

2025 Phase 3 Watershed Implementation Plan (WIP) Planning and Progress Report – PERRY COUNTY

Green - action has been completed or is moving forward as planned Yellow - action has encountered minor obstacles Red - action has not been taken or has encountered a serious barrier

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Priority Initiative 1: County Programmatic Initiatives

1.1	Develop a Perry County Integrated Water Plan	Develop an integrated water plan to address water quality concerns in Perry County. Utilize existing plans that incorporate water quality goals to define more precise goals and leverage resources.	PCPC, Multi-partners, County Comprehensive Plan, Hazard Mitigation Plan, Perry County Greenways, Parks, Recreation and Open Space Plan, Act 167, Act 537 Plans, Source Water Protection, existing TMDLs	Countywide	2022	Connect County plans in meaningful ways to meet local water quality goals	Existing Perry County Water Supply Plan, Comprehensive Plan	TBD – Will require a substantial revision	1 – FTE Clean Water Coordinator for Planning Commission 1 – FTE Clean Water Coordinator for Conservation District Plan development	\$130,000 per year \$130,000 per year \$150,000 for plan development	2025: No funding options for pursuit; not likely to move forward. 2024: No Update 2023: Insufficient funding to address Act 167 as part of a fully integrated approach. PADEP officials stated CAP money cannot be used. 2022: Met with DEP to discuss the opportunity and there are no available resources to support plan development. The County Comprehensive Plan is 75% complete and will be complete this year. The need for stormwater ordinances will continue to be a priority. CAP implementation is specifically called out as a goal in the County Comprehensive Plan.	2025: Action item removed due to no funding options to pursue and the item likely to not move forward.
1.2A	Implement County Comprehensive Plan policies and actions	Encourage that growth activities address existing water quality impairments through stormwater BMP implementation already required by local ordinance Annual review of municipal comprehensive plans for action items providing water quality benefits Annual solicitation of municipal interest in the Local Planning Assistance (LPA) Program Encourage the adoption of stream buffering and natural resource protection ordinances 3,000 acres of forest conserved	County Commissioners, Perry County Planning Commission, Municipal Governing Bodies, Municipal Planning Commissions, Municipal Zoning Officers, Perry County Greenways, Parks, Recreation and Open Space Plan	All 30 Perry County Municipalities Prioritize public spaces	Ongoing	Educating municipalities, updating local plans and ordinances, growth areas not consistent with Census urbanized areas Venue space for in-person meetings. Limited staffing. Municipal Officials have a tendency to chart their own direction. Outdated Municipal plans and lack of action attending to water quality.	Outreach and Education Plan Preparation encouraging buy-in with the Perry County Comprehensive Plan (One size-fit-all approach) Ordinances preparation Field work and project identification Held 30 meetings with the Natural Resources and Recreation Workgroup and the Economic Issues Workgroup (15 apiece)	\$62,100 (A portion of the budget) All 30 municipalities are eligible	2 – Municipal Engineers 1 – municipal planner 1 – FTE Clean Water Coordinator for Planning Commission 1 – Administrative Assistant	\$280,000 per year \$130,000 per year \$130,000 per year \$75,000 per year \$2,000 per acre of forest easement ☐ \$6M total	2025: No Update. 2024: No Update 2023: Continue to support municipal efforts found to be consistent with the PICTURE PERRY Comprehensive Plan. In 2023, there has been support for two water system improvement projects in Duncannon Borough and Penn Township. 2022: There will be a new slate of implementation to follow adoption of the update to the Compressive Plan in December. More detail to come next year.	

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1.2B	Prepare an updated Comprehensive Plan	Develop Basic Studies component Solicit municipal projects (action items) Develop the Plan (Framing our Future) Develop the Action Plan (Picture in Motion)	Multi-partner effort County Board of Commissioners, PCPC, all interested municipalities, PCCD, PC EMA, etc.	Perry County and Multi-Municipal	2021 and ongoing	Encouraging 100% buy-in from municipal governing bodies to adopt the county plan for their own use. Local control/ increased enforcement may be a barrier.	Current County Comprehensive Plan; Municipal Comprehensive Plans; 2020 US Census figures; community surveys	PCPC Budget; Potentially supplemented by PA DCED through a MAP Program Grant	1 – FTE Clean Water Coordinator for Planning Commission 9 community surveys to be conducted, and draft reports prepared for municipal projects	\$130,000 per year \$150,000 for updated comprehensive plan	2025: Conducted 2nd annual plan amendment process and continue to receive adoption resolutions and continue to encourage eight remaining municipalities to pass resolutions adopting the plan. 2024: Conducted 1st annual plan amendment process and continue to receive adoption resolutions and continue to get eight remaining municipalities to pass resolutions adopting the plan. 2023: Continue working to get the eight remaining municipalities to pass resolutions adopting the plan. 2022: Adoption of updated Comprehensive Plan will be by the end of the year. Next steps will be determined in 2023.	
1.2C	Implement the Source Water Protection Plans	Help ensure the groundwater and surface water resources of the county are protected from overuse or degradation. Work with municipal authorities to educate on benefit of Source Water Protection Plan – work with DEP on development of Plans where needed. Installation of cautionary signage	Bloomfield Borough Council, New Bloomfield Water Authority, Blain Borough, Millerstown Borough, Newport Borough?, Liverpool Borough	Bloomfield Borough Blain Borough Millerstown Borough Other interested municipalities	Ongoing	Overcoming lost farm revenue where BMPs take up crop land and pastureland. Educating local farmers on the municipal well recharging areas. The ability to provide real value in exchange for anticipated land production loss in areas where manure application should be reduced.	Coordination of meetings and continued education.	Bloomfield Borough	1 – FTE Clean Water Coordinator for Planning Commission Manure application offset expenses to reduce manure application to certain well influencing areas.	\$130,000 per year \$ TBD for new Source Water Protection Plans	2025: TCRPC took part in attending the annual review meeting for the Bloomfield Borough Source Water Protection Plan. 2024: HRG is looking into Municipal Source Water areas for potential projects to promote higher water quality in these areas for future project implementation. 2023: Attended an annual review meeting for the Bloomfield Borough Source Water Protection Plans. 2022: HRG and Perry County explored options with PA DEP to develop SWPP's. PADEP mentioned they are available to assist with new plan development, but no further progress to date. Work to identify potential municipalities in the fall.	
1.2D	Evaluate areas to establish riparian buffers to stabilize stream banks and limit encroachment	Identify landowners willing to participate and work with the following partners to identify (5) buffer opportunities – 41 forested riparian buffer acres (portion of Action 3.6)	Municipalities, Conservation District, PCPC, NRCS, CBF, watershed groups, Central Pennsylvania Conservancy	Countywide Prioritize public land: Lynn Sheaffer Dum Memorial Park, Millerstown Park, Wagner Park, Alta Nage Park, Little Buffalo State Park, Marysville Lions Club	5-10 years	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.	Landowner outreach; on the ground riparian project execution GIS	Portion of County Planning Budget	1 – FTE Clean Water Coordinator for Planning Commission 1 – FTE Clean Water Coordinator for Conservation District	\$130,000 per year Expand Buffer Bonus Program to provide \$10,000 per acre of buffer installed to include 5-year maintenance contract \$410,000 total	2025: The District has been looking into Baken Creek again, focusing on residential properties. They are expanding the focus to all watersheds where residents are interested. 2024: No current projects identified in Baken Creek watershed. Shifting focus to other impaired watersheds in the county. 2023: Baken Creek remains a target area with interested landowners and will be revisited this fall. 2022: PCCD's Watershed specialist is focused on 15 square miles for buffer restoration and protection work in the Montour and Baken Creek watersheds. A Baken Creek Outreach event was held in October of 2022 where 29 landowners attended. Of the 29, 14 are interested in planting buffers. Additionally, PCCD's intern used aerials to identify	

