

Phase 3 Watershed Implementation Plan (WIP) Planning and Progress Template – BLAIR, CAMBRIA, FULTON, AND HUNTINGDON COUNTY (SOUTHERN ALLEGHENIES)

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Action #	Description	Performance Target(s)	Partners	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources Available				Resources Needed				
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Priority Initiative 1: County Programmatic Initiatives: Blair, Cambria, Fulton, and Huntingdon															
1.1A	Implement County Comprehensive Plan policies and actions	<p>Ensure that growth activities address existing water quality impairments through stormwater BMP implementation already required by local ordinance</p> <p>Protect natural resources, protect wetlands through use of zoning ordinances</p> <p>Promote the inclusion of recreational opportunities counties have to offer, look to build local economies of tourism</p> <p>-Conserve 3,000 acres of forest (B) -Conserve 1,600 acres of forest (C) -Conserve 1,500 acres of forest (F) -Conserve 5,800 acres of forest (H)</p> <p>-Conserve 60 acres of wetlands (B) -Conserve 25 acres of wetlands (C) -Conserve 40 acres of wetlands (F) -Conserve 110 acres of wetlands (H)</p>	<p>Planning Commissions, growth boundary municipalities, Southern Alleghenies Bicycle and Pedestrian Plan, ACT 167 Plans, Huntingdon County Heritage Plan, Fulton County Heritage Plan, Convention and Visitors Bureau, Chamber of Commerce, Cambria County Conservation and Recreation Authority, Southern Alleghenies Greenways and Open Space Network Plan</p>	<p>Blair Countywide</p> <p>Cambria County – Chesapeake Bay Portion only</p> <p>Fulton Countywide</p> <p>Huntingdon Countywide</p>	ongoing	<p>Educating municipalities, Updating local plans and ordinances, Growth areas not consistent with Census Urbanized Areas</p> <p>Local governments willing to propose ordinances to protect economically and environmentally friendly landscapes</p>	Education, outreach	Planning Commissions				4 – FTE Clean Water Coordinator for Planning Commission	Planning Commission	<p>\$520,000 per year</p> <p>\$2,000 per acre of forest conserved through easement → Total \$23.8M</p> <p>\$2,000 per acre of wetland conserved through easement → Total \$470K</p>	<p>PA DCED Municipal Assistance Program</p> <p>Funding Options:</p> <p>PA DCNR Community Conservation Partnerships Program</p> <p>CFA Greenways, Trails, and Recreation Program</p>

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1.1B	<p>Advance local comprehensive planning efforts</p> <p>Implement existing Source Water Protection Plan</p>	<p>An annual review of the document and setting 1 goal, Partner with NRCS regarding source water protection and the 2018 Farm Bill</p> <p>Work with identified partners to support implementation of source water protection plans mirrored with CAP goals.</p> <p>Look to develop Source Water Protection Plans where feasible</p>	<p>Interested Municipalities and Townships, NRCS</p> <p>Altoona Water Authority, McConnellsburg Borough, Huntingdon Borough</p> <p>Fulton County Heritage Plan</p>	Multi Township and Municipality	2022-2025	Reinforcing the municipal role in coordinating with the water authorities to perform education and outreach.					4 – FTE Clean Water Coordinator for Planning Commission	Planning Commission	\$520,000 per year	DEP
												\$ TBD for new Source Water Protection Plans	USDA/FSA/NRWA Source Water Protection Program	

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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 to conserve buffers Conserve Riparian buffers where feasible through zoning ordinances	Municipalities, Conservation District, CBF, Pheasants Forever, National Trout Unlimited, Prince Gallitzin State Park, WPC, PA Foundation of Watersheds, Watershed Organizations, Fulton County ACT 167 Plan, Fulton County Heritage Plan, DCNR	Blair Countywide Cambria County – Chesapeake Bay Portion only Fulton Countywide Huntingdon Countywide	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. Buffer funding programs must include 5-10-year minimum maintenance plan, incentive money for landowners, along with volunteers to establish the buffer.	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 Buffer Funding Incentive Program	Planning Commission Conservation District TBD	\$520,000 per year \$520,000 per year Expand Buffer Bonus Program to provide \$10,000 per acre of buffer installed to include 5-year maintenance contract → \$2.05 M total	DEP DEP Funding Options: CFA Watershed Restoration and Protection Program PA Fish and Boat Commission CBF, Alliance for the Bay DCNR, Growing Greener, NFWF

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1.2	Implement County Hazard Mitigation Plan	<p>Improve flood prone areas with BMPs that also enhance water quality (B) (F) (H)</p> <p>Retrofit existing flood prone areas with new culverts, ditches, etc. (B) (F) (H)</p> <p>Report and verify projects that are implemented for Floodplain management, but can address nutrients and sediment (B) (F) (H)</p> <p>Identify all public lands with flood hazards, Create a land bank (B)</p> <p>Look to develop and adopt ordinance to protect floodplain management (F)</p>	County Planning Commission, municipalities, MPO's Unified Planning Work Program, Southern Alleghenies Comprehensive Plan, County Redevelopment Authorities	<p>Blair Countywide</p> <p>Cambria – plan under development for 2021</p> <p>Fulton Countywide</p> <p>Huntingdon Countywide</p>	2023-2025	<p>Funding, land for BMPs, funding for engineering feasibility studies</p> <p>Enforcement and compliance of stormwater ordinances</p> <p>Current Requirements by PEMA/FEMA are tough to receive funding – funding available only if hazard is identified by FEMA/PEMA and needs to be extremely project specific.</p>					4 – FTE Clean Water Coordinator for Planning Commission	<p>Planning Commission</p> <p>Hazard Mitigation Plan Implementation</p>	<p>\$520,000 per year</p> <p>\$2,000,000</p>	<p>DEP</p> <p>PEMA/FEMA</p>

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1.3*	Update/draft Act 167 Plans	Look to modify existing stormwater ordinances and ACT 167 Plans where feasible or create new model stormwater ordinance or ACT 167 plans that would require/incentivize additional protections for streams Encourage municipal officials to enact stormwater management ordinances consistent with ACT 167 and ACT 102 (F) (H) (C) Implement Fulton County Act 167 Plan	Municipal engineers, Municipalities, Southern Allegheny Comprehensive Plan, Juniata River Watershed Act 167, Bobs Creek and Dunning Creek, Beaverdam Branch 167	Blair Countywide Cambria Chesapeake Bay Portion Fulton Countywide Huntingdon Countywide	2022 – discuss interest to pursue and funding opportunities	Should local involvement exist, funding for Plan update Additional stormwater engineering resources at county level (C)	Institutional knowledge	Municipal engineers – assume 6 for well-rounded local background			Act 167 Plan Development 4 – FTE Clean Water Coordinator for Planning Commission	Consultant Planning Commission	\$350,000 per county → \$1.4 Million total \$520,000 per year	DEP DEP

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1.4	Utilize Existing TMDLs to leverage the need for water quality improvements	<p>Leverage TMDLs to help educate municipalities on the need for water quality improvements and potential stormwater ordinance updates</p> <p>Explore the potential feasibility of developing 319 WIPs or Alternative Restoration Plans for TMDL watersheds currently without plans</p> <p>2023 – municipal educational campaign</p>	<p>Beaverdam - Conservation District and City of Altoona (B)</p> <p>Chest Creek Watershed Association (C)</p> <p>Little Trough – Conservation District, NRCS (F)</p>	<p>Beaverdam Branch (B)</p> <p>Cambria County: Chest Creek and Clearfield Creek (C)</p> <p>Little Trough Creek – AG, tough to work with landowners (F)</p>	2023	<p>Financial and Technical assistance to develop 319 or ARP plans for TMDL watersheds</p> <p>Willingness of local volunteers to support in implementation of 319 plans.</p> <p>Lack of existing watershed organizations</p>					<p>3 – FTE Clean Water Coordinator for Planning Commission</p> <p>3 – FTE Clean Water Coordinator for Conservation District</p>	<p>Planning Commission</p> <p>Conservation District</p>	<p>\$390,000 per year</p> <p>\$390,000 per year</p> <p>\$450,000 to develop 3 watershed plans</p>	<p>DEP</p> <p>DEP</p> <p>DEP/EPA/ CFA WRPP</p>

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1.5	<p>Juniata River Watershed Management Plan</p> <p>Look to identify a rapid delisting watershed as part of the plan.</p>	<p>WPC applied for DCNR C2P2 grant to update the Juniata River Watershed Management Plan. CAP can help leverage funding for the Juniata River Watershed Management Plan.</p> <p>Work with the Chesapeake Conservancy to rapidly delist a watershed within the Juniata River Watershed Plan.</p>	Western Pennsylvania Conservancy, Chesapeake Conservancy	Juniata River Watershed (Blair, Fulton, Huntingdon, Juniata, Mifflin, Perry)	<p>2021 – Conservancy Exploring options</p> <p>2022 – outreach</p> <p>2023 implementation</p>	<p>Performance Target continued: Our goal is basically to update the existing plan with work that has been done since the original plan, do some more in-depth GIS analysis, and get public and municipal input into what they see are the issues in the watershed. I think the GIS analysis will be a big part of the process. We're planning on using the new 1-meter resolution data set, incorporating some of the buffer gap analysis work from Chesapeake Conservancy, etc.</p>			Huntingdon County AG BMPs \$442,305	Growing Greener	<p>3 – FTE Clean Water Coordinator for Planning Commission</p> <p>3 – FTE Clean Water Coordinator for Conservation District</p>	<p>Planning Commission</p> <p>Conservation District</p>	<p>\$390,000 per year</p> <p>\$390,000 per year</p> <p>WPC applied for \$37,785 with \$37,286 match</p> <p>Rapid Delisting Approach Budget \$2,000,000</p>	<p>DEP</p> <p>DEP</p> <p>DCNR</p> <p>Growing Greener/DCNR/NFWF</p>

