

2025 Phase 3 Watershed Implementation Plan (WIP) Milestone Report – CENTRE COUNTY												
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Priority Initiative 1: County Programmatic Initiatives												
1.1A	Implement County Comprehensive Plan policies and actions (PHASE 1 = 2003, PHASE 2 IMPLEMENTATION = AG, TELECOM, LANDUSE)	Centre Regional Growth Boundary Full Implementation as part of Centre Region Comp Plan (2013)  Ensure that growth activities address existing water quality impairments through stormwater BMP implementation already required by local ordinance	CCPC, growth boundary municipalities	Ferguson, Patton, State College Borough, College Township, Harris Township	Ongoing	Educating municipalities, Updating local plans and ordinances, Growth areas not consistent with Census Urbanized Areas and their contributing storm sewersheds	Education, outreach, 1 CCPD staff person	N/A	Local planning coordination	N/A	2025 - CRPA is compiling an update to the 2013 Centre Region Comprehensive Plan which is being completed in-house. CCPCDO is exploring consultant assistance and funding opportunities for a countywide comp plan update to the Phase I/Phase II. Additionally, CCPCDO staff is coordinating with Regional PCs to update the future land use maps.  2024 - Both Centre Regional Planning Agency and Centre County Planning Office are at full staff capacity. CRPA is implementing portions of their Climate Action and Adaptation Plan while CCPCDO will be initiating a countywide comp plan update with revised future land use elements.  2023- No progress to date. Municipalities are strategizing ways to incorporate utility grade solar infrastructure into their plans which will have bearing on this Action Item.  2022 - COG is working on an Implementation Strategy for the Centre Region Climate Action and Adaptation Plan ( <a href="https://www.crcog.net/caap">https://www.crcog.net/caap</a> ) that will identify a specific roadmap of the actions needed in the next 3- 5 years to put us on the path for meeting our goal of GHG emissions reduction and climate adaptation. This will include specific projects related to land management and clean healthy water - probably more on the policy side. Centre Region COG will be working with community stakeholders and partners in the coming year.  2021 - Based upon initial outreach, the Centre Regional Planning Agency may be better positioned to achieve these implementation goals for the geographic area	2025: Action item changed to green.
1.1B	Implement County Comprehensive Plan policies and actions (PHASE 1 = 2003, PHASE 2 IMPLEMENTATION = AG, TELECOM, LANDUSE)	Map existing AMD BMPs and address additional impairments in Moshannon Creek and Beech Creek  Explore DEP Pilot Project for Chesapeake Bay Program Nutrient Reduction Credit	Moshannon Creek Watershed Association, DEP Office of Mining	Moshannon Creek Watershed, Phillipsburg, Rush Township, Show Shoe Township, Burnside Township	2021 – pilot initiation	Majority of Association’s work has occurred in Clearfield County, drought can make sampling inconsistent, additional sampling network and BMP implementation with volunteers only, EPA acceptance of results where correlations may be drawn (data may be inconclusive on the short-term)	Field work, Project identification	N/A	Project design	Assume \$500k needed per project	2025 - CCCD collected stream samples with MCWA as pre-construction data for a major solar panel project on abandoned mining lands with AMD. In 2025, a planning project began with MCWA to rehabilitate wetlands, springs, and seeps near Coldstream Dam through the installation of treatment system(s). A meeting with MCWA and mining company reps occurred this year to discuss daylighting old mines to improve water quality. Currently planning to coordinate with DEP to discuss potential conservation opportunities through this partnership. CCCD collected stream samples with TU in Beech Creek Watershed. TU is keeping a log of the data collected in streams to determine what best remediation methods should be installed and where.  2024 - The CCCD has been collaborating with Trout Unlimited and DEP's BAMR to address areas of concern within the Beech Creek watershed, as well as working to identify any unknown AMD sources. The 105D discharge into Sandy Run contributes the highest metal concentrations and acidity loadings into Beech Creek, and the landowner is willing to work with the CCCD, TU, and BAMR to continue sampling efforts and work towards the placement of a passive treatment system on his property. Penn State professors are interested in student projects within the Beech Creek watershed as well, which could be a great opportunity for mapping existing AMD BMP's in the watershed. We have been collaborating with the Moshannon Creek Watershed Association in their AMD water quality sampling efforts. A lot of their sampling efforts over the past couple of years are within Centre County. Also, the MCWA published a Coldwater conservation plan for the Moshannon Creek watershed in 2021 that highlighted the areas of concern in the watershed. DEP's BAMR is in the early stages of addressing these areas, starting in the headwaters of Moshannon Creek with the Roup Run discharges (MC-7, MC-8, MC-8.5). Data shed also has a map the AMD treatment areas in Pennsylvania, which can help with any mapping efforts.  2023 - Chesapeake Bay Scientific and Technical Advisory Committee (STAC) is undertaking a technical review of AMD stream restoration and nitrogen processing.	2025: Action item changed to green.