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1.3	County Sewage Plan – prepare an updated Act 537 Plan	One-time adoption of ordinance with enforcement, inspection, and tank pumping. Prepare grants, develop basic studies component, develop the action plan	Interested municipalities, Board of Commissioners, PCPC	Municipalities Howe – Township recently introduced pumping schedule	2023: 1 st year is plan development 2024: 2nd year is implementation	Landowner education will be needed to promote proper on-lot septic system maintenance. Encouraging 100% buy-in from municipal governing bodies to adopt the county plan for their own use. Funding limitations and enforcement of Act 537.	Current County Sewage Plan; Municipal Act 537 Plans; 2020 US Census figures, Pumping Schedules	PCPC Budget; Potentially supplemented by PA DCED through a MAP Program Grant	Inventory of latest municipal sewage facilities 1 – FTE Clean Water Coordinator for Planning Commission	125000	2025: Coordinated three round table meetings with PADEP, state representatives, municipal officials (governing body representatives and local sewage enforcement officers), the Perry County Commissioners, the county contracted grants writer. Actively seeking funding for this multi-municipal effort. Millerstown Borough received EPA Secondary Water Source and CFA Sanitary Sewer Improvement funding to address a second well and improve leaking sewer pipes. 2024: The Community Facilities and Utilities Workgroup has been established and has met three times. 2023: Staff is currently working to establish a Community Facilities and Utilities Workgroup to cover implementation of this particular section of	2025: Action item changed from yellow to green due to progress.
1.4	Implement County Hazard Mitigation Plan	Improve flood prone areas with BMPs that also enhance water quality Encourage municipal officials to enact stormwater management ordinances consistent with Act167 and Act102 Maintain current capital improvement list – update on annual basis	County Planning Commission, municipalities, Perry County EMA (Floodplain Administrator)	29 of 30 Municipalities, only exclusion is Landisburg Borough (no floodplain is mapped)	2023 - 2025	Funding, land for BMPs, site constraints for enlarging culverts/raising bridges. Enforcement and compliance of stormwater ordinances.	Existing digital floodplain mapping	None/Not applicable	1 – FTE Clean Water Coordinator for Planning Commission Additional detailed flood mapping where there are no immediately available base flood elevations established	N/A \$130,000 per year \$100,000	2025: The Perry County Board of Commissioners have adopted the 2025 Hazard Mitigation Plan update. The Perry County Planning Commission staff is assisting the Perry County Emergency Management Agency staff with coordinating municipal adoption of the plan at this time. 2024: The County is currently working with its consultant to update the Hazard Mitigation Plan. 2023: Third review of the annual update is in August of 2023. Consultant selected to undertake the next Hazard Mitigation Plan update. 2022: Second review of the annual update is in August of 2022.	
1.5	Act 167 Plan Development	Phase 1: Prepare Grants, Inventory of waterway obstructions, look to incentivize ordinances to protect water quality Phase 2: Prepare Grants and Plan Preparation	PCPC, all municipalities, Board of Commissioners, multi partner needs	Countywide	2021 - 2025	Should local involvement exist, additional responsibility for enforcement. Find funding to develop a Countywide Act 167 Plan. Lack of DEP funding for plan update.	Institutional knowledge		1 – FTE Clean Water Coordinator for Planning Commission Consultant	\$130,000 per year \$150,000	2025: No update. 2024: No Update 2023: Held virtual meeting with PADEP Act 167 staff to discuss how Perry County Could move forward and be recognized having an Act 167 Plan. In the absence of sufficient state funding for this approach, staff may need to shift its direction to more of a hybrid model of a countywide stormwater	2025: Action item changed from yellow to red based on no action taken.

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1.6*	Implement County Farmland Preservation Program with farmland preservation program incentives enhancement	Total farmland preservation (69 farms in program currently – approx. 9844 acres) 4 additional farms will be added by 2022 totaling 10,500 acres Look to fund 1-2 additional farms per year in preservation program. – 10,700 acres of farmland conservation	Lancaster Farmland Trust and Perry County Farmland Preservation Board, NRCS, Perry County Greenways, Parks, Recreation and Open Space Plan	Ag land use areas that fit farmland preservation criteria	2021-2022 – explore incentive opportunities	Time/technical assistance to coordinate preservation plans with funding and technical assistance 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. Sharing NRCS data is challenging.	Priority recommendations, easement revision recommendations, supplemental BMP funding research		Farmland Preservation Staff Administrator 1 – FTE Clean Water Coordinator for Conservation District	\$130,000 per year \$130,000 per year \$250,000 per farm funded, total of 8 farms à \$2M	2025: Perry County has achieved the 10,000 acre milestone for the program; Additional acres are in the process of being added; Perry County leads the state involuntarily contributed acres. Lancaster Farmland Trust applied to NFWF Chesapeake WILD grant for a preservation project on 42 acres of farmland and 69 acres of forest/natural land in Perry County. If funded, the grant will fund the development of conservation plan, forest stewardship plan, an the cost of preserving the property. Lack of funding for private land trusts for landowners interested in preserving their farms. 2024: No farms closed in 2024. 6 farms in the pipeline totaling over 700 acres. 2023: 1 farm preserved in 2023 totaling 160.32 acres. 4 properties are in the pipeline for preservation in 2024. 2022: Continuing to preserve farms using RCPP and ACEP funds. 10,000 acres have been preserved to date.	
1.7*	Establish funding and staff support to assist the Agricultural community & conduct one on one farm outreach visits 759 farms exist in Perry County	Approximately 100 farms have their plans (Conservation/ Ag E&S and/or nutrient/manure management plans) in Perry County, goal is to complete 200 by 2025. Work with private ag consultants to document plan reporting. Implementation challenges (continued): In order to communicate effectively with the farming community one on one farmer outreach must be conducted. The most effective way to capture and report BMPs is through one-on-one farm visits. Farmers do not participate in surveys or other methods.	PCCD, Contracted planners, Act 38 operators, preserved farms, Organic Farmers, Integrators	Countywide	2021-2025	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 farmland preservation programs to require PracticeKeeper reporting.	Field verification, troubleshooting Site visits and plan review Inspections – 50 per year, 1 hour per plan for data entry, 3 hours per inspection (some operations much longer)	6 – additional Ag Planners to provide technical assistance and ag planning 3 – FTE Design, Engineer, Permit 3 – FTE Inspector Construction Services 1 – FTE Clean Water Coordinator for Conservation District 1 – Administrative Assistant	\$780,000 per year \$420,000 per year \$315,000 per year \$130,000 per year \$75,000 per year	2025: LFT completed 41 site visits to farms in Perry County. Using CAP funds, one I&E was completed for a farm. 2024: The Foundation for Pennsylvania Watersheds finalized their Growing Greener grant agreement and set up contracts with HRG, Lancaster Farmland Trust, and Clearwater Conservancy for outreach and technical assistance. Work orders for ag I&Es, permits, and full designs are underway for the regional service area. 2023: FPW was awarded a Growing Greener grant for \$800,000 that will support 12 counties, including Perry, with farm outreach, planning, permitting, and project design. Outreach is planned to begin in the fall. 2022: The Foundation for Pennsylvania Watersheds applied for a Growing Greener grant totaling \$1.6 million to support additional ag engineering needs along with increased farm visits. In 2021 Lancaster Farmland Trust completed 20 farm visits. In 2022 the Lancaster Farmland Trust will complete an additional 10 farm visits.		