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1.6*	<p>Implement County Farmland Preservation Program with farmland preservation program incentives enhancement</p> <p>Preservation of agriculture lands, boosting local agriculture economy, Purchase of Agricultural Easements (PACE)</p>	<p>Total preservation Blair County 56 farms and 8,400 acres –Goal 4 farms per year 16 total. 12-15 are on a backlog list -Conserve 1,500 acres of farmland</p> <p>Total preservation Cambria County 19 farms and 3,296 acres. Goal is to add 1-2 farmers each year, (8) total– about 150 acres per farm. -Conserve 690 acres of farmland</p> <p>Total preservation Fulton County 2 farms and 240 acres. Goal is to add 1-2 farms each year, (8) total farms (20 farms in waiting) -Conserve 1,500 acres of farmland</p> <p>Total preservation Huntingdon County 11 farms and 1,392 acres – Currently 1 farm every 2-3 years, 2 Farms total, could do 2 farms per year with additional funding (8) total -Conserve 2,000 acres of farmland</p>	<p>Agricultural Land Preservation, NRCS, Conservation District, County Farm Bureau, PSU Extension, Huntingdon County Heritage Plan, Fulton County Heritage Plan, SCC Ombudsman, Southern Alleghenies RC&D Council</p>	<p>Blair County Ag Land</p> <p>Cambria County Ag Land</p> <p>Fulton County Ag Land</p> <p>Huntingdon County Ag Land</p>	<p>2022-2023 – explore incentive opportunities</p> <p>Ongoing</p>	<p>Funding to support additional BMP implementation</p> <p>Technical assistance to coordinate preservation plans with funding and technical assistance</p> <p>Preserved farms are required to have an NRCS Conservation Plan, work with farmers to ensure Conservation Plan is reported in PracticeKeeper. Recommend making this a program requirement statewide.</p> <p>Sharing NRCS data is challenging, must comply with 1619 form.</p> <p>Lack of funding to preserve farms each year. Many farmers stop applying because of limited funding and competitive process. Additional staff time would be needed to significantly increase the number of farms per year and continue to inspect the farms annually.</p>	<p>Priority recommendations, easement revision recommendations, supplemental BMP funding research</p>	<p>Ag Land Preservation Board</p>			<p>4 – FTE Clean Water Coordinator for Conservation District</p> <p>4 – administrative assistant</p> <p>21 – Ag planners to assist with technical assistance</p> <p>1 – FTE for Ag Land Preservation Program Assistance</p>	<p>Conservation District</p> <p>Conservation District</p> <p>Conservation District</p> <p>Conservation District</p>	<p>\$520,000 per year</p> <p>\$300,000 per year</p> <p>\$2,730,000 per year</p> <p>\$130,000 per year</p> <p>Assume \$250,000 per farm → \$4,000,000 (B)</p> <p>Assume \$250,000 per farm → \$2,000,000 (C)</p> <p>Assume \$250,000 per farm → \$2,000,000 (F)</p> <p>Assume \$250,000 per farm → \$2,000,000 (H)</p>	<p>DEP</p> <p>DEP</p> <p>PDA/SCC/ NRCS/DEP</p> <p>DEP</p> <p>NFWF, GG. Increased Conservation District budget</p>

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1.7*	Establish funding/staff support to assist the Agricultural community 496 farms in Blair County (2017 Census) 557 farms in Cambria County (2017 Census) 545 farms in Fulton County (2017 Census) 714 farms in Huntingdon County (2017 Census)	Approximately 75 farms have their plans in Blair County, goal is to complete 200 by 2025. (B) Approximately 5 farms have their plans reported in Cambria County, goal is to complete/report 100 by 2025. (C) Approximately 100 farms have their plans in Fulton County, goal is to complete 200 by 2025. (F) Approximately 100 farms have their plans in Huntingdon County, goal is to complete 200 by 2025. (H)	Agricultural Land Preservation, NRCS, Conservation District, County Farm Bureau, PSU Extension, Private Ag Consultants	Blair County Ag Land Cambria County Ag Land Fulton County Ag Land Huntingdon County Ag Land	2022-2025	Limited compliance activities by DEP. Lack of Technical assistance to support the farming community. Private sector Ag plans are not required to be shared with District staff. All counties will work with ACT 38, Preserved farms and organic farms to report AG E&S and NRCS Conservation Plans. These operations are required to have them, but no requirement to report the plans. It is recommended state agencies make changes to ACT 38 and Persevered Farm programs to require PracticeKeeper reporting.	38 Inspections performed per year (B) 75 Inspections performed per year, NRCS 20 plans per year (F) 12 Inspections performed per year (H) - Could do 50 inspections per year with additional funding Field verification, troubleshooting, site visits and plan review	Blair County Chesapeake Bay Tech 1.5 FTE Fulton County Chesapeake Bay Tech (cut in half for phase 2) Huntingdon County Chesapeake Bay Tech District, USDA NRCS, Private Consultants, PSU Extension			21– additional Ag Planners to provide technical assistance and ag planning 11 – FTE Design, Engineers, permits 11 – FTE inspector construction Services 4 – FTE Clean Water Coordinator for Conservation District 0.5 FTE – Chesapeake Bay Technician to expand this position to a full-time position 4 – administrative assistant	District/NRCS/Private Sector Farm Visits Private Sector/Conservation District Private Sector/Conservation District Conservation District Huntingdon Conservation District Conservation District	\$2,730,000 per year \$1,540,000 per year \$1,155,000 per year \$520,000 per year \$65,000 per year \$300,000 per year	DEP/NRCS/SCC/PDA DEP/NRCS/SCC/PDA DEP/NRCS/SCC/PDA DEP DEP DEP

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1.8A*	Continue to address and support existing Acid Mine Drainage (AMD) treatment systems and streams impaired by AMD	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 area) 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			3 – FTE Clean Water Coordinator for Conservation District Maintenance on AMD site locations (B) Monitoring on treated AMD Streams (B) Maintenance on AMD site locations (C) Monitoring on treated AMD Streams (C) Maintenance on AMD site locations (H) Monitoring on treated AMD Streams (H)	Conservation District Conservation District Conservation District Conservation District Conservation District Conservation District	\$390,000 per year \$75,000 per year \$25,000 per year \$75,000 per year \$25,000 per year \$75,000 per year \$25,000 per year	DEP DEP Bureau of Mining, Abandoned Mine Reclamation Program, CFA

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1.8B*	Identify new funding to support the implementation of Acid Mine Drainage treatment systems	<p>Opportunities still exist to address AMD runoff into local streams. New passive and active treatment systems are needed to support water quality improvements. Work with DEP and other identified partners to find funding to support the implementation of new treatment systems</p> <p>Geographic Location (continued): Sugar Run– Needs AMD system, Kittaning Run – Water Authority Property, Bakerton is currently designed for use but is not being used by active mine site, Sankerton needs additional help. (B)</p>	PA DEP Bureau of Mining, Conservation District, watershed groups, TU, Altoona Water Authority, NRCS	<p>Dudley discharge, Hartman Run (H)</p> <p>Pantee Run – AMD impaired (needs watershed plan), Clearfield Creek, West Branch of Susq. could use additional work (C)</p>	2022-2025	<p>Need to support legislation regarding the RECLAIM Act to support funding of new treatment systems.</p> <p>Lack of technical assistance to support restoration efforts</p> <p>Landowner in Hartman Run would need to paid for land in order to install systems</p>					<p>3 – FTE Clean Water Coordinator for Conservation District</p> <p>Coordination of restoration</p>	<p>Conservation District</p> <p>PL 566 Program with NRCS</p>	<p>\$390,000 per year</p> <p>\$5,000,000 Total for restoration to Kittaning Run and Sugar Run (B)</p> <p>\$10,000,000 for Clearfield Creek, West Branch of Susquehanna and Pantee Run (C)</p> <p>\$10,000,000 for Dudley Discharge (H)</p> <p>\$300,000 for Hartman Run (H)</p>	<p>DEP</p> <p>DEP Bureau of Mining, Abandoned Mine Reclamation Program</p> <p>CFA</p>

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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 Mount Aloysius Develop a program with university students to support PracticeKeeper reporting for summer of 2022.	Juniata College, Saint Francis University, Penn State Altoona, Mount Aloysius	319 Priority Watershed Riparian properties Preserved farms Priority Corridor Watersheds	2022-2025	Continued undergraduate/graduate 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 students	Outreach boots on the ground	Penn State Altoona, Mount Aloysius (B), Juniata College (H) and Saint Francis University (C)				18 – Student Internships to Support CAP Implementation (5 – Blair, 3 – Cambria, 5 – Fulton, 5 – Huntingdon)	Penn State Altoona (B), Mount Aloysius (B), Juniata College (H) and Saint Francis University (C), or students who live locally and attend other universities	\$180,000 per year	TBD

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1.9B	Quantify Land/BMPs Managed by Penn State Altoona, Juniata College and Saint Francis University	Work with Penn State Altoona, Mount Aloysius, Juniata College and Saint Francis University to ensure that water quality improvements that they manage are captured in CAST/FieldDoc	Penn State Altoona (B), Mount Aloysius, Juniata College (H) and Saint Francis University (C)	Penn State Altoona owned Lands in Blair County Mount Aloysius 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)			3 – FTE Clean Water Coordinator for Planning Commission 3 – FTE Clean Water Coordinator for Conservation District 18 – Student Internships to Support CAP Implementation (5 – Blair, 3 – Cambria, 5 – Fulton, 5 – Huntingdon)	Planning Commission Conservation District Penn State Altoona (B), Mount Aloysius (B), Juniata College (H) and Saint Francis University (C), or students who live locally and attend other universities	\$390,000 per year \$390,000 per year \$180,000 per year	DEP DEP TBD

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1.10A	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 Open Space Plans	Develop regional messages and audience; execute plan and distribute messaging through staff and partners	Multi-partner, Southern Allegheny Planning Commission as lead entity building upon environmental aspects?	Blair Countywide Cambria Chesapeake Bay Portion Fulton Countywide Huntingdon Countywide	2022 – plan development 2023 – plan implementation	Simplifying the resources that are available, focusing on farmers and other landowners					Website development and continued maintenance	SAPDC	\$60,000 per year	Administrative budget tag-along to project-related grant award
											4 – FTE Marketing and Outreach Coordinator	Planning Commission	\$520,000 per year	NFWF
											4 – FTE Clean Water Coordinator for Planning Commission	Planning Commission	\$520,000 per year	DEP

Phase 3 Watershed Implementation Plan (WIP) Planning and Progress Template – BLAIR, CAMBRIA, FULTON, AND HUNTINGDON COUNTY (SOUTHERN ALLEGHENIES)

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1.10B	Agricultural Communication Strategy	<p>Develop a plan to complete one on one farm visits outside the regulatory framework.</p> <p>Develop a communication plan to engage integrators.</p> <p>Partner with pesticide meetings and other AG meetings to provide information.</p> <p>Utilize Farm Bureau Newsletter for announcements</p>	<p>CD, County Farm Bureau, Integrators, Ag Land Preservation, PSU Extension, NRCS, Ombudsman</p>	<p>Blair Countywide</p> <p>Cambria Chesapeake Bay Portion</p> <p>Fulton Countywide</p> <p>Huntingdon Countywide</p>	2022-2025	<p>One on one farm outreach is the best way to communicate with farmers in addition to reporting practices.</p> <p>Funding to support the technical assistance required to complete one on one farm outreach</p> <p>Outreach to integrators is a challenge due to the number of integrators and multiple country boundaries they serve. It is recommended DEP/PDA/SCC communicate with integrators on a frequent basis to reduce mixed messages.</p> <p>Districts can be viewed as regulatory agencies can be tough for some farmers to be willing to work with the District</p>					<p>21 – additional Ag Planners to provide technical assistance and ag planning</p> <p>4 – FTE Marketing and Outreach Coordinator</p> <p>4 – FTE Clean Water Coordinator for Conservation District</p>	<p>District/NRCS/Private Sector Farm Visits</p> <p>Conservation District</p> <p>Conservation District</p>	<p>\$2,730,000 per year</p> <p>\$520,000 per year</p> <p>\$520,000 per year</p> <p>See 1.10A for website costs.</p> <p>Costs for meeting attendance and administration is covered through other funding requests.</p>	<p>DEP/NRCS/SCC/PDA</p> <p>NFWF</p> <p>DEP</p>

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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	Antis Township, Logan Township, Altoona City, Allegheny Township, Duncansville Borough, Blair Township, Hollidaysburg Borough, Frankstown Township, ISC, Planning Commission	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			\$644,428 (grant)	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.	Conservation District, Planning Commission, Watershed organizations, Trout Unlimited.	Blair, Cambria, Fulton and Huntingdon County HQ and EV 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 EV watersheds. Ensure dedicated and predictable funding for Tier 3&4 counties is available.				ARC Funding	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

