may include programs that address prevention, 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).

GLOSSARY

- ACT 167 Plan. The Pennsylvania Stormwater Management Act of 1978, or Act 167, required that each county must prepare and adopt a watershed stormwater management plan for each watershed located in the county as designated by DEP, in consultation with the municipalities located within each watershed.
- Ag E & S Agricultural Erosion and Sedimentation Plan. Agricultural Erosion and Sedimentation plans document best management practices on crop and pasture fields to mitigate erosion and protect soil health. Any landowner that disturbs the soil (including no tillage) more than 5,000 square feet (~ 1/10 acre) must have a written Agricultural Erosion & Sediment Control Plan according to Pennsylvania State law, Chapter 102.

ALLARM – Alliance for Aquatic Resource Monitoring. ALLARM is a program of Dickinson College that enhances local action for the protection and restoration of waterways by empowering communities with scientific knowledge and tools. AMD - Acid Mine Drainage. Outflow of acidic water from metal mines or coal mines.

BMP – Best Management Practice. Best management practices describe a type of water pollution control. Using agricultural BMPs can help to prevent or minimize the effects of nonpoint source pollution. BRIC – Building Resilient and Infrastructure and Communities. The Building Resilient Infrastructure and Communities (BRIC) program is a new FEMA pre-disaster hazard mitigation program that replaces the existing Pre-Disaster Mitigation (PDM) program.

CAST - Chesapeake Assessment Scenario Tool. CAST is a web-based nitrogen, phosphorus and sediment load estimator tool that streamlines environmental planning.

CBF – Chesapeake Bay Foundation. The Chesapeake Bay Foundation is a non-profit organization devoted to the restoration and protection of the Chesapeake Bay in the United States.