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1.8	Juniata River Watershed Management Plan Identify a rapid delisting watershed as part of the plan.	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. Work with the Chesapeake Conservancy to rapidly delist a watershed within the Juniata River Watershed Plan.	Western Pennsylvania Conservancy, Chesapeake Conservancy	Juniata River Watershed (Blair, Fulton, Huntingdon, Juniata, Mifflin, Perry)	2021 – Conservancy Exploring funding options 2022 – outreach and planning 2023 – start implementation	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.		DCNR Grant	1 – FTE Clean Water Coordinator for Planning Commission 1 – FTE Clean Water Coordinator for Conservation District	\$130,000 per year \$130,000 per year	WPC applied for \$37,785 with \$37,286 match Rapid Delisting Approach Project and Program Budget \$1M	2025: The Juniata River Forward: Building on 25 Years of Conservation, an update of the Juniata River Watershed Management Plan is now completed. Future plans include HRG potentially developing a StoryMap to highlight the update to the Plan in a user-friendly manner to give the public a snapshot of the plan contents. 2024: The draft of Juniata Forward: Building on 25 Years of Conservation, an update to the Juniata Watershed Management Plan, is complete and will be available for public comment starting October 1, 2024 and lasting for 30 days. Each municipality will be emailed with a link to the plan to provide comments. WPC will also put out a press release and social media posts to garner comments. Comments will be detailed in the final version of the plan. The final plan will be completed by the end of 2024. 2023: Update from WPC: Developed a public survey to garner input from constituents in the watershed. So far, 67 people have filled out the survey. Survey was advertised on social media by WPC and all members of the steering committee. A flyer was made with a QR code for advertising. WTAJ also featured a snippet on television and their website advertising the public	

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1.9A	Water quality communication plan, leveraging existing documents and covering topics including Comprehensive Plan, Hazard mitigation plan, Act 167, Greenways Plan, Perry County Water Supply Plan Utilize existing TMDLs as part of the messaging	Develop messages and audience, execute plan and distribute messaging through staff and partners Utilize the DPJM County Countywide Action Plan (arcgis.com) - ArcGIS website as a source of consistent communication	CBF, Chesapeake Conservancy, NRCS, PCCD, TCRPC, Private Sector Agriculture Farm Visits, municipalities, Farm Bureau	Countywide	2022 – 2025	Simplifying the resources that are available, targeting Perry County farmers and other landowners. Sharing staff resources across the 4-county region.	ArcGIS Hub Website 1 – lead county contact		Website development and continued maintenance 1 – FTE Marketing and Outreach Coordinator 1 – FTE Clean Water Coordinator for Planning Commission	\$10,000 per year \$130,000 per year \$130,000 per year	2025: PCCD continues to incorporate water quality messaging into county communications through mailings, social media, and outreach events. This year, we hosted our first Safe Drinking Water Clinic in partnership with Penn State Extension and plan to hold this event annually. 2024: PCCD continues to incorporate water quality into communications into the County including mailings, social media posts, and outreach events. 2023: PCCD continues to incorporate water quality into communications into the County including mailings, social media posts, and outreach events. 2022: The DPJM Countywide Action Plan website listed in the Performance Targets has been updated to include information about implementation of the Countywide Action Plans. Additionally, a GIS tracking data base has been added to capture the location of potential projects.	
1.9B	Agricultural Communication Strategy Work to develop a communication plan to engage integrators. Attend private partner ag meetings to provide information. Utilize Farm Bureau Newsletter for announcements	One on one farm outreach is the best way to communicate with farmers in addition to reporting practices. Work to develop a plan to complete one on one farm visits. Work to develop a communication plan to engage integrators. Attend private partner ag meetings to provide information. Utilize Farm Bureau Newsletter for announcements	PCCD, County Farm Bureau, Integrators, County Farmland Preservation Board, PSU Extension, NRCS, CBF	Countywide	2022-2025	Funding to support the technical assistance required to complete one on one farm outreach Outreach to integrators is a challenge due to the number of integrators and multiple county boundaries they serve. It is recommended DEP/PDA/SCC communicate with integrators on a frequent basis to reduce mixed messages.		PCCD – portion of funding	6 – additional Ag Planners to provide technical assistance and ag planning 1 – FTE Marketing and Outreach Coordinator 1 – FTE Clean Water Coordinator for Conservation District	\$780,000 per year \$130,000 per year \$130,000 per year See 1.9A for website costs. Costs for meeting attendance and administration would be covered through other funding requests.	2025: Continuing community outreach efforts, including a week-long booth at the Perry County Fair, hosting field days, mailing our bi-annual newsletter, conducting LFT BMP research, and coordinating various small educational events. 2024: PCCD has a manned booth at the Perry County Fair to provide outreach to the public. A stand is also set up at local farmers/community events such as corn day. Newsletters are also sent out twice a year. LFT will be continued to be utilized with 15 visits planned for Fall of 2024 to propose BMPs on operations and gather information to write Inventory and Evaluations (I&Es). 2023: Will continue to utilize LFT with 25 visits planned, as well as the FPW Growing Greener grant outreach. 2022: Farm visits have been utilized to conduct outreach to farmers about the Countywide Action Plan. In 2021 20 farm visits were conducted and in 2022 an additional 10 visits are scoped. The Foundation for Pennsylvania Watersheds submitted a Growing Greener grant titled 12-County	