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Priority Initiative 2: Reporting and Tracking – Blair, Cambria, Fulton and Huntingdon														
2.1*	Existing BMP cataloguing (quantity and location) for select BMPs, expanding on general recommendations provided in QAPP BMPs = forest buffers, urban forest buffers, grass buffers, urban grass buffers, wet ponds and wetlands, fencing, cover crop and tillage management	Expand use of existing buffer layer with urban hydrology layer R&D into distinguishing ag, pasture, and turf covers from grassed buffers Manual digitizing where leaf-off <1 ft resolution imagery is available Back check with staff field views where required Add data to Practice Keeper (PK) or another batch upload option	Lead - Chesapeake Conservancy Stakeholder peer review – PSU Altoona, Juniata College, Saint Francis University, USGS, County Farm Bureau, PDA, EPA, NRCS County Conservation Districts	Blair Countywide Cambria Chesapeake Bay Portion Fulton Countywide Huntingdon Countywide	2022 – cataloguing 2023 – Practice Keeper batch upload processing and field views	EPA 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 provide support to farmers on planning and BMP installs, reduce the amount of interruption of government entities to compliant farm operations Farmers’ willingness to share data with PK due to right to know	Precision Conservation Tools General methodology outline BMP field backcheck	Chesapeake Conservancy QAPP Varies by BMP	N/A N/A	N/A	Further GIS and data processing/method refinement 21 – additional Ag Planners to provide technical assistance and ag planning (Blair 6, Cambria 3, Huntingdon 6, Fulton 6,) 18 – Student Internships to Support CAP Implementation (Blair 5, Cambria 3, Huntingdon 5, Fulton 5)	Chesapeake Conservancy District/NRCS/Private Sector Farm Visits Local University Student or local student attending nearby university etc.	\$46,000 (2022 only) per county →\$184,000 \$2,730,000 per year \$180,000 per year	EPA/NRCS DEP/NRCS/EPA/PDA/ SCC TBD

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2.2*	Identify future ag/urban project opportunities using automated means	BMP opportunity analysis – ag conservation, land retirement, alternative crop, forest conservation, stream restoration Back check with staff field views Batch upload to FieldDoc to calculate credit opportunity	Lead - Chesapeake Conservancy Stakeholder peer review – PSU Altoona, Juniata College, Saint Francis University, USGS, County Farm Bureau, PDA, EPA, NRCS, MS4 Municipalities in Blair County County Conservation Districts	Blair Countywide Cambria Chesapeake Bay Portion Fulton Countywide Huntingdon Countywide	2022 – cataloguing 2023 – batch upload processing and field views 2024 – 2025 – implementation focus	Different data set scales/precision Willingness of landowners to implement BMPs	Precision Conservation Tools Batch upload processing BMP field backcheck	Chesapeake Conservancy DEP/SRBC Varies by BMP	N/A N/A	N/A	Further GIS and data processing/method refinement 18 – Student Internships to Support CAP Implementation (Blair 5, Cambria 3, Huntingdon 5, Fulton 5)	Chesapeake Conservancy Local University Student or local student attending nearby university etc.	\$46,000 (2022 only) per county →\$184,000 \$180,000 per year	EPA/NRCS TBD
2.3*	Develop a local system to capture data collection on urban structural and non-structural practices	Add urban stormwater BMPs to FieldDoc or reported to DEP so that as land use data sets are updated, there are accompanying BMPs Work with municipalities that are implementing stormwater management ordinances for less than an acre stormwater management to report practices	Municipal engineers, Chesapeake Conservancy, Municipalities, Planning Commission,	Blair Countywide Cambria Chesapeake Bay Portion Fulton Countywide Huntingdon Countywide	2022	Currently municipalities are not collecting BMP data because it is not required in non-MS4 communities. Must incentivize communities to report, no existing system in place Lack of technical assistance to report and verify practices to DEP	Reporting platform	FieldDoc			Training 18 – Student Internships to Support CAP Implementation (Blair 5, Cambria 3, Huntingdon 5, Fulton 5) 4 – municipal planner	DEP Local University Student or local student attending nearby university etc. Planning Commission, SAPDC, Municipality	N/A \$180,000 per year \$520,000 per year	DEP TBD DEP

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2.4*	Implement a documentation program for commercial and homeowner nutrient applications in developed lands Support current legislation for fertilizer bill.	Support fertilizer legislation – where legislation requires reporting 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 – 2,000 acres (H)	PSU Extension	Blair Countywide Cambria Chesapeake Bay Portion Fulton Countywide Huntingdon Countywide	2022	Education of responsible parties, receiving timely information, training on reporting system. Partners will need direction from State on what’s expected and any reporting system that’s developed. Counties aren’t equipped with technology or field experience to manage this initiative. Fertilizer Legislation has failed to pass the legislature in the last two years.	TBD based on fertilizer legislation if passed	TBD based on fertilizer legislation if passed	TBD based on fertilizer legislation if passed	TBD based on fertilizer legislation if passed	4 – FTE Clean Water Coordinator for Planning Commission	Planning Commission	\$520,000 per year Urban Nutrient Management \$10 per acre → \$64,000	DEP DEP/PDA/DCNR/NFWF/CBF/ Chesapeake Conservancy

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2.5*	Improve Agricultural BMP reporting utilizing PracticeKeeper, Capital RC&D Transect Survey, PSU Survey, Manure Transport Reporting and Remote Sensing	<p>Increase reporting of agriculture plans into PracticeKeeper, provide incentives/requirements to private sector Ag planners to report.</p> <p>Work with Capital RC&D to improve current transect survey routes to be more inclusive of cover crop locations, improve data analysis so that all acres are appropriately credited</p> <p>Work with PSU to produce better response rates to the PSU survey for each county</p> <p>Work with PDA/DEP/SCC to improve manure transport reporting</p>	DEP, Conservation District, NRCS, PDA, NRCS, County Farm Bureau, Capital RC&D, Chesapeake Conservancy, PSU Survey, Manure Brokers,	<p>Blair Countywide</p> <p>Cambria Chesapeake Bay Portion</p> <p>Fulton Countywide</p> <p>Huntingdon Countywide</p>	2022-2025	<p>Private sector ag planners do not have access to PracticeKeeper. Ag planners do not have time to report into PK.</p> <p>Current Capital RC&D routes are not all inclusive and could be improved.</p> <p>Current response rates are low and miss a large demographic of County farmers.</p> <p>Manure brokers are not required to report data annually. Data is not inclusive. Consider a regulatory change.</p> <p>Farmers' willingness to share data with PK due to right to know</p>					18 – Student Internships to Support CAP Implementation (Blair - 5, Cambria - 3, Huntingdon - 5, Fulton - 5)	Local University Student or local student attending nearby university etc.	\$180,000 per year	TBD

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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 (C) 5,000 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 milk urea nitrogen (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.	Research	Penn State Extension	N/A	N/A	Reporting protocol	Chesapeake Bay Program, Penn State Extension, Dairy co-ops	N/A	N/A

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2.7*	Water, Sewer and Wastewater Treatment Plants reporting and upgrades	<p>Work with Water, Sewer and Waste Treatment facilities to accurately document plant upgrades.</p> <p>Upcoming plant upgrades: Brown and Union Township, Saltillo (H)</p> <p>Altoona Digester (B)</p> <p>Tipton/Plane and Nine/Mill Run, Petersburg Borough (H)</p> <p>McConnellsburg composts biosolids (F)</p>	<p>DEP</p> <p>Brown and Union Township, Saltillo (H),</p> <p>Altoona Digester (B), Tipton/Plane and Nine/Mill Run, Petersburg Borough</p> <p>McConnellsburg Borough</p>	CSO and Waste Treatment Facilities	Ongoing	<p>Need DEP to work with waste facilities to accurately document plant upgrades. Need reductions to be accurately captured in CAST.</p> <p>Work with DEP to determine how composting helps to reduce nitrogen and phosphorus. Accurately document the results and report in CAST.</p>					<p>4 – FTE Clean Water Coordinator for Planning Commission</p> <p>4 – FTE Clean Water Coordinator for Conservation District</p>	<p>Planning Commission</p> <p>Conservation District</p>	<p>\$520,000 per year</p> <p>\$520,000 per year</p>	<p>DEP</p> <p>DEP</p>

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Priority Initiative 3B: Achieve New Pollutant Reductions Blair County														
3.1B*	Implement Plum Creek and Sugar Run Watershed Assessment, Restoration and Preservation Plan	Implement federal, state and local programs that support the establishment of riparian buffers in the headwaters. Look to support the implementation of streambank fencing, no-till planting, and cover crops. Implement appropriate AMD restoration practices to address AMD issues.	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 \$500,000 to support continued implementation of restoration initiatives	DEP DEP/NFWF/DCNR/NRCS/PDA/SCC
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 Implementation 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 trigger drastically increases project budget.	Trout Unlimited	Grant	Partial	District	TU Technical Assistance 1 – FTE Clean Water Coordinator for Conservation District	Grant is expiring need to identify new funding Conservation District	\$50,000 in design \$130,000 per year	DEP and some match with District DEP

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3.3Ba	Implement Blair County National Fish and Wildlife Foundation – Innovative Nutrient and Sediment Reductions (INSR)	Expand partners to accelerate the installation of eight stream bank restoration and riparian buffer projects in the MS4 regulated regions 8,885 ft stream restoration 4-acre riparian buffer planting	Blair County Conservation District, PA Intergovernmental Stormwater Committee (ISC), ISC Engineers, John Kennedy Local Trout Unlimited, Tri-Run Watershed Association, Little Juniata Watershed association, PA DCNR, Maple Hollow Townhouses Homeowners association, Master Gardeners	Beaverdam, Frankstown Watershed is primary focus, Little Juniata Watershed is a secondary priority MS4 Regulated Area	2021-2023	ISC has no capacity to scale up. Identifying additional partners to support with implementation. Expand geographic scale of implementation outside of defined urbanized area. Outreach to non-MS4 communities Limited budget for ISC, limited budget prevents outreach to non-MS4 communities	Engineers	Intergovernmental Stormwater Committee	\$41,000	DCNR Multi-Functional Buffer Grant	2 – Municipal Engineers	Municipalities, Planning Commission, COG	\$280,000 per year	TBD
							Staff Time to support efforts	Conservation District	\$78,000	District Budget	3 – FTE Design, Engineer, Permit	Private Sector/BCCD	\$420,000	DEP/NRCS/SCC/PDA
							Volunteer Buffer Plantings, and other work	St. Francis University, Little Juniata River Association, Trout Unlimited – Pa	\$200,500	Growing Greener for Green Infrastructure	2 – stream biologists 6 – additional Ag Planners to provide technical assistance and ag planning	USGS/PAFBC/ etc. District/NRCS/Private Sector Farm Visits	\$280,000 per year \$780,000 per year	DEP/DCNR/ EPA DEP/NRCS/SCC/PDA
								Cold Water Heritage Program, Tri Run Watershed Association, DCNR,	\$146,000	DCED Grant	3 – FTE inspector construction Services	Private Sector/BCCD	\$315,000 per year	DEP/NRCS/SCC/PDA
									\$4,000	CBF 10 Million Trees				
									Free Trees					