- CCCD Centre County Conservation District. The Centre County Conservation District serves as the primary local source of assistance to all individuals and organizations who benefit from the county's natural resources that we collectively strive to sustain and improve.
- CCPC Centre County Planning Commission. The Centre County Planning Commission makes recommendations and decisions to maintain and enhance the high quality of life for all residents, in accordance with the Pennsylvania Municipalities Planning Code, and other laws and regulations of the Commonwealth of Pennsylvania and the County of Centre.
- CHMP County Hazard Mitigation Plan. The Centre County Hazard Mitigation Plan was developed for the purpose of providing a blueprint for reducing property damage and saving lives from the effects of future natural and human-caused disasters in Centre County; Qualifying the County for pre-disaster and post-disaster grant funding; Complying with state and federal legislative requirements related to local hazard mitigation planning; Demonstrating a firm local commitment to hazard mitigation principles; and Improving community resiliency following a disaster event.
- COO Corridors of Opportunity. Analysis completed comparing the County Comprehensive Plan goals to potential for co-benefits for local water quality. Since there are elevated nitrogen levels throughout Centre County, the analysis helped focus the planning team on particular HUC12 watersheds for the most global benefit. Once the HUC12 watersheds are identified, the next step is to identify regulatory compliant (or in progress) farms, their neighbors, and preserved farms for targeted outreach and specific BMP installation options.
- CRS Community Rating System. Community Rating System is a voluntary incentive program that recognizes and encourages community floodplain management activities that exceed the minimum National Flood Insurance Plan requirements.
- DCNR Department of Conservation and Natural Resources. DCNR is responsible for maintaining and preserving state parks and forests: providing information on the state's natural resources; and working with communities to benefit local recreation and natural areas.
- DEP Department of Environmental Protection. The Department of Environmental Protection's mission is to protect Pennsylvania's air, land and water from pollution and to provide for the health and safety of its citizens through a cleaner environment.
- EPA Environmental Protection Agency. The Environmental Protection Agency is a United States federal government agency whose mission is to protect human and environmental health.
- FEMA Federal Emergency Management Agency. FEMA supports citizens and emergency personnel to build, sustain, and improve the nation's capability to prepare for, protect against, respond to, recover from, and mitigate all hazards. FieldDoc – FieldDoc is a protected, online database that uses geographic information to generate baseline nutrient and sediment loading information and calculate load reductions for planned BMPs. GIS – Geographic Information System. GIS is a computer system that analyzes and displays geographically referenced information.
- HUC12 Watershed. A local sub-watershed level delineation that captures tributary systems draining into the larger Chesapeake Bay watershed.
- Legacy Sediment. Soil that was eroded from upland areas after the arrival of early settlers and over the centuries of intensive land uses, such as agriculture.
- MMP Manure Management Plan. Manure management plans document how a landowner plans to capture, store, treat, and utilize animal manures in an environmentally sustainable manner. Every landowner that has livestock or spreads manure on their property must have a written Manure Management Plan according to Pennsylvania State law, Chapter 91.
- MS4 Municipal Separate Storm Sewer System. A separate storm sewer system is a collection of structures, including retention basins, ditches, roadside inlets and underground pipes, designed to gather stormwater from built-up areas and discharge it, without treatment, into local streams and rivers.
- NFWF National Fish and Wildlife Foundation. NFWF works towards sustaining, restoring, and enhancing the nation's fish, wildlife, plants and habitats for current and future generations through innovative public and private partnerships, and by investing financial resources and intellectual capital into science-based programs designed to address conservation priorities and achieve measurable outcomes.
- NMP Act 38 Nutrient Management Plan. Nutrient management plans are required under Pennsylvania State law Act 38 which applies to operations with more than 2,000 pounds live animal weight per acre of pasture and crop fields. NRCS - Natural Resource Conservation Service. NRCS's programs help farmers reduce soil erosion, enhance water supplies, improve water guality, increase wildlife habitat, and reduce damages caused by floods and other natural disasters.
- PACD Pennsylvania Association of Conservation Districts. Provides support for Pennsylvania's conservation districts.
- PEMA Pennsylvania Emergency Management Agency. PEMA is tasked with the response to, preparedness for, recovery from, and the mitigation or prevention of disasters and other emergencies. PracticeKeeper. PracticeKeeper is a protected, online database Used for reporting conservation plans, BMPs, E&S plans, nutrient management plans, watershed plans, complaints, DEP inspection reports and data exports to DEP. QAPP – Quality Assurance Project Plan. A QA Project Plan documents the technical and quality aspects of a project, including project management, implementation and assessment. It specifies responsibilities, monitoring objectives, sampling design, sample
- collection methods, analytical methods, guality control, data management and data validation activities. It is required by EPA prior to any monitoring or data collection.
- QAQC Quality Assurance Quality Control. QA/QC is the combination of quality assurance, the process or set of processes used to measure and assure the quality of a product, and quality control, the process of ensuring products and services meet consumer expectations.
- 4R Nutrient Stewardship Precision Conservation. Right fertilizer source at the Right rate, at the Right time and in the Right place for optimal crop management.
- SRBC Susquehanna River Basin Commission. SRBC's mission is to enhance public welfare through comprehensive planning, water supply allocation, and management of the water resources of the Susquehanna River Basin.
- SWM Stormwater Management. Stormwater management is the effort to reduce runoff of rainwater or melted snow into streets, lawns and other sites and the improvement of water quality.
- SWP Source Water Protection. Source Water Protection is a planning process conducted by local water utilities, as well as regional or national government agencies, to protect drinking water sources from overuse and contamination.
- UAJA University Area Joint Authority. University Area Joint Authority (UAJA) is the municipal authority providing Wastewater Treatment, or Water Recycling services, to much of State College and the Centre Region.
- USGS United States Geological Survey. USGS provides science about the natural hazards that threaten lives and livelihoods; the water, energy, minerals, and other natural resources we rely on; the health of our ecosystems and environment; and the impacts of climate and land-use change.
- Water Quality Credit Offset Pilot. For nitrogen, and potentially other pollutants, BMPs are more effective and cheaper to build in the agricultural landscape than the developed landscape. The goal of this pilot is to further explore the 1-mile radius beyond the MS4 Pollutant Reduction Plan planning area, and larger radii, where ag BMPs can be sited for MS4 credit under certain conditions.
- WIP Watershed Implementation Plan. Watershed Implementation Plans (WIPs) are the roadmap for how the Bay jurisdictions (including Pennsylvania), in partnership with federal and local governments, will achieve the Chesapeake Bay TMDL allocations.
- WWTP Wastewater Treatment Plant. Wastewater treatment plants process contaminants from wastewater or sewage and convert it into an effluent that can be returned to the water cycle with acceptable impact on the environment or reused for various purposes.