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Priority Initiative 2: Reporting and Tracking												
2.1.1	Existing BMP cataloging (quantity and location) for select BMPs, expanding on general recommendations provided in QAPP BMPs = forest buffers, urban forest buffers, grass buffers, urban grass buffers, manure storages, grassed waterways, wet ponds and wetlands, fencing	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 or another batch upload option (FieldDoc)	Local University or Students who live locally but attend nearby Universities, Chesapeake Conservancy, Stakeholder peer review - USGS, Farm Bureau, PDA, EPA	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 reporting catchup 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	Precision Conservation Tools General methodology outline BMP field backcheck	N/A	Further GIS and data processing/method refinement 5—Student Internships to Support CAP Implementation 6—additional Ag Planners to provide technical assistance and verification support	\$46,000 (2022 only) \$50,000 per year \$780,000 per year	2025: No progress to date. 2024: No progress to date. When the current planned GIS software update is completed the district has plans to integrate BMP verification into staff roles and capacity. 2023: No progress to date, but with new District staff being hired throughout the year, the District will be exploring ways to integrate BMP verification into staff roles and capacity. 2022: In December of 2021, Perry County was awarded \$30,000 to conduct Phase 1 of a multiphased BMP verification remote sensing effort. Perry County elected to use a portion of the money for a remote sensing analysis focusing on five priority BMPs including: Barnyard Runoff Controls, Animal Waste Management Systems, Forest Buffers, Grassed Waterways, and Streambank Exclusion Fencing. Remote sensing data analysis performed by the Chesapeake Conservancy is being finalized in August of 2022 and results are provided in an online ARC Gis Portal. Qualified 3rd party staff will begin field verification efforts to verify the remotely identified practices. A BMP Verification Quick Guide is being developed by HRG to assist with field verification	2025: Due to no progress to date, this action item has been removed from the CAP.
2.2.2	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—Harrisburg/SHIP/PSU/Etc.—University, USGS, Farm Bureau, PDA, Marysville Borough, Municipal Engineers, RPCPC	Marysville Borough Countywide where feasible	2022—cataloguing 2023—batch upload processing and field views 2024—2025—implementation focus	Different data scales/precision	Precision Conservation Tools Batch upload processing BMP field backcheck	N/A	Further GIS and data processing/method refinement 5—Student Internships to Support CAP Implementation	\$46,000 (2022 only) \$50,000 per year	2025: No progress to date. 2024: No progress to date. 2023: As a part of the Chesapeake Conservancy's Cooperative Agreement with the Chesapeake Bay Program, the CIC has been working to adapt the USDA Agricultural Conservation Planning Framework (ACPF) toolbox and produce its related GIS conservation practice opportunity outputs for the entire watershed. The toolbox outputs a suite of NRCS agricultural practice opportunities at the field scale -- some have direct equivalents to Bay Program BMPs, while others do not. Since there are many assumptions made to produce these opportunity footprints across the entire watershed, they are not intended to be ground truth and should only serve as a high level reference for helping to plan efforts in combination with expert on-the-ground input. The outputs are expected to be publicly available after June 2024.	2025: Due to no progress to date, this action item has been removed from the CAP.

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2.3*	Develop a local system to capture data collection on urban-structural and non-structural practices	Add development related BMPs to PK/FieldDoc so that as land use data sets are updated, there are accompanying BMPs	Municipal engineers, Chesapeake Conservancy, PCPC, Municipalities	Urban/suburban-landscape	2022	Currently municipalities are not collecting BMP data because it is not required in non-Municipal Separate Storm Sewer System (MS4) communities. Must incentivize communities to report, no existing system in place.	Reporting platform	N/A	Training 5— Student Internships to Support CAP Implementation 1— Municipal Planner	N/A \$50,000 per year \$130,000 per year	2025: No progress to date. 2024: No progress to date. 2023: No progress to date. 2022: The Foundation for Pennsylvania Watersheds applied for a NFWF Most Effective Basins grant in April of 2022 to support Phase 2 of BMP verification remote sensing analysis. Phase 2 will include analyzing wet ponds and detention basins in urban areas across Perry County. PA DEP has updated FieldDoc to allow for additional reporting of urban practices.	2025: Due to no progress to date, this action item has been removed from the CAP.
2.4*	Implement a documentation program for commercial and homeowner nutrient applications in developed lands	Support fertilizer legislation — where legislation requires reporting, be the data clearinghouse Legislation will support the implementation of Urban Nutrient Management — 1,200 acres	PSU Extension	Countywide	TBD	Education of responsible parties, receiving timely information, training on reporting system, will need direction from State on what's expected and any reporting system that's developed.	TBD based on fertilizer legislation if passed	TBD based on fertilizer legislation if passed	1— FTE Clean Water Coordinator for Planning Commission Urban Nutrient Management \$10 per acre — \$12,000	\$130,000 per year	2022: On July 11, Governor Wolf signed SB 251, a bipartisan bill sponsored by Senator Gene Yaw (R) and Senator Carolyn Comitta (D), into law. Pennsylvania now has a law governing turfgrass fertilizer application dates, practices, rates, and type of fertilizer used. We are uncertain on how documentation and crediting will occur with the new bill.	2023: Counties are awaiting direction and guidance from the PA Department of Ag on outreach and public education on this new law.
2.5*	Improve Agricultural BMP reporting utilizing PracticeKeeper, Capital RC&D Transect Survey, PSU Survey, Manure Transport Reporting and Remote Sensing	Enter agriculture plans into PracticeKeeper Work with Capital RC&D to improve current transect survey routes to be more inclusive Work with PSU to produce better response rate to the PSU survey for Perry County Work with PDA/DEP to improve manure transport reporting	DEP, PCCD, NRCS, PDA, NRCS, Perry County Farm Bureau, Capital RC&D, Chesapeake Conservancy, PSU Survey, Manure Brokers	Countywide	2022-2025	Private sector ag planners do not have access to PracticeKeeper. County Ag planners do not have time to report private sector plans into PK. Current Capital RC&D routes are not all inclusive and could be improved. Current response rates are low and miss a large demographic of Perry County farmers. Manure brokers are not required to report data annually. Data is not inclusive.	Technical Support to enter plans into PK		5 — Summer interns for reporting and verification	\$50,000 – paid internships See 3.5 for funding needs to improve cover crop reporting for capital RC&D	2025: HRG continues to provide technical support where needed with the PracticeKeeper 3rd party entry module. PCCD utilized the Capital RC&D to verify their 2024-2025 Cover Crop Program. 2024: PCCD utilized the Capital RC&D to verify their 2022-2023 Cover Crop Program. 2023: PCCD utilized the Capital RC&D to verify their 2022-2023 Cover Crop Program. 2022: In the Spring of 2022 HRG participated in a beta testing group for the PracticeKeeper 3rd Party Module. PADEP initially released the module in June of 2022 before recalling the system for additional bug fixes. Phase 2 of the BMP verification grant submitted by the Foundation for PA Watersheds includes budget for interns from Susquehanna University to enter BMPs into PracticeKeeper.	