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3.3Bb	<p>Implement Blair County National Fish and Wildlife Foundation – Innovative Nutrient and Sediment Reductions (INSR)</p> <p>Strengthen the partnership with Blair County Municipalities by scaling up Dirt and Gravel/Low Volume Road Program</p>	<p>Develop cost share program to fund Green Infrastructure and riparian buffer practices</p> <p>Target stormwater practice implementation upstream of D&G Roads</p> <p>Offer cost shared program to reduce sediment pollution from unpaved roads and culvert outlets in the AG sector – 10 projects total</p> <p>Implement Stormwater Practices in Tyrone Township and Borough</p>	Blair County Conservation District, Blair County Municipalities, NRCS, Tyrone Township and Tyrone Borough, Blair County Farm Bureau	Non-MS4 communities of Beaverdam Watershed	2021 - 2023	Will work with NRCS staff to identify farms needing road/culvert repair; however, NRCS staff is limited and working beyond their scope is difficult		Blair County’s Dirt and Gravel Low Volume Road Program	\$93,000	Blair County’s Dirt and Gravel Low Volume Road Program	2 – Municipal Engineers	Municipalities, Planning Commission, COG	\$280,000 per year	TBD
							Volunteer Time	TU Chapter, Little Juniata River Association, Tri-Run Watershed Association, Alliance for the Chesapeake Bay, County Farm Bureau	\$80,000	Municipal Public Works	3 – FTE Design, Engineer, Permit	Private Sector/ BCCD	\$420,000	DEP/NRCS/ SCC/PDA
									\$10,000	Riparian Buffer Funds Trout Unlimited	2 – stream biologists	USGS/PAFBC/ etc.	\$280,000 per year	DEP/DCNR/ EPA
											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
											3 – FTE construction inspector services	Private Sector/ BCCD	\$315,000 per year	DEP/NRCS/ SCC/PDA

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3.3Bc	Implement Blair County National Fish and Wildlife Foundation – Innovative Nutrient and Sediment Reductions (INSR)	Accelerate the adoption of regenerative agriculture practices on farms in Blair County and establish a Regional Soil Health Hub in partnership with Pa Soil Health Coalition Conduct 5 farmers workshops Utilize multi-county grazing group to further promote the use of prescribed grazing	Blair County Conservation District, Blair County Municipalities, NRCS, PA Soil Health Coalition, Project Grass, PAGLC, PA No-Till Alliance,	Beaverdam, Frankstown Watershed is primary focus, Little Juniata Watershed is a secondary priority	2021 - 2023	NRCS Staff is limited The principal gap that limits our capacity to scale up is the lack of funding and farmer understanding of the need to adopt regenerative ag related practices	Plan Writers	Nutrient Management Program and DEP’s Chesapeake Bay Program		Nutrient Management Program and DEP’s Chesapeake Bay Program	2 – Municipal Engineers 3 – FTE Design, Engineer, Permit 2 – stream biologists 6 – additional Ag Planners to provide technical assistance and ag planning 3 – FTE inspector construction Services	Municipalities, Planning Commission, COG Private Sector/ BCCD USGS/PAFBC/ etc. District/NRCS/Private Sector Farm Visits Private Sector/ BCCD	\$280,000 per year \$420,000 \$280,000 per year \$780,000 per year \$315,000 per year	TBD DEP/NRCS/ SCC/PDA DEP/DCNR/ EPA DEP/NRCS/ SCC/PDA DEP/NRCS/ SCC/PDA
3.4B	Exploring opportunities to develop a plan for Spencer Run	Need to conduct a watershed assessment for Spencer Run. Funding already established Already conducted a flood assessment	JK Chapter of TU, Army Core of Engineers	Spencer Run Watershed	2022 complete watershed assessment	Lack of staffing with quick grant turnaround. Plan development can take time.	Technical assistance	Conservation District		DCED Keystone Communities	6 – additional Ag Planners to provide technical assistance and ag planning	District/NRCS/Private Sector Farm Visits	\$780,000 per year \$150,000 to develop a plan for Spencer Run	DEP/NRCS/ SCC/PDA EPA/DEP/ NFWF/DCNR/PA FBC

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3.5B	Altoona Water Authority Regional Digester	Altoona Water Authority is currently in the process of building a new regional digester 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 digester,	Altoona, PA Glen White Run Watershed – Biosolid Application	2022	There is potential the digester will be processing manure generated outside of the Chesapeake Bay Watershed. These nutrients will be contributed to Blair County loads.	Day to day operation	Altoona Water Authority	\$36 million	Altoona Water Authority	1 – FTE Clean Water Coordinator for Conservation District	Conservation District	\$130,000 per year	DEP

Phase 3 Watershed Implementation Plan (WIP) Planning and Progress Template – BLAIR, CAMBRIA, FULTON, AND HUNTINGDON COUNTY (SOUTHERN ALLEGHENIES)

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Priority Initiative 3C: Achieve New Pollutant Reductions Cambria County														
3.1Ca	Implement the 2020 Cambria County Conservation District Strategic Plan	Increase the number of stream restoration BMPS installed, submit grants once a year to implement AMD and AG impaired waters (2 miles of AMD stream by 2025, Glendale Lake streambank stabilization) Conduct 10 comprehensive farm evaluations for BMPs (assume 60 acres per farm – 600 acres of new potential planning), Funding by 2025 Assist 5 farmers per year with soil conservation and nutrient management plans (portion of 10,000 acres of new soil conservation and water quality plan goal)	CCPC, Municipalities, CCCD, DEP BAMR, PDA, DEP, Cambria County Redevelopment Authority, DCNR, NRCS, Prince Gallitzin State Park, SCC, PACD, EPCAMR, WPC, Americorps, Bens Creek Canoe Club, PAFBC, PSU Extension, Clearfield Creek Watershed Association, Chest Creek Watershed Association	Cambria Countywide	Ongoing	Lack of funding and technical assistance to support restoration initiatives, landowner issues					1 – Municipal Engineers 2 – FTE Design, Engineer, Permits 1 – stream biologists 3 – additional Ag Planners to provide technical assistance and ag planning 2 – FTE inspector construction Services 1 – FTE Clean Water Coordinator for Planning Commission 1 – FTE Clean Water Coordinator for Conservation District	Municipalities, Planning Commission, COG Private Sector/ CCCD USGS/PAFBC/ etc. District/NRCS/Private Sector Farm Visits Private Sector/ CCCD Planning Commission Conservation District	\$140,000 per year \$280,000 \$140,000 per year \$390,000 per year \$280,000 per year \$130,000 per year \$130,000 per year	TBD DEP/NRCS/ SCC/PDA DEP/DCNR/ EPA DEP/NRCS/ SCC/PDA DEP/NRCS/ SCC/PDA DEP DEP

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3.1Cb	Implement the 2020 Cambria County Conservation District Strategic Plan	<p>Develop MOUs with municipalities on E&S, meet with 12 municipalities per year</p> <p>Meet with 15 municipalities in 3 years to promote stormwater management planning</p> <p>Meet with county agencies to promote stormwater planning and ACT 167 requirements</p> <p>Have at least 1 demonstration project by 2022 to showcase stormwater BMPs</p> <p>Achieve addition of 2 staff to district employees by 2025</p> <p>Increase 1 FTE for program support, environmental education, and accounting</p>	CCPC, Municipalities, CCCD, DEP, BAMR, PDA, DEP, Cambria County Redevelopment Authority, DCNR, NRCS, Prince Gallitzin State Park, SCC, PACD, WPCAMR, WPC, Americorps, Bens Creek Canoe Club, PAFBC, PSU Extension	Cambria Countywide	Ongoing	Lack of funding and technical assistance to support restoration initiatives					<p>1 – Municipal Engineers</p> <p>2 – FTE Design, Engineer, Permits</p> <p>1 – stream biologists</p> <p>3 – additional Ag Planners to provide technical assistance and ag planning</p> <p>2 – FTE inspector construction Services</p> <p>1 – FTE Clean Water Coordinator for Planning Commission</p> <p>1 – FTE Clean Water Coordinator for Conservation District</p>	<p>Municipalities, Planning Commission, COG</p> <p>Private Sector/ CCCD</p> <p>USGS/PAFBC/ etc.</p> <p>District/NRCS/Private Sector Farm Visits</p> <p>Private Sector/ CCCD</p> <p>Planning Commission</p> <p>Conservation District</p>	<p>\$140,000 per year</p> <p>\$280,000</p> <p>\$140,000 per year</p> <p>\$390,000 per year</p> <p>\$280,000 per year</p> <p>\$130,000 per year</p> <p>\$130,000 per year</p>	<p>TBD</p> <p>DEP/NRCS/ SCC/PDA</p> <p>DEP/DCNR/ EPA</p> <p>DEP/NRCS/ SCC/PDA</p> <p>DEP/NRCS/ SCC/PDA</p> <p>DEP</p> <p>DEP</p>

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3.2C*	Implement Brubaker Run Cold Water Conservation Plan	Address remaining AMD and AML issues through restoration efforts Culvert replacement projects Opportunities for stream restoration near Hastings Work with farmers to educate them on erosion and sediment control Continue to fund Dirt and Gravel Road projects	CCPC, Municipalities, CCCD, PAFBC Work with municipal officials, business owners, residents and PennDOT for stormwater BMPs	Brubaker Run Watershed	Ongoing	Lack of technical assistance to support with implementation of restoration initiatives Lack of funding to support restoration efforts Need to secure AMD/AML 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 \$500,000 to support implementation of Plan Other funding is identified throughout initiatives	DEP DEP DEP/DCNR/NFWF/ PAFBC

Priority Initiative 3F: Achieve New Pollutant Reductions Fulton County

3.1F	Develop a watershed implementation 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.	FCDD, Center for Watershed Protection	Big Cove Creek Upper portion of Big Cove Creek is primary focus for impaired restoration efforts	2022 Plan Development 2023 Secure funding 2024 begin implementation	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	Implementation Support	Conservation District	\$1,000,000 to support implementation of the plan	DEP 319 Program
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3.2H	Implement Standing Stone Creek Coldwater Conservation Plan	Plan is currently under development and set to be finished in September of 2021 This plan is an opportunity to help implement CAP Initiatives	HCCD	Standing Stone Creek Watershed	9/2021 completion Ongoing implementation	Lack of technical assistance to support with implementation of restoration initiatives Lack of funding to support restoration efforts					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 \$500,000 to support implementation of the plan	DEP DEP DEP/DCNR/NFWF/PAFBC
3.3H	Juniata University Urban Tree Initiative	Juniata College has established a “Tree Care Plan” along with a tree advisory committee to further implementation of trees on campus. Partner with Huntingdon Borough Tree Commission	Juniata College, Tree Advisory Committee, Huntingdon Borough Tree Commission and service	Juniata College	Ongoing	Partner with Huntingdon Borough tree commission and borough to implement projects. If the tree commission has more funding, they could implement more projects.	Volunteer services	Juniata College			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 \$50,000 to support Huntingdon Borough Tree Commission	DEP DEP TBD

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3.4H*	Explore options for developing a watershed restoration plan at Great Trough Creek, Dudley Discharge, Fort Run, Warriors Run	A desire to implement plans at Great Trough Creek, Dudley Discharge, Fort Run, Warriors Run. DEP developing a plan on Great Trough Creek to address the Dudley Run Discharge.	SRBC, Chesapeake Conservancy, Conservation District	Great Trough Creek, Dudley Discharge, Fort Run, Warriors Run, Sadler Creek	2024-2025	Funds are available to address Great Trough Creek; however, funds are in general services and there is a legal battle transferring these funds to Bureau of Mining. This must be accomplished before a plan can be developed.					1 – FTE Clean Water Coordinator for Planning Commission	Planning Commission	\$130,000 per year	DEP
											1 – FTE Clean Water Coordinator for Conservation District	Conservation District	\$130,000 per year	DEP
													\$150,000 per plan → \$600,000 total for four plans	DEP/DCNR/NFWF/PAFBC