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1.1C	Advance local comprehensive planning efforts  Penns Valley, 2006 – Implement the Source Water Protection Plan	An annual review of the document and setting/fulfilling 1 goal.  Partner with NRCS to determine eligibility of improvements regarding source water protection and the 2018 Farm Bill	Centre Hall Borough, Centre Hall Water Authority	Centre Hall, Millheim, Penn Township, Potter Township	1-2 years	Reinforcing the municipal role in coordinating with the water authorities to perform education and outreach. Recommendations include putting SWP plans on the municipal websites and consider annual/bi-annual joint meetings and informational mailings to property owners who are in proximity to Zone 1 (well heads). Source water projection is relevant to Chesapeake Bay pollutant load reductions because reducing pollution to groundwater reduces discharges to local streams, while contributing to the Bay goals and protecting local drinking water sources.	Educational flyer forms and activities lists.  Coordination of meetings and continued education.	Minimal for printing, postage, website maintenance (\$250)	N/A	N/A	2025 - The Penns Valley Regional Planning Commission and the member municipalities adopted updated portions from the 2006 comprehensive plan.  2024 - CCPCDO additional staff hired so revisiting this item in 2025 or beyond is more feasible.  2023- No progress to date. CCPD staffing capacity needs filled to focus on Penns Valley. CCPD hopes to fill required position to advance this initiative in 2024.  2022 - No update.  2021 - The Penns Valley Regional Planning Commission is gaining traction on completing the regional comp plan update and hosted a joint water systems operators’ meeting in July 2021. The outcome of the meeting was to foster better communication and thus coordination between the water systems to address operational issues.  Future meetings may include the source water protection discussion to advance this initiative.	2025: Action item changed to green.

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1.1D	Advance local comprehensive planning efforts  Penns Valley, update – Facilitate efforts to minimize flood impacts	Not set in comp plan  										

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<del>1-1E-3</del>	<del>Advance local comprehensive planning efforts</del>  <del>Nittany Valley, 2004—</del> <del>Participate in source water protection planning</del>	<del>Complete a SWP for Walker Twp. Water Association</del>  <del>2021— meet with Walker Township and Water Association to facilitate discussion and identify if a feasibility study should be conducted</del>	<del>Municipality, Water Association, DEP, Consultant</del>	<del>Walker Township</del>	<del>1-2 years</del>	<del>The Association structure vs. Authority structure has proven to be problematic for both DEP technical and financial assistance. The water system has been non-compliant in recent years and is in need of expensive repairs. The township should discuss the feasibility of taking over the system under an authority and complete a SWP.</del>	<del>Further discussion with township, consultant driven plan.</del>	<del>N/A</del>	<del>N/A</del>	<del>Assume \$300,000 planning cost</del>	2022 - Buffer gaps are mapped by Chesapeake Conservancy and can be utilized for project development/educational needs that support this goal.	2022: Funding for source water protection plans