2025 Phase 3 Watershed Implementation Plan (WIP) Planning and Progress Report – PERRY COUNTY

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2.6*	Ensure accurate reporting of Water, Sewer and Wastewater Treatment Plant nutrient loading and plant upgrades	Work with Water, Sewer and Waste Treatment facilities to accurately document plant upgrades to capture nutrient reductions.	Marysville Borough just applied for reduced rates. Newport is doing storm sewer separations Suez (private sewer/water utility)	CSO and Waste Treatment Facilities	2022-2025	Need DEP to work with waste facilities to accurately document plant upgrades. Need reductions to be accurately captured in CAST. Work with DEP to determine how composting helps to reduce nitrogen and phosphorus. Accurately document	Municipal Engineer		1 – FTE Clean Water Coordinator for Planning Commission 1 – FTE Clean Water Coordinator for Conservation District	\$130,000 per year \$130,000 per year \$TBD Infrastructure Funding	2025: See pursuits related to the Action Item 1.3. PENNVEST grant secured for the Landisburg Borough wastewater system to bring the system into compliance with federal discharge limits (\$1,600,000); the Liverpool Municipal Authority secured funding from the Commonwealth Financing Authority (CFA) for lining and replacing a sanitary sewer main. (\$495,979); Millerstown Borough secured funding from the Commonwealth Financing Authority (CFA) for sewer system improvements. (\$425,986); Newport Borough secured funding from the Commonwealth Financing Authority(CFA) for installing new sanitary sewer along South Second Street. (\$423,113), The Oliver Township Municipal Authority secured funding from the Commonwealth Financing Authority(CFA) for rehabilitation of portions of the sanitary sewer collection system. (\$423,113); and assisted the Loysville Village Municipal Authority in securing a \$7.1M grant and another \$1.36M through a loan for the Loysville Village Wastewater Treatment Plant upgrade project. 2024: The Community Facilities and Utilities Workgroup has been established and has met three times.	
Priority Initiative 3: Achieve New Pollutant Reductions												
3.1	Development of watershed plan for Baken Creek	Partner to include CAP Goals into the development of the watershed plan. Mimic the Chesapeake Conservancy Rapid Delisting approach for this watershed Add 2 instream monitors logging real time data (streamflow, turbidity, nitrate)	PCCD	Baken Creek Watershed	2021-2022 (plan developed) 2022-2031 (implementation begins)	Lack of technical assistance and funding to support with BMP implementation.	Engineering Tech	\$10,000 in stream monitoring	1 – FTE Clean Water Coordinator for Conservation District	\$130,000 per year \$1,000,000 for implementation of Baken Creek Plan	2025: All agricultural land has been identified, and work has been completed with willing landowners. Outreach to residential landowners will resume in the Baken Creek watershed for potential buffer plantings. Efforts will also shift to other impaired watersheds with interested landowners. 2024: Despite outreach to landowners no projects have been identified in Baken Creek. Focus is being shifted to other impaired watersheds. 2023: PCCD continues to advance the ARP. Two outreach events have occurred in Baken Creek and a live stake program has been created in 2023 targeting the watershed. PCCD will investigate 319 for project implementation in the watershed.	2025: Action item changed from yellow to green based on positive progress.

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3.2*	Help farmers and operators to be in compliance with state and federal requirements: Ag Compliance and Nutrient Management Plans	<p>Soil and Water Quality Conservation Plans (Ag E&S) 13,200 36,000 acres</p> <p>Nutrient Management & Manure Management Plans 19,200 50,000 acres of Core N and 15,200 50,000 acres of Core P</p> <p>Work with Act 38 operators (33), Preserved Farms (69), and certified organic farms to document plans required as part of their respective programs</p> <p>Work with the submittal of Act 39 Nutrient Balance Sheets for documentation</p> <p>Implementation challenges (continued): Recommended for DEP to continue funding for Ag Plan development – CEG Program</p>	4R Alliance, PCCD, Perry County Farm Bureau, NRCS, Private Sector Agriculture Farm Visits, PA Sustainable Agriculture (PASA), ACT 38 farms, Preserved Farms, Integrators	Countywide Ag Land	2022-2025	<p>Lack of DEP inspections. 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, recommended 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</p>			<p>6 – additional Ag Planners to work with farmers to develop required plans</p> <p>\$780,000 per year</p> <p>\$15 per acre for a total cost of \$199,500</p> <p>\$15 per acre for a total cost of \$289,500</p>	<p>2025: The Nutrient Management Technician and District Manager have obtained provisional certification, allowing them to provide technical assistance to operators in the county. The Ag Resource Specialist is currently completing coursework and is expected to obtain provisional certification by December 2025.</p> <p>2024: Nutrient management technician and District Manager have obtained provisional certification which can be used to provide technical assistance to operators in the County.</p> <p>2023: Lack of certified planners continues to be an impediment for this goal.</p> <p>PCCD has hired a new District Manager, Watershed Specialist, and Nutrient Management Technician in services of this initiative.</p> <p>2022: An additional 2,200 acres of Conservation Plans and 1,800 acres of Core Nutrient Management was reported in 2021 compared to 2020 reporting.</p> <p>As part as the Chesapeake Bay Technician Agreement, staff capacity will allow for 20 additional plans for farms on an annual basis.</p>	<p>2025: Goal was increased to reflect number of acres already associated with plans.</p> <p>2023: Goal was increased to reflect number of acres already associated with plans.</p>	
3.3	Advanced Nutrient Management (4R) Practice Education and Implementation	<p>Work with manure management and nutrient management plans to document and report 4R practices</p> <p>Increase existing 4R practice (N/P Rate, Timing and Placement by 1,800 6,000 acres)</p>	4R Alliance, PCCD, Perry County Farm Bureau, NRCS, Private Sector Agriculture Farm Visits, PA Sustainable Agriculture (PASA)	Countywide Ag Land	2022-2025	<p>Landowner interest, BMP verification burden (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>	Educational support		<p>6 – additional Ag Planners to work with farmers to meet 4R standards</p> <p>\$780,000 per year</p> <p>\$10 per acre of advanced nutrient management planning per type ☐ total cost for all is \$108,000</p>	<p>2025: PCCD continues to use the supplemental form during annual status reviews of Act 38 operations and is exploring educational outreach to engage farmers on 4R nutrient stewardship.</p> <p>2024: PCCD continues to use the supplemental form during annual status review of Act 38 operations.</p> <p>2023: PCCD continues to use the supplemental form during annual status review of Act 38 operations.</p> <p>2022: No progress to date.</p>	<p>2025: Action item changed from yellow to green based on progress.</p> <p>2023: Goal was increased to reflect number of acres already treated.</p>	