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3.5H *	Shoups Run 319 WIP	<p>BAMR is currently in the design phases of an abandoned mine land reclamation project in the Great Trough Creek watershed approximately 4 miles south of Dudley.</p> <p>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</p> <p>Plans to construct a wastewater treatment facility for the remaining populated areas of Dudley, Coalmont Borough, and Carbon Township have been completed, funding has been secured, and construction has begun.</p>	BAMR, Conservation District	Great Trough Creek and Dudley Discharge, Shoups Run	Ongoing	DEP must be successful with the implantation of the Dudley Discharge AMD site.					1 – FTE Clean Water Coordinator for Conservation District	Conservation District	\$130,000 per year	DEP
													\$500,000 for plan implementation	DEP/DCNR/NFWF/PAFBC

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Priority Initiative 4: Achieve New Pollutant Reductions (Blair, Cambria, Fulton, Huntingdon)														
4.1	Rapid Delisting Catchment Strategy through the Precision Conservation Partnership	Rapid delisting will identify priority areas and BMPs	Chesapeake Conservancy and partners	<p>Plum Creek and Tributary to Piney Creek (B)</p> <p>Duclos Run – Chest Creek watershed (ag impaired due to sediment, former potato production, now corn/bean with cover crop and no-till) (C)</p> <p>Cove Run and Big Cove Creek (F)</p> <p>Warriors Mark Run and North Branch of the Little Aughwick Creek (H)</p>	2021-2024	Reinvigorating landowner interest, design/permit/construction schedules,	<p>Program management and GIS</p> <p>Landowner outreach</p>	<p>Chesapeake Conservancy</p> <p>Partnership stakeholders</p>	\$500,000	NFWF Grant	11 – additional FTE municipal/environmental planners	Chesapeake Conservancy, CBF, etc.	<p>\$1,430,000 per year</p> <p>\$100,000 dollars to complete rapid delisting program management per year per county → total cost \$2,000,000</p> <p>Other funding identified in below initiatives</p>	<p>DEP/NRCS/SCC/PDA/DCNR/NFWF/Growing Greener/ EPA</p> <p>EPA/DEP</p>

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4.2(B)*	Help farmers and operators to be in compliance with state and federal requirements: Conservation and Nutrient Management Plans	<p>Soil and Water Quality Conservation Plans (AG E&S) 25,000 new acres</p> <p>Nutrient Management (Manure Management) 25,000 new acres of Core N and 15,000 new acres of Core P</p> <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</p>	4R Alliance, BCCD, Blair County Farm Bureau, NRCS, Private Sector Agriculture Farm Visits, Precision Agriculture, Agway, PSU Extension	Blair County Ag Land	2022-2025	<p>Lack of DEP inspections.</p> <p>Reporting and verification of AG Plans, NRCS plans expire and do not get reverified, private plans are never entered.</p> <p>Lack of Technical assistance to support agriculture planning and implementation, one on one farm outreach is best way to capture existing plans.</p> <p>Act 38 and Preserved Farms not required to enter plans in PK, Recommendations to require programs to enter plans into PK</p> <p>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 well.</p>					<p>6 – additional Ag Planners to work with farmers to develop required plans</p> <p>Private Sector Ag Planners – farmers more willing to work with them opposed to district</p>	<p>District/NRCS/Private Sector Farm Visits</p> <p>TBD based on resources listed above</p> <p>Conservation Plans</p> <p>Core N and Core P</p>	<p>\$780,000 per year</p> <p>\$15 per acre for a total cost of \$375,000</p> <p>\$15 per acre for a total cost of \$225,000</p>	<p>DEP/NRCS/SCC/PDA</p> <p>DEP/SCC/PDA/NRCS</p> <p>DEP/SCC/PDA/NRCS</p>

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4.2(C)*	See 4.2B	<p>Soil and Water Quality Conservation Plans (AG E&S) 10,000 new acres</p> <p>Nutrient Management (Manure Management) 15,000 new acres of Core N and 5,500 new acres of Core P</p> <p>Work with ACT 38 operators (1 currently), Preserved Farms (20), and certified organics to document plans already required</p>	4R Alliance, 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	<p>See 4.2 B</p> <p>Rented ground changing hands every year, hard to keep plans up to date each year.</p> <p>PA One Stop Needs Revised to include the most modern farming practices. Some farmers are using this program to develop their own plans.</p>	50 inspections completed per year for last 3-years (150 total)	CCCD, no more inspections are planned moving forward			3 – additional Ag Planners to work with farmers to develop required plans.	District/NRCS/Private Sector Farm Visits	\$390,000 per year	DEP/NRCS/SCC/PDA
												Conservation Plans	\$15 per acre for a total cost of \$150,000	DEP/SCC/PDA/NRCS
												Core N and Core P	\$15 per acre for a total cost of \$82,500	DEP/SCC/PDA/NRCS

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4.2(F)*	See 4.2B	<p>Soil and Water Quality Conservation Plans (AG E&S) 15,500 new acres</p> <p>Nutrient Management (Manure Management) 24,500 new acres of Core N and 18,500 new acres of Core P</p> <p>Work with ACT 38 operators (12), Preserved Farms (240 acres), and certified organics to document plans already required</p>	4R Alliance, FCCD, Fulton County Farm Bureau, NRCS, Private Sector Agriculture Farm Visits, PSU Extension	Fulton County Ag Land	2022-2025	<p>See 4.2B</p> <p>Better information sharing with NRCS.</p> <p>Chesapeake Bay Inspections are the best way to capture and document Plan Compliance</p> <p>Prefer additional District staff over a consultant to conduct one on one farm outreach</p>	75 inspections performed per year; 17 plans developed per year	FCCD				6 – additional Ag Planners to work with farmers to develop required plans.	District/NRCS/Private Sector Farm Visits	\$780,000 per year	DEP/NRCS/SCC/PDA
							NRCS can develop and update about 20 plans per years.	NRCS				Conservation Plans	\$15 per acre for a total cost of \$232,500	DEP/SCC/PDA/NRCS	
												Core N and Core P	\$15 per acre for a total cost of \$277,500	DEP/SCC/PDA/NRCS	

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4.2(H)*	See 4.2B	<p>Soil and Water Quality Conservation Plans (AG E&S) 30,000 new acres</p> <p>Nutrient Management (Manure Management) 25,000 new acres of Core N and 15,000 new acres of Core P</p> <p>Work with ACT 38 operators (24), Preserved Farms (11), and certified organics to document plans already required</p>	4R Alliance, HCCD, Huntingdon County Farm Bureau, NRCS, Private Sector Agriculture Farm Visits, R&R Engineering,	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				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
												Cost share support for equipment (Spreaders)	Private Consultant/District/ NRCS	\$250,000 cost share budget (maintenance, staff support and cost)	DEP
												0.5 FTE – Chesapeake Bay Technician to expand this position to a full-time position	Conservation District	\$65,000 per year	DEP
													Conservation Plans	\$15 per acre for a total cost of \$450,000	DEP/SCC/PDA/NRCS
													Core N and Core P	\$15 per acre for a total cost of \$225,000	DEP/SCC/PDA/NRCS

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4.3	Advanced Nutrient Management (4R) Practice Education and Implementation	<p>Transition manure management plans to nutrient management plans and incentivize implementation</p> <p>Increase existing 4R practice (N Rate, N Timing and N Placement by 5,000 acres per year) (B)</p> <p>(N/P Rate, N/P Timing and N/P Placement by 1,000 acres per year) (C)</p> <p>(N Rate by 500 acres, N Timing by 6,000 acres, N Placement by 6,000 acres and P Placement/rate/timing by 4,000 acres) (F)</p> <p>(N Rate by 4,000, P Rate by 8,000, N/P, Timing and Placement by 8,000 acres per year) (H)</p>	4R Alliance, CD, County Farm Bureau, NRCS, Private Sector Agriculture Farm Visits, Precision Agriculture, Agway, PSU Extension	<p>Blair County Ag Land</p> <p>Cambria County AG Land – Chesapeake Bay Watershed</p> <p>Fulton County Ag Land</p> <p>Huntingdon County AG Land</p>	2022-2025	<p>Landowner interest, BMP verification (annual)</p> <p>Lack of Technical assistance to support agriculture planning and implementation</p> <p>Additional funding to support soil testing. Soil testing is key to meeting the recommendations of supplemental BMPs.</p> <p>Machine dependent for most farming operations</p> <p>Cost of fertilizer is self-regulating farmers to use less fertilizer; therefore, lower rates</p>	Educational support	CBF/4R Alliance			<p>21 – additional Ag Planners to provide technical assistance and ag planning (Blair - 6, Cambria - 3, Huntingdon - 6, Fulton - 6)</p> <p>Cost share support for equipment – precision AG Spreader (C)</p> <p>Cost share support for equipment (Spreaders) (H)</p>	<p>District/NRCS/Private Sector Farm Visits</p> <p>Cambria Conservation District</p> <p>Private Consultant/District/ NRCS</p>	<p>\$2,730,000 per year</p> <p>\$250,000 cost share budget</p> <p>\$250,000 cost share budget (maintenance, staff support and cost)</p> <p>\$10 per acre of advanced nutrient management planning per type → total cost for all is \$895,000</p>	<p>DEP/NRCS/SCC/PDA</p> <p>DEP</p> <p>DEP</p> <p>DEP/PDA/SCC/NRCS/ 4R Alliance</p>

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4.4*	Implement Practice to improve soil health and sustainability (Tillage Management and Cover Crops)	Determine feasibility of having a county cost share program to enhance adoption of the annual practice, pay incentive per acre Implement tillage management and cover crops on an annual rate of 19,000 acres High Residue, 12,000 acres Conservation Tillage, 5,200 acres Low Residue, 8,500 acres cover crops, and 12,500 acres cover crops with fall nutrients (B) 8,000 acres HR 6,500 acres CT, 3,000 acres LR, 6,300 acres of CC and 1,000 acres CC with fall nutrients (C) 10,000 acres HR, 7,700 acres CT, 5,000 acres LR 7,700 acres CC and 8,700 acres CC with fall nutrients (F) 20,000 acres HR, 10,000 acres CT, 4,000 acres LR, 8,000 acres CC and 10,000 acres CC with fall nutrients (H)	CD, County Farm Bureaus, NRCS, Private Sector Agriculture Farm Visits, Precision Agriculture, Agway, PSU Extension	Blair County Ag Land Cambria County AG Land – Chesapeake Bay Watershed Fulton County Ag Land Huntingdon County AG Land	2022-2023	Current verification methods do not accurately capture implemented amounts - work with Capital RC&D and DEP to improve transect survey routes and data collection methodology. Lack of technical assistance and farm planners to work with farmers to transition to High Residue Tillage. Farmers are harvesting cover crops for animals, need accurate crediting for commodity cover crops. Existing Cover Crop Programs have strict plant by date that does not work with changing weather patterns and wetter years. Organic farmers are using tillage to manage weeds and vertical tillage is becoming more popular among farmers, younger generation is “trying” tillage for experience. Potato farmers use tillage as part of their operational plans	Transect survey 2 – No till drills for rent 1 – No till drill for rent	Capital RC&D Cambria County District Fulton County District	EQIP – pays \$50 per acre for single species, \$60 per acre for 3 species	NRCS	21 – additional Ag Planners to provide technical assistance and ag planning (B-6, C-3, F-6, H-6,) Cost share support for equipment – no-till drill (F) Cost share support for no-till drill (H) County Conservation District – staff to administer the program	District/NRCS/Private Sector Farm Visits Fulton Conservation District Private Consultant/District/ NRCS Cover Crop Incentive Program	\$2,730,000 per year \$250,000 cost share budget (maintenance, staff support and storage) \$250,000 cost share budget \$90 per acre traditional per year → \$2.745M for a 5-year total of \$13.725M (incentive payment, capital RC&D) \$50 per acre fall nutrients per year → \$1.61M for 5-year total of \$8.05M	DEP/NRCS/SCC/PDA DEP DEP PDA, SCC, Growing Greener, PACD DEP