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3.4*	Implement Practice to improve soil health and sustainability (Tillage Management and Cover Crops)	Determine feasibility of having a county/state cost share program to enhance adoption of the annual practice, pay per acre of cover crop implemented. Implement tillage management and cover crops on an annual rate of 22,500 45,000 acres High Residue, 12,500 acres Conservation Tillage, 3,000 acres Low Residue, 17,000 29,000 acres of cover crops and 12,000 acres of cover crops with fall nutrients Implementation challenges (continued): Organic farmers are using tillage to manage weeds and vertical tillage is becoming more popular among farmers.	PCCD, Perry County Farm Bureau, NRCS, Private Sector Agriculture Farm Visits, PA Sustainable Agriculture (PASA) All partners need to be on the same page, following the same guidance.	Countywide Ag Land	2022 – investigation 2023 – next steps	Capacity to manage the program, landowner interest Lack of technical assistance and farm planners to work with farmers to transition to High Residue Tillage Current verification methods do not accurately capture implemented amounts – work with Capital RC&D to improve Transect Survey Routes Farmers are harvesting cover crops for forage, need accurate efficiency 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	Transect survey 4 - Existing No-Till farm equipment for Rent		6 – additional Ag Planners to transition farmers to high residue CD District shared No-till Drill County PCCD – staff to administer the program	\$780,000 per year \$75,000 drill, with maintenance \$90 per acre traditional per year ☐ \$1.53M for a 5-year total of \$7.7M (incentive payment, administration) \$50 per acre fall nutrients per year ☐ \$600K for 5-year total of \$3M \$50,000	2025: To date in 2025, 607 acres have participated in the no-till drill program, and 3,199 acres are enrolled in the 2025 cover crop incentive program. 2024: To date 561.1 acres have participated in the no till drill program and there are 3155 acres enrolled in the cover crop incentive program for 2024. 2023: To date, 706.5 acres have participated in the PCCD No Till Drill program. For the 2022-2023 Cover Crop Program (its inaugural year), 2,929 acres were cover cropped. For the 2023-2024 Cover Crop program, 3,040 acres have been applied for the program. 2022: PCCD purchased a no till drill in the spring of 2022 with CAP Block Grant funds to rent to farmers to implement no-till. To date the no-till drill has helped to plant 425 acres of High Residue Tillage Management. Additionally, PCCD is using the CAP Block Grant to administer a Cover Crop Program. The Cover Crop Program registration closed in July and 3,218 acres of farmland is registered to receive cover crops in the winter of 2022.	2023: Goal was increased to reflect number of acres already treated.

2025 Phase 3 Watershed Implementation Plan (WIP) Planning and Progress Report – PERRY COUNTY

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3.5	Implement more pasture management BMPs	<p>Prescribed grazing – 3,000 acres</p> <p>Off Stream watering without fencing/pasture alternative watering – 1,800 acres</p> <p>Forest buffers on fenced pasture corridor – 5 acres</p> <p>Grass buffers on fenced pasture corridor – 20 acres</p> <p>Land Retirement to Ag Open Space – 200 1,000 Acres</p>	PCCD, NRCS, Private Ag Consultants, CBF, Chesapeake Conservancy, Capital RC&D, PA Sustainable Agriculture (PASA)	Countywide ag lands – landowners who raise horses, dairy, beef, and other pasture grazing animals	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> <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> <p>Increasing construction costs are resulting in canceled NRCS contracts.</p>	Landowner education	Existing funding available	<p>6 – additional Ag Planners to provide technical assistance and ag planning</p> <p>3 – additional FTE environmental technician</p>	<p>\$780,000 per year</p> <p>\$390,000 per year</p> <p>Prescribed grazing \$540 per acre @ \$1.62M total</p> <p>Off stream Watering \$500 per acre @ \$900K total</p> <p>FB Buffer W/ Exclusion \$10,500 per acre @ \$53,000 total</p> <p>GB Buffer W/ Exclusion \$2,750 per acre @ \$55,000 total</p> <p>Land Retirement \$500 per acre @ \$100K total</p>	<p>2025: The Perry County Grazing Group continues to meet and participate in educational events. This year, a grazing field day was hosted at a local operation with 75 participants and six different sessions. In addition, 10 acres of prescribed grazing were completed.</p> <p>2024: Perry County Grazing Group, which has existed for four years, has 15-20 members who continue to practice rotational grazing and act as a peer to peer network.</p> <p>2023: Perry County Grazing Group, which has existed for three years, has 15-20 members who continue to practice rotational grazing and act as a peer to peer network.</p> <p>2022: Phase 1 of BMP verification identified 145 potential hits for streambank exclusion fencing. This data set will allow for increased reporting of buffered acres with exclusion fencing.</p> <p>Perry County Grazing Group, which has existed for two years, has 15-20 members who practice rotational grazing and act as a peer to peer network.</p>	
3.6*	Riparian buffer and re-forestation BMPs	<p>400 riparian forest buffer acres, (365) acres lost since 2017 need reverified</p> <p>500 250 riparian grass buffer acres – (40) acres lost since 2017 need reverified</p> <p>250 acres – Agriculture Tree Planting</p> <p>6 acres – urban forest buffer</p> <p>1 acre – urban tree canopy</p> <p>1 – acre of urban forest planting</p>	CBF, Chesapeake Conservancy, NRCS, PCCD, Private Sector Agriculture Farm Visits	Countywide	<p>2022 – line up landowners</p> <p>2023-2025 – implementation</p>	<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>Flash grazing must be allowed with buffer installation.</p> <p>Funding program must include a 5-10-year maintenance program to establish buffers along with incentive program \$4K minimum per acre payment.</p> <p>No extended lease or easement.</p>	Materials	Budget available to be determined	<p>6 – additional Ag Planners to provide technical assistance and ag planning</p> <p>3 – additional FTE environmental technician</p>	<p>\$60,000-\$80,000</p> <p>\$780,000 per year</p> <p>\$390,000 per year</p> <p>Forest Buffer \$10,000 per acre @ \$410K</p> <p>Grass Buffer \$2,500 per acre @ \$1.2M</p> <p>Tree Canopy \$5,000 per acre @ \$5K</p> <p>Tree/Forest Planting \$10,000 per acre @ \$2.5M</p>	<p>2025: 0.19 acres of buffer are planned for 2025–2026. A live staking program was completed at the Ickesburg Sportsman’s Club, where approximately 75 live stakes were planted by students. Outreach to landowners about additional buffer plantings will continue.</p> <p>2024: PCCD has had one property that has interest in live staking and a riparian buffer. 1/4 acre is planned for 2025.</p> <p>2023: PCCD has created a Live staking Program targeting stream corridors and their riparian buffers in County. 5 acres are planned for 2023.</p> <p>2022: Phase 1 of BMP verification will identify potential hits for grassed waterways and forest buffers implemented in the past 10 years. These potential BMPs will need field verified but provide a great opportunity to identify BMPs not currently reported.</p> <p>396 acres of riparian buffers have been verified and entered into PracticeKeeper.</p>	2023: Goal was increased to reflect number of acres already implemented.

2025 Phase 3 Watershed Implementation Plan (WIP) Planning and Progress Report – PERRY COUNTY

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3.7	Wetland restoration implementation on marginal production agricultural land	5-50 100 - acres of Wetland Restoration 30 - Acres of Wetland Enhancement and Rehabilitation Identify 1 large property owner from University of Vermont restorable wetland layer to help identify where wetland restoration is feasible	Chesapeake Conservancy, PCCD, NRCS, Private Sector Agriculture Farm Visits, CBF	Countywide	2022 –2025	Willing landowner; appropriate siting, design, and construction for successful restoration result Lack of technical assistance for landowner outreach and agriculture planning to identify potential site locations	Landowner outreach		3 – additional FTE environmental technician 2 – stream biologist	\$390,000 per year \$280,000 per year Wetland Restoration \$30,000 per acre @ \$1.1M	2025: Two potential wetland restoration locations have been identified. 2024: HRG has been utilizing existing maps and outreach to determine potential locations for wetland restoration projects. From there HRG plans to develop a regional grant application for the SRBC Consumptive Use Grant. 2023: No progress to date. 2022: No progress to date.	2025: Action item changed from yellow to green based on positive progress. Goals were increased to reflect number of acres already associated with projects..
3.8	Stream Restoration (Urban and Agriculture)	4,000 5,000 Linear feet (~3 mile) Urban Stream Restoration 6,000 Linear feet Agriculture Stream Restoration	CBF, Chesapeake Conservancy, TU National, PFBC Stream Restoration Team, PCCD, PCPC	Rapid delisting areas top priority & Countywide based on landowner interest	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. Lack of funding to cover engineering design.		Lack of funding to cover engineering design.	Assume \$900/LF - \$13M Assume \$400/LF - \$2.4M \$280,000 per year \$420,000 per year \$280,000 per year	2025: Two potential streambank stabilization projects have been identified and added to the 2026 funding sheet. One is a 5,100 sq. ft. project on Raccoon Creek, and the other is a 145 ft. section on Little Juniata Creek. Both streams are trout stocked. 2024: A new potential streambank stabilization project has been identified in Centre Township for future implementation. 2023: Stream stabilization/habitat on Shultz Creek. 80' of mudsill and riprap to stabilize and create trout habitat and 20' wing to aid in stabilization. Working with Trout Unlimited for the stabilization project. 2022: No progress to date.	2025: Action item changed from yellow to green based on positive progress. 2023: Goals were decreased to reflect lack of progress to date.	
3.9	Implement more barnyard runoff control/loafing lot management	60-70 150 acres of barnyard runoff controls 1-3 acres of loafing lot management 500 acres of agricultural drainage management	PCCD, Chesapeake Conservancy, NRCS, Perry County Farm Bureau	Countywide Farms	2022-2025	Landowner buy-in and project development/funding. Lack of Technical assistance to support agriculture planning and implementation. Lack of funding to cover engineering design. Increasing construction costs are cancelling NRCS contracts.		6 – additional Ag Planners to provide technical assistance and ag planning 3 – FTE Design, Engineer, Permit 3 – FTE Inspector construction Services	\$780,000 per year \$420,000 per year \$315,000 per year Barnyard Runoff Control \$175K per project, assume 1 acre per project \$6.8M in total Agriculture	2025: 3 HUAs were installed with 4 in progress. 2024: 6 animal heavy use area stabilization projects were contracted this year. 2023: One project is slated for installation in Fall of 2023 that will incorporate a 4,905 SF HUA. 2022: Phase 1 of BMP verification will identify where barnyard clusters are located and determine if they are livestock operations or poultry operations. Those operation can be cross referenced with PracticeKeeper and other BMP verification data sets to consider outreach to farms without both.	2025: Goals were increased to reflect number of acres already associated with projects. 2023: Goal was increased to reflect number of acres already being treated, and an increase in available funding for related projects.	

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3.1	Animal waste management BMP implementation for livestock	<p>31,000 total AUs</p> <p>1,500 AUs of animal mortality composting management</p> <p>2,800 new AUs of livestock</p> <p>1,600 new AUs of poultry</p>	PCCD, SCC, CEG Program, County Farm Bureau	Livestock & Poultry farms	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 yield willing landowners.</p> <p>Lack of funding to cover engineering design.</p>	Project implementation	Average NRCS Cost share is about \$75,000 per acre	<p>6 – additional Ag Planners to provide technical assistance and ag planning</p> <p>3 – FTE Design, Engineer, Permit</p> <p>3 – FTE Inspector construction Services</p>	<p>\$780,000 per year</p> <p>\$420,000 per year</p> <p>\$315,000 per year</p> <p>Animal waste management system \$175,000 per project, assume 100 AUs per project \$7.7M in total</p>	<p>2025: One liquid storage has been installed, one solid storage has been installed, and three dry stacking storages are in progress.</p> <p>2024: There were 4 solid manure storage facilities and 1 liquid manure storage facility contracted this year.</p> <p>2023: One project is slated for installation in Fall of 2023 that will incorporate a 10' x 68' liquid manure storage.</p> <p>2022: BMP Verification Phase 1, shows the potential to report an additional 52 animal waste storage facilities currently not reported through PracticeKeeper. Those 52 facilities will need to be field verified.</p>	
3.11*	Manure Transport out of Perry County	<p>Transport 750 4,000 dry tons per year out of Perry County</p>	PCCD, NRCS, Perry County Farm Bureau, Manure Brokers	Countywide	2022-2025	<p>Current reporting standards do not require manure broker and haulers to report manure transported. New regulations must be developed to require haulers and brokers to submit information to DEP.</p>			1 – FTE Clean Water Coordinator for Conservation District	\$130,000 per year	<p>2025: Manure transport documentation still remains an issue. Look to state agencies for support working with manure haulers and brokers to collect data.</p> <p>2024: PCCD continues to use the new tracking methods developed last year</p> <p>2023: PCCD is utilizing new tracking methods to track nutrient balance sheets.</p> <p>2022: Manure transport documentation still remains an issue. Look to state agencies for support working with manure haulers and brokers to collect data.</p> <p>From 2020 to 2021 manure transport increased by</p>	
3.12*	MS4-related Chesapeake Bay Pollutant Reduction Plan Implementation	<p>Plan implementation by end of current permit term</p> <p>Vegetated Open Channels – 20 0 acres treated</p> <p>Infiltration Basin – 5 0 acres treated</p> <p>Infiltration Practices with sand, vegetation, no underdrain - 5 acres treated</p> <p>Dry Extended Detention Basin – 4 0 acres</p> <p>Storm Drain Cleanout – 13,900 lbs. of solid removed</p> <p>Marysville Borough has signed lease with Lions Club to implement Projects near the pond. (70% of requirement)</p>	<p>Marysville Borough</p> <p>PCPC, Tri County Regional Planning Commission</p>	Marysville Borough	2022-2023	<p>Municipal capacity to implement plans (technical, financial).</p> <p>Flexibility to work outside of designated urbanized area.</p>	Municipal engineer design/permit, construction readiness	Unknown	<p>2 – Municipal Engineers</p> <p>1 – municipal planner</p>	<p>\$280,000 per year</p> <p>\$130,000 per year</p> <p>\$700,000</p>	<p>2025: Action item changed from green to yellow based on waiting to hear back from the Borough.</p> <p>2025: Contacted Marysville Borough regarding their reporting 8/19/2025 seeking a copy of their reporting to the PADEP.</p> <p>2024: Contacted Marysville Borough regarding their reporting 8/13/2024 seeking a copy of their reporting to the PADEP.</p> <p>2023: No progress to date.</p> <p>2022: Borough is on track to implement their PRP which will result in the reporting of the performance target BMPs.</p>	<p>2023: Goals were decreased to reflect of lack of progress to date.</p>