Phase 3 Watershed Implementation Plan (WIP) Planning and Progress Template – BLAIR, CAMBRIA, FULTON, AND HUNTINGDON COUNTY (SOUTHERN ALLEGHENIES)

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4.5B*	Implement more pasture management BMPs	<p>Prescribed grazing – 80 acres</p> <p>Forest buffers on fenced pasture corridor – 35 acres</p> <p>Grass buffers on fenced pasture corridor – 35 acres</p> <p>Land retirement to AG Open Space – 300 acres</p>	BCCD, Blair County Farm Bureau, NRCS, Private Sector Agriculture Farm Visits, Precision Agriculture, Agway, PSU Extension	Blair County Ag landowners who raise horses, dairy, beef, and other pasture grazing animals	2022-2025	<p>Landowner education, BMP funding for non-buffer work, plan updates, data gathering</p> <p>Lack of Technical assistance to support agriculture planning and implementation</p>	Landowner education	NRCS	CBF grant	ARC Funding	<p>6 – additional Ag Planners</p> <p>3 – additional FTE environmental technician</p>	<p>District/NRCS/Private Sector Farm Visits</p> <p>Chesapeake Conservancy, CBF, WPC, etc.</p>	<p>\$780,000 per year</p> <p>\$390,000 per year</p> <p>Prescribed grazing \$540 per acre → \$43,200 total</p> <p>FB Buffer with Exclusion \$10,500 per acre → \$367,500 total</p> <p>GB Buffer with Exclusion \$2,750 per acre → \$96,250 total</p> <p>Land Retirement \$500 per acre → \$150K total</p>	<p>DEP/NRCS/SCC/PDA</p> <p>DEP/NRCS/SCC/PDA/DCNR/NFWF</p> <p>DEP/NRCS/SCC/PDA/DCNR/NFWF/Growing Greener/ EPA</p> <p>DEP/NRCS/SCC/PDA/DCNR/NFWF/Growing Greener/ EPA</p> <p>DEP/NRCS/SCC/PDA/DCNR/NFWF/Growing Greener/ EPA</p> <p>DEP/PDA/SCC/NRCS</p>

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4.5C*	Implement more pasture management BMPs	<p>Prescribed grazing – 125 acres</p> <p>Pasture Alternative Watering – 250 acres</p> <p>Forest buffers on fenced pasture corridor – 10 acres</p> <p>Grass buffers on fenced pasture corridor – 12 acres</p> <p>Land retirement to AG Open Space – 200 acres</p>	CCCD, Cambria County Farm Bureau, NRCS, Private Sector Agriculture Farm Visits, Growmark Farm Service, PSU Extension	Cambria County Ag landowners who raise horses, dairy, beef, and other pasture grazing animals – Chesapeake Bay Portion	2022-2025	<p>See 4.5B</p> <p>Old NRCS plans need to be updated to comply with prescribed grazing definition – difficult to get landowner buy-in – fund alternative watering and fencing; most pastures are streamside</p>	Landowner education	NRCS	CBF grant	ARC Funding	<p>3 – additional Ag Planners</p> <p>2 – additional FTE environmental technician</p>	<p>District/NRCS/Private Sector Farm Visits</p> <p>Chesapeake Conservancy, CBF, WPC, etc.</p>	<p>\$390,000 per year</p> <p>\$260,000 per year</p> <p>Prescribed grazing \$540 per acre → \$67,500 total</p> <p>FB Buffer with Excl. \$10,500 per acre → \$105,000 total</p> <p>GB Buffer with Excl. \$2,750 per acre → \$33,000 total</p> <p>Land Retirement \$500 per acre → \$200K total</p> <p>Pasture Alternative Watering \$500 per acre → \$125,000 total</p>	<p>DEP/NRCS/SCC/PDA</p> <p>DEP/NRCS/SCC/PDA/DCNR/NFWF</p> <p>DEP/NRCS/SCC/PDA/DCNR/NFWF/Growing Greener</p> <p>DEP/NRCS/SCC/PDA/DCNR/NFWF/Growing Greener/ EPA</p> <p>DEP/PDA/SCC/NRCS</p> <p>DEP/PDA/SCC/NRCS</p>

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4.5F*	Implement more pasture management BMPs	<p>Prescribed grazing – 100 acres</p> <p>Forest buffers on fenced pasture corridor – 5 acres</p> <p>Grass buffers on fenced pasture corridor – 5 acres</p> <p>Land retirement to Ag Open Space – 70 acres</p>	FCCD, Fulton County Farm Bureau, NRCS, Private Sector Agriculture Farm Visits, PSU Extension	Fulton County Ag landowners who raise horses, dairy, beef, and other pasture grazing animals	2022-2025	<p>See 4.5B</p> <p>Increasing construction costs are resulting in canceled NRCS contracts</p>	Landowner education	NRCS	CBF grant	ARC Funding	<p>6 – additional Ag Planners</p> <p>3 – additional FTE environmental technician</p>	<p>District/NRCS/Private Sector Farm Visits</p> <p>Chesapeake Conservancy, CBF, WPC, etc.</p>	<p>\$780,000 per year</p> <p>\$390,000 per year</p> <p>Prescribed grazing \$540 per acre → \$54,000 total</p> <p>FB Buffer with Exclusion \$10,500 per acre → \$52,500 total</p> <p>GB Buffer with Exclusion \$2,750 per acre → \$13,750 total</p> <p>Land Retirement \$500 per acre → \$35K total</p>	<p>DEP/NRCS/SCC/PDA</p> <p>DEP/NRCS/SCC/PDA/DCNR/NFWF</p> <p>DEP/NRCS/SCC/PDA/DCNR/NFWF/Growing Greener/ EPA</p> <p>DEP/NRCS/SCC/PDA/DCNR/NFWF/Growing Greener/ EPA</p> <p>DEP/NRCS/SCC/PDA/DCNR/NFWF/Growing Greener/ EPA</p> <p>DEP/PDA/SCC/NRCS</p>

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4.5H*	Implement more pasture management BMPs	<p>Prescribed grazing – 4,600 acres</p> <p>Forest buffers on fenced pasture corridor – 25 acres</p> <p>Grass buffers on fenced pasture corridor – 25 acres</p>	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	<p>6 – additional Ag Planners</p> <p>3 – additional FTE environmental technician</p>	<p>District/NRCS/Private Sector Farm Visits</p> <p>Chesapeake Conservancy, CBF, WPC, etc.</p>	<p>\$780,000 per year</p> <p>\$390,000 per year</p> <p>Prescribed grazing \$540 per acre → \$2,484,000 total</p> <p>FB Buffer with Exclusion \$10,500 per acre → \$262,500 total</p> <p>GB Buffer with Exclusion \$2,750 per acre → \$68,750 total</p>	<p>DEP/NRCS/SCC/PDA</p> <p>DEP/NRCS/SCC/PDA/DCNR/NFWF</p> <p>DEP/NRCS/SCC/PDA/DCNR/NFWF/Growing Greener/EPA</p> <p>DEP/NRCS/SCC/PDA/DCNR/NFWF/Growing Greener/EPA</p> <p>DEP/NRCS/SCC/PDA/DCNR/NFWF/Growing Greener/EPA</p>

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							Technical	Source	Financial	Source	Technical	Suggested Source	Financial	Suggested Source
4.6(B)*	Riparian buffer and re-forestation BMPs	<p>350 riparian forest buffer acres – 50 new buffer acres; Need to recredit additional acres lost since 2010</p> <p>85 riparian grass buffer acres –60 new buffer acres; Need to recredit additional acres lost since 2010</p> <p>15 acres – urban forest buffer</p> <p>2 acres – urban tree canopy</p> <p>40 acres – urban forest planting</p>	BCCD, Blair County Farm Bureau, NRCS, Private Sector Agriculture Farm Visits, Precision Agriculture, Agway, PSU Extension	Blair County Ag Land	2022-2025	<p>Landowner partnerships, landowner education, volunteer acceptance of buffer plantings, buffer maintenance guide for farmers, routine site visits to confirm buffers are thriving, invasive species removal during establishment</p> <p>Lack of technical assistance to conduct landowner outreach, implementation, and maintenance of proposed projects</p>	Materials	BCCD (in-kind, annual tree sale efforts), CBF	Budget available to be determined	CBF, NFWF, NFWS, NRCS - CREP	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
							Mapping	Chesapeake Conservancy	Utilize PFBC incentive program to pay landowners for fishing access		3 – additional FTE environmental technician	Chesapeake Conservancy, CBF, WPC, etc.	\$390,000 per year	DEP/NRCS/SCC/PDA/ DCNR
													Forest Buffer \$10,000 per acre → \$650,000 total	DCNR, NFWF, PACD, TreeVitalize, DEP, Coldwater Heritage Partnership Implementation Grants, Landscape Scale Restoration (LSR) Grant Program – US Forest Service, Pennsylvania Habitat Stewardship Program, Alliance for the Bay, CBF, Chesapeake Conservancy, U. S. Forest Service Annual Landscape Scale Restoration Grant Program
													Grass Buffer \$2,500 per acre → \$150,000 total	
													Forest Planting \$10,000 per acre → \$400,000 total	
													Tree Canopy \$5,000 per acre → \$10,000 total	

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							Technical	Source	Financial	Source	Technical	Suggested Source	Financial	Suggested Source
4.6(C)*	Riparian buffer and re-forestation BMPs	<p>174 riparian forest buffer acres – 10 new buffer acres; Need to recredit additional acres lost since 2010</p> <p>113 riparian grass buffer acres –100 new buffer acres; Need to recredit additional acres lost since 2010</p> <p>10 acres – urban forest buffer</p> <p>5 acres – urban tree canopy</p> <p>2 acres – urban forest planting</p> <p>56 acres – agriculture tree planting</p> <p>50 acres – forest harvesting practices</p>	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	<p>See 4.6B</p> <p>Funding program must include a 5-10-year maintenance program to establish buffers along with incentive program on the order of \$4K per acre payment to landowner or to offset cost of hiring a contractor to maintain the buffer.</p>	Materials	CCCD (in-kind, annual tree sale efforts), CBF	Budget available to be determined	CBF, NFWF, NFWS, NRCS - CREP	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
							Mapping	Chesapeake Conservancy			2 – additional FTE environmental technician	Chesapeake Conservancy, CBF, WPC, etc.	\$260,000 per year	DEP/NRCS/SCC/PDA/ DCNR
													Forest Buffer \$10,000 per acre → \$200,000 total	DCNR, NFWF, PACD, TreeVitalize, DEP, Coldwater Heritage
													Grass Buffer \$2,500 per acre → \$250,000 total	Partnership Implementation Grants, Landscape Scale Restoration (LSR) Grant Program – US Forest Service, Pennsylvania Habitat Stewardship Program,
													Tree/Forest Planting \$10,000 per acre → \$580,000 total	Alliance for the Bay, CBF, Chesapeake Conservancy, U. S. Forest Service Annual Landscape Scale Restoration Grant Program
													Tree Canopy \$5,000 per acre → \$25,000 total	
													Forest Harvesting \$60 per acre → \$3,000 total	

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4.6(F)*	Riparian buffer and re-forestation BMPs	<p>305 riparian forest buffer acres – 30 new buffer acres; Need to recredit additional acres lost since 2010</p> <p>45 riparian grass buffer acres –20 new buffer acres; Need to recredit additional acres lost since 2010</p> <p>23 acres – Agriculture Tree Planting</p> <p>40 acres – urban forest buffer</p> <p>10 acres – urban tree canopy</p> <p>1 acre – Urban Forest Planting</p> <p>150 acres – Forest Harvesting Practices</p>	FCCD, Fulton County Farm Bureau, NRCS, Private Sector Agriculture Farm Visits, PSU Extension	Fulton County Ag Land	2022-2025	<p>See 4.6B</p> <p>Buffer plantings are becoming more expensive, must increase dollars per acre provided.</p>	Materials	FCCD (in-kind, annual tree sale efforts), CBF	Budget available to be determined	CBF, NFWF, NFWS, NRCS - CREP	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
							Mapping	Chesapeake Conservancy			3 – additional FTE environmental technician	Chesapeake Conservancy, CBF, WPC, etc.	\$390,000 per year	DEP/NRCS/SCC/PDA/ DCNR
													Forest Buffer \$10,000 per acre → \$700,000 total	DCNR, NFWF, PACD, TreeVitalize, DEP, Coldwater Heritage Partnership Implementation Grants, Landscape Scale Restoration (LSR) Grant Program – US Forest Service, Pennsylvania Habitat Stewardship Program, Alliance for the Bay, CBF, Chesapeake Conservancy, U. S. Forest Service Annual Landscape Scale Restoration Grant Program
													Grass Buffer \$2,500 per acre → \$50,000 total	
													Tree/Forest Planting \$10,000 per acre → \$240,000 total	
													Tree Canopy \$5,000 per acre → \$50,000 total	
													Forest Harvesting \$60 per acre → \$9,000 total	

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4.6(H)*	Riparian buffer and re-forestation BMPs	<p>414 riparian forest buffer acres – 10 new buffer acres; Need to recredit additional acres lost since 2010</p> <p>65 riparian grass buffer acres –30 new buffer acres; Need to recredit additional acres lost since 2010</p> <p>24 acres – Agriculture Tree Planting</p> <p>40 acres – urban forest buffer</p> <p>30 acres – urban tree canopy</p> <p>10 acres – Urban Forest Planting</p> <p>850 acres – Forest Harvesting Practices</p>	HCCD, Huntingdon County Farm Bureau, NRCS, Private Sector Agriculture Farm Visits, R&R Engineering, Huntingdon Borough Tree Commission, Juniata River Blueprint Community, Juniata College, Mount Union Borough	Huntingdon County Ag Land	2022-2025	See 4.6B	Materials	HCCD (in-kind, annual tree sale efforts), CBF	Budget available to be determined	CBF, NFWF, NFWS, NRCS - CREP	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
							Mapping	Chesapeake Conservancy			3 – additional FTE environmental technician	Chesapeake Conservancy, CBF, WPC, etc.	\$390,000 per year	DEP/NRCS/SCC/PDA/ DCNR
													Forest Buffer \$10,000 per acre → \$500,000 total	DCNR, NFWF, PACD, TreeVitalize, DEP, Coldwater Heritage Partnership Implementation Grants, Landscape Scale Restoration (LSR) Grant Program – US Forest Service, Pennsylvania Habitat Stewardship Program, Alliance for the Bay, CBF, Chesapeake Conservancy, U. S. Forest Service Annual Landscape Scale Restoration Grant Program
													Grass Buffer \$2,500 per acre → \$75,000 total	
													Tree/Forest Planting \$10,000 per acre → \$340,000 total	
													Tree Canopy \$5,000 per acre → \$150,000 total	
													Forest Harvesting \$60 per acre → \$51,000 total	

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4.7	Wetland restoration implementation on marginal production agricultural land	<p>26 acres of Wetland Restoration (B)</p> <p>28 acres of Wetland Restoration (C)</p> <p>18 acres of Wetland Restoration (F)</p> <p>14 acres of Wetland Restoration (H)</p>	Conservation Districts, County Farm Bureaus, NRCS, Private Sector Agriculture Farm Visits, Precision Agriculture, Agway, PSU Extension, Watershed Organizations	<p>Blair County Ag Land</p> <p>Cambria County Ag Land – Chesapeake Bay Portion</p> <p>Fulton County Ag Land</p> <p>Huntingdon County Ag Land</p>	2022 –2025	<p>Willing landowner; appropriate siting, design, and construction for successful restoration result</p> <p>Lack of technical assistance for landowner outreach and agriculture planning to identify potential site locations</p> <p>Lead time it takes to secure projects can take years</p>	Landowner outreach	Conservation District and NRCS staff person			<p>11 – additional FTE environmental technician</p> <p>7 – stream/wetland biologist</p>	<p>Chesapeake Conservancy, CBF, WPC, etc.</p> <p>USGS/PAFBC/District/etc.</p>	<p>\$1,430,000 per year</p> <p>\$980,000</p> <p>Wetland Restoration \$30,000 per acre → \$2.58M</p>	<p>DEP/DCNR</p> <p>DEP/DCNR/PAFBC/USGS</p> <p>DEP/DCNR/USDA Conservation Reserve Program (CRP) or NRCS Wetlands Reserve Program (WRP)</p>

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4.8	Stream Restoration (Urban and Agriculture)	<p>31,240 (~6 mile) Linear feet Urban Stream Restoration, 3,000 Linear feet Ag Stream Restoration (B)</p> <p>8,400 Linear feet Urban Stream Restoration, 4,000 Linear feet Ag Stream Restoration (C)</p> <p>3,000 Linear feet Urban Stream Restoration, 10,000 Linear feet Ag Stream Restoration (F)</p> <p>3,000 Linear feet Urban Stream Restoration, 4,000 Linear feet Ag Stream Restoration (H)</p>	CBF, Chesapeake Conservancy, TU National, PFBC Stream Restoration Team, NRCS, Conservation District, Planning Commission, Municipalities, ISC, Watershed Organizations, Trust for Tomorrow, WPC, TU JK Chapter	<p>Blair Countywide and Priority HUCs</p> <p>Cambria Countywide and Priority HUCs – Chesapeake Bay Portion</p> <p>Fulton Countywide and Priority HUCs</p> <p>Huntingdon Countywide and Priority HUCs</p>	2022 – 2025	Design/permit/construction cycle seems to work in two-year increments, there is an assumption that eroded/degraded streams exist based upon 403(d) listing – should that not be the case in the field, adjust quantitative goal down and ensure buffers are in place	Design/GP-1 permit assistance	Trout Unlimited, Municipalities			Design, permit, construction services	Private sector, USFWS, TU	Urban -Assume \$900/LF - \$41.1 M	Growing Greener, NFWF, DEP, DCNR, PAFBC, USGS
						Lack of funding to cover engineering design					7 – Municipal Engineers (Blair - 2, Cambria - 1, Fulton - 2, Huntingdon - 2)	Municipalities, Planning Commission, COG	\$980,000 per year	DEP/NRCS/ SCC/PDA
											11 – FTE Design, Engineer, Permit (Blair - 3, Cambria - 2, Fulton - 3, Huntingdon - 3)	Private Sector/ District/NRCS	\$1,430,000 per year	DEP/DCNR/ PAFBC/USGS
											7 – stream biologists (Blair - 2, Cambria - 1, Fulton - 2, Huntingdon - 2)	USGS/PAFBC/ District/etc.	\$980,000 per year	DEP/DCNR/ PAFBC/USGS

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4.9	Implement more barnyard runoff control/loafing lot management	<p>30 acres of barnyard runoff controls (16 acres reverified), Work with GIS department to identify barnyards within 150 feet of stream for prioritizing (B)</p> <p>5 acres of barnyard runoff controls (2 acres reverified), 100 acres of agricultural drainage management (C)</p> <p>10 acres of barnyard runoff controls (2 acres reverified), 29 acres of agricultural drainage management (F)</p> <p>40 acres of barnyard runoff controls (10 acres reverified), 30 acres of agricultural drainage management (H)</p>	Conservation District, County Farm Bureau, NRCS, Private Sector Agriculture Farm Visits, Precision Agriculture, Agway, PSU Extension	<p>Blair County Ag Land</p> <p>Cambria County Ag Land – Chesapeake Bay Portion</p> <p>Fulton County Ag Land</p> <p>Huntingdon County Ag Land</p>	2022 –2025	<p>Landowner buy-in and project development/funding</p> <p>Lack of Technical assistance to support agriculture planning and implementation</p> <p>Lack of funding to cover engineering design</p> <p>Increasing construction costs are cancelling NRCS contracts</p>	Engineering Support	NRCS			<p>21 – additional Ag Planners to provide technical assistance and ag planning (Blair - 6, Cambria - 3, Huntingdon - 6, Fulton - 6)</p> <p>11 – FTE Design, Engineer, Permit (Blair - 3, Cambria - 2, Fulton - 3, Huntingdon - 3)</p> <p>11 – FTE Inspector Construction Services (Blair - 3, Cambria - 2, Fulton - 3, Huntingdon - 3)</p>	<p>District/NRCS/Private Sector Farm Visits</p> <p>Private Sector/District</p> <p>Private Sector/District</p>	<p>\$2,730,000 per year</p> <p>\$1,540,000 per year</p> <p>\$1,155,000 per year</p> <p>Barnyard Runoff Control \$175K per project, assume 1 acre per project \$9.625M in total</p> <p>Agriculture Stormwater Management \$10,000 per acre → \$1,590,000</p>	<p>DEP/NRCS/SCC/PDA</p> <p>DEP/NRCS/SCC/PDA</p> <p>DEP/NRCS/SCC/PDA</p> <p>DEP/NRCS/SCC/PDA/PennVEST</p> <p>DEP/NRCS/SCC/PDA/PennVEST</p>

Phase 3 Watershed Implementation Plan (WIP) Planning and Progress Template – BLAIR, CAMBRIA, FULTON, AND HUNTINGDON COUNTY (SOUTHERN ALLEGHENIES)

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4.10	Additional animal waste management BMP implementation for livestock	<p>10,000 new AUs of animal waste management systems (B)</p> <p>2,800 new AUs of animal waste management systems (C)</p> <p>10,000 new AUs of animal waste management systems (F)</p> <p>10,000 new AUs of animal waste management systems (H)</p>	Conservation District, County Farm Bureau, NRCS, Private Sector Agriculture Farm Visits, Precision Agriculture, Agway, PSU Extension	<p>Blair County Ag Land</p> <p>Cambria County Ag Land – Chesapeake Bay Portion</p> <p>Fulton County Ag Land</p> <p>Huntingdon County Ag Land</p>	2022 –2025	<p>Time to get through planning, design, and construction; outreach to smaller farms that likely need the assistance; match cash value for small farms; readiness to plan/implement projects when outreach efforts result in willing landowners</p> <p>Lack of funding to cover engineering design</p>					<p>21 – additional Ag Planners to provide technical assistance and ag planning (Blair - 6, Cambria - 3, Huntingdon - 6, Fulton - 6)</p> <p>11 – FTE Design, Engineer, Permit (Blair - 3, Cambria - 2, Fulton - 3, Huntingdon - 3)</p> <p>11 – FTE Inspector Construction Services (Blair - 3, Cambria - 2, Fulton - 3, Huntingdon - 3)</p>	<p>District/NRCS/Private Sector Farm Visits</p> <p>Private Sector/District</p> <p>Private Sector/District</p>	<p>\$2,730,000 per year</p> <p>\$1,540,000 per year</p> <p>\$1,155,000 per year</p> <p>Animal waste management system \$175,000 per project, assume 100 AUs per project \$57.4M in total</p>	<p>DEP/NRCS/SCC/PDA</p> <p>DEP/NRCS/SCC/PDA</p> <p>DEP/NRCS/SCC/PDA</p> <p>DEP/NRCS/SCC/PDA/PennVEST</p>

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4.11*	Urban Stormwater Management, Non-Regulated (MS4) Communities	<p>Runoff Reduction Performance Standard – 47(F), 13(H) Acres treated</p> <p>Stormwater Treatment Performance Standard – 3(H) acres treated</p> <p>Wet Ponds and Wetlands – 138(B), 90(C), 75(F) Acres treated</p> <p>Advanced Grey Infrastructure – 2,600 (B) Acres treated</p> <p>Bioretention – 5 (B) acres treated</p> <p>Vegetated Open Channels – 492 (B) acres treated</p> <p>Infiltration Practices – 2 (B) acres treated</p> <p>Filtering Practices – 5 (B) Acres treated</p> <p>Dry Detention Ponds – 172 (B) Acres treated</p> <p>Dry Extended Detention Ponds – 39 (B) Acres treated</p>	Planning Commission, ISC, Municipalities	<p>Blair County Developed areas</p> <p>Cambria County Developed areas – Chesapeake Bay Portion</p> <p>Fulton County Developed areas</p> <p>Huntingdon County Developed areas</p>	2022-2025	<p>Coordination/training for municipal staff, FieldDoc batch upload opportunity, non-MS4 engagement (what’s in it for them?), difficulty obtaining past information (MS4s typically have databases from 2003-present)</p> <p>Implement existing ordinances at local municipal level</p> <p>Catalogue existing BMPs that fit into this category and newly built ones</p>	Reporting platform	FieldDoc			<p>18 Summer interns for reporting and verification</p> <p>7 – Municipal Engineers</p> <p>4 – municipal planner</p>	<p>Local University or local student attending nearby university etc.</p> <p>Municipalities, Planning Commission,</p> <p>Planning Commission, Municipality, etc.</p>	<p>\$180,000 – per year</p> <p>\$980,000 per year</p> <p>\$520,000 per year</p> <p>\$5 M overall project budget</p>	<p>NRCS/PDA/ DEP</p> <p>TBD</p> <p>DEP</p> <p>DEP Environmental Stewardship Fund, Transportation Alternatives Set-Asides Program</p>

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4.12*	MS4-related Chesapeake Bay Pollutant Reduction Plan Implementation	PRP Plan implementation by end of current permit term Bioretention – 77 acres treated Dry Ponds – 3 acres treated Stream Restoration – 17,940 LF (part of total stream restoration goal)	Antis Township, Logan Township, Altoona City, Allegheny Township, Duncansville Borough, Blair Township, Hollidaysburg Borough, Frankstown Township, ISC, Planning Commission, Engineering Consultants	Blair County MS4 Municipalities	2022-2023	Municipal capacity to implement plans (technical, financial) Develop a grant funding source just for MS4 communities so they are not competing against all stakeholders. Need larger sources of funding. Land available to implement projects. Expanded flexibility to work outside of designated areas	Municipal engineer design/permit, construction readiness	Municipalities, public works departments	Each Muni is contributing percentage cost to help fund projects, stormwater fees do exist	Municipal budgets (taxes, stormwater fees, grants)	2 – Municipal Engineers 1 – municipal planner	Municipalities, Planning Commission, Planning Commission, Municipality, etc.	\$280,000 per year \$130,000 per year Bioretention \$500,000 Dry Ponds \$30,000	TBD DEP DEP DEP
4.13	Conservation Landscaping/Turf to Meadow Conversion	Promote new program and enable one large tract landowners' participation 140 new acres of Conservation Landscaping (B) 50 new acres of Conservation Landscaping (C) 60 new acres of Conservation Landscaping (F) 50 new acres of Conservation Landscaping (H)	DCNR, Chesapeake Conservancy, municipalities CBF, Conservation District, Planning Commission, ISC, Watershed Organizations	Blair County Developed areas Cambria County Developed areas – Chesapeake Bay Portion Fulton County Developed areas Huntingdon County Developed areas	2022 - 2025	Landowner education and acceptance Existing mowing ordinances or weed ordinances may be a challenge in some communities	Planting plan assistance	Alliance for the Bay (in-kind)			4 – FTE Municipal Planner 11 – additional FTE environmental technician	Planning Commission Chesapeake Conservancy, CBF, WPC, etc.	\$520,000 per year \$1,430,000 per year \$2,500 per acre meadow → \$750,000 budget for all	DEP/DCNR DEP/DCNR/SCC/PDA/ NRCS DCNR, NFWF, USFWS

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4.14	Impervious surface reduction project	Identify a flood prone area that could be converted to a park or open space 5 – acres Impervious Surface Reduction (B)	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 Implementation Budget	4 – FTE Municipal Planner Design, permit, construction	Planning Commission Private sector	\$520,000 per year \$287,300 for impervious surface reduction	DEP/DCNR DCNR, FEMA BRIC
4.15*	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 (H)	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 municipalities Expand Dirt and Gravel Road eligible practices to include farm lanes	Education, technical assistance, project oversight Blair County using NFWF Grant for private farm lane improvement implementation	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 Dirt and Gravel Roads \$40 per foot → TBD	DEP/PDA/ SCC SCC

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4.16*	Work with PennDOT and local municipalities to reduce frequency of mowing road ditches and along roadways	Educate local municipal leaders and work with PennDOT to address state owned roads on the importance of keeping higher vegetation along roadways to prevent erosion and increase nutrient uptake.	Local Municipalities, DEP and PennDOT	Blair Countywide Cambria Chesapeake Bay Portion Fulton Countywide Huntingdon Countywide	2023	PennDOT's and Municipal willingness to cut back on mowing programs. DEP Chesapeake Bay Program will need to assist in the education of PennDOT.					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/SCC DEP
4.17	Private Funding & Grant Administration	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 administration	Financial services	HRG (CAP coordinator)			4 – FTE Conservation District Grant Manager 4 – FTE Planning Commission Grant Manager 8 – staff accountants	Conservation District Planning Commission Planning Commission & Conservation District	\$520,000 \$520,000 \$560,000 per year	TBD TBD TBD

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Priority Initiative 5: Research, Education, and Training: Blair, Cambria, Fulton and Huntingdon County														
5.1A	Incorporate existing water quality monitoring data into Chesapeake Data Explorer/ Chesapeake Monitoring Cooperative	Successful data input/acceptance by ALLARM program by end of 2021 Work with Foundation of PA Watersheds to establish their data into CMC <i>Work with BCCD and Altoona Water Authority to report data</i> Work with water and sewer authorities that monitor to include data in the Chesapeake Bay Model and/or CMC	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 <i>Explore ways to present local data working with Juniata College</i>	Data QAQC and training Data input Monitoring support	ALLARM Monitoring groups Conservation District (H)			Volunteers for Water quality monitoring New monitoring equipment 11 – additional FTE environmental technician 7 – stream biologist/environmental scientist	Local environmental groups Conservation District Chesapeake Conservancy, CBF, WPC, etc. USGS/PAFBC/ District/etc.	N/A \$40,000 \$1,430,000 per year \$980,000 per year	TBD ALLARM DEP/NRCS/DCNR/PDA DEP/DCNR/PAFBC/USGS

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5.1B	Initiate additional water quality monitoring sites that promote long-term trend evaluation at key locations	Location identification, financial and volunteer budget analysis, and initial landowner communication by end of 2021 CAST-21 acknowledgement of our data Map existing monitoring locations Expand monitoring based on Corridors of Opportunity area monitoring gaps Have DEP Re-assess Spring Run Fulton County	ALLARM, Keystone Water Resources Center, Local University, Altoona Water Authority	Blair Countywide Cambria Chesapeake Bay Portion Fulton Countywide Huntingdon Countywide , specifically Fort Run	2023-2024	Land access, expanded volunteer need, equipment/materials budget, Consistent data collection, QAQC continuation Explore ways to present local data working with Juniata College					Volunteers for Water quality monitoring New monitoring equipment 11 – additional FTE environmental technician 7 – stream biologist/environmental scientist	Local environmental groups Conservation District Chesapeake Conservancy, CBF, WPC, etc. USGS/PAFBC/ District/etc.	N/A \$40,000 \$1,430,000 per year \$980,000 per year	TBD ALLARM DEP/NRCS/DCNR/PDA DEP/DCNR/PAFBC/USGS
5.2	Create new and enhance existing local watershed associations for short-term success and long-term sustainability	Develop new or reestablish existing watershed associations to support with CAP implementation. Watershed organizations can support with outreach, engagement, new project identification and implementation	ALLARM, Keystone Water Resources Center, Local University, Tri-Run Watershed Association (Enhance), Little Juniata River Watershed Association, JK TU Chapter	Blair Countywide Cambria Chesapeake Bay Portion Fulton Countywide Huntingdon Countywide	Ongoing	Willing volunteers and leaders to establish and run watershed organizations to be successful and support with implementation Enhance the capacity of local watershed associations for short-term success and long-term sustainability	Social media shares Project development support	County – department to be determined CAP Coordinator (HRG)			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 \$5000 per organization to produce promotional materials (hats, shirts, stickers) for members → \$60,000 per year	DEP/PDA/ SCC DEP Administrative budget tied to a project grant application

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

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

1. Inputs – These are both existing and needed resources, public and private, to implement the identified priority initiative. These include both technical and financial resources, such as personnel, supplies, equipment and funding.
2. Process – what is each partner able to do where and by when. These are the action items listed under each priority initiative.
3. Outputs and outcomes – both short and long-term. These are the priority initiatives identified by each county. The performance targets are the intermediate indicators that will measure progress.
4. Implementation challenges – any potential issues or roadblocks to implementation that could impede outputs and outcomes.

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

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

Description = What. This may include programs that address prevention, education, or as specific as planned BMP installations that will address the Priority Initiative. A programmatic or policy effort will require some ability to quantify the anticipated benefits which will allow calculation of the associated nutrient reductions.

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 through 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 ($\sim 1/10$ 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.

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.

CCD – County Conservation District. The 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.

CPC – County Planning Commission. The 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 prevailing county code.

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.

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.

NRCS – Natural Resource Conservation Service. NRCS's programs help farmers reduce soil erosion, enhance water supplies, improve water quality, 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 or PK. 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, quality 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.

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 (WQ) 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.