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Action #	Description	Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources Available		Resources Needed		Annual Progress to Date (2021 to 2025)	Reason for Change to Action Item (2023-2025 milestone period)
							Technical	Financial	Technical	Financial		
3.15*	Continue dirt and gravel road program	19 miles 50,000 LF (9.5 miles) overall restored through past projects and future projects Continue to implement the program annually	PCCD	Countywide	2025	Continue D&G Road program funding Expand Dirt and Gravel Road Program to include farm and residential lanes	Education, technical assistance, project oversight	\$2.4 Million since 1998	1 – FTE Clean Water Coordinator for Conservation District	\$130,000 per year Dirt and Gravel Roads \$40 per foot --> TBD	2025: Stormwater systems were installed on Newport Road and Blacksnake Road, and DSA was installed on Boose Road. 2024: One of the project this year was in Jackson Township on Conococheague Rd. This project replaced an old crosspipe, added 4 additional crosspipes and an underdrain. The second project located in Centre Township on Boose Rd included raising the road 3' and installing 19 crosspipes. Between the two project 7850 feet of road was restored. 2023: Juniata Twp: Homestead Rd. Stream Crossing project- 8' arch pipe was installed. Replaced a 2' round metal pipe for a stream with bank full width 7.4'. Jackson Twp: Mount Pleasant Rd. DSA placement on 2890 feet of road. Removed and replaced 3 cross pipes and added 2 more (15" pipe) to help with drainage.	
3.16*	Work with PennDOT and local municipalities to reduce frequency of mowing/spraying 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. Potential to use sustainable mowing for hay for ag use	Local Municipalities, DEP and PennDOT	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.			1 – FTE Clean Water Coordinator for Planning Commission 1 – FTE Clean Water Coordinator for Conservation District	\$130,000 per year \$130,000 per year	2023: No progress to date. 2022: No progress to date.	2023: Consistent lack of progress and lack of coordination/buy in from PennDOT through State partners.
3.17	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).4 Grant administration is a challenge due to limited staff and time-consuming nature of grant reporting and administration.	Financial services		1 – FTE Conservation District Grant Manager 1 – FTE Planning Commission Grant Manager 2 – staff accountants	\$130,000 per year \$130,000 per year \$140,000 per year	2025: No progress to date. 2024: No progress to date. 2023: FFAR and Walton Family Foundation opportunities did not proceed. No progress to report from County-led activities. 2022: HRG and LFT are exploring potential opportunities to apply to the Foundation for Food & Agriculture Research (FFAR) and the Walton Family Foundation's new program, Achieving Conservation through Targeting Information, Outreach and Networking (ACTION) to support innovative research that increases adoption of conservation practices. A potential grant application would bolster farm visits in Perry County to increase the adoption of Conservation Practices.	

Priority Initiative 4: Research, Education, and Training

2025 Phase 3 Watershed Implementation Plan (WIP) Planning and Progress Report – PERRY COUNTY

Green - action has been completed or is moving forward as planned Yellow - action has encountered minor obstacles Red - action has not been taken or has encountered a serious barrier												
Action #	Description	Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources Available		Resources Needed		Annual Progress to Date (2021 to 2025)	Reason for Change to Action Item (2023-2025 milestone period)
							Technical	Financial	Technical	Financial		
4.1*	Develop new water quality monitoring data into Chesapeake Data Explorer/ Chesapeake Monitoring Cooperative database	Successful data input/acceptance by ALLARM and other environmental groups program by end of 2021. Map existing monitoring locations. Implement 25 new water quality monitoring stations.	ALLARM, Keystone Water Resources Center, Juniata College, Juniata County Watershed Association, Harrisburg University	Ag impaired streams and Countywide	2023	Data precision, QAQC, opportunity to educate landowners about local stream health and what they can do about it. Currently no groups doing water quality monitoring. Limited USGS monitoring (streamflow only).			Volunteers for Water quality monitoring New monitoring equipment 3 – additional FTE environmental technician 2 – stream biologist	N/A \$125,000 – 25 new monitors \$130,000 per year \$280,000 per year	2025: ALLARM (Dickinson College) has continued interest in more restoration monitoring, although federal funding is a concern. 2024: There is one water quality monitoring location at the Stonehouse Inn along Montour Creek with interest in placing a second site on the same property. 2023: Dickinson College's Alliance for Aquatic Resource Monitoring (ALLARM) is a community science center that works with communities in the Mid-Atlantic region to use science as a tool to investigate stream health while generating data that can be used for aquatic protection and restoration efforts. ALLARM's Stream Team program aims to develop baseline water quality data examining the relationship between land use, geology, and water quality. PA communities have collected biological, chemical, and physical data, and continue to do so in these targeted counties: Cumberland and Dauphin. There are currently 19 active Stream Team Sites in Cumberland County, and 3 active sites in Dauphin County. Monitoring data for these active sites, as well as sites not currently monitored in Cumberland, Dauphin, and Perry Counties are located in the CMC	
4.2	Supporting watershed associations for short-term success and long-term sustainability aligning with their goals	Develop new or reestablish existing watershed associations to support with CAP implementation. Watershed organizations can support with outreach, engagement, new project identification and implementation.	Conservation District, Tri-County Regional Planning Commission	Countywide Shermans Creek Buffalo Creek	Ongoing	Willing volunteers and leaders to establish and run watershed organizations to be successful and support with implementation.	Social media shares Project development support		1 – FTE Clean Water Coordinator for Planning Commission 1 – FTE Clean Water Coordinator for Conservation District	\$130,000 per year \$130,000 per year \$5000 per organization to produce promotional materials (hats, shirts, stickers) for members --> \$5,000 per year	2025: No Update 2024: No progress to date. 2023: No progress to date. 2022: No progress to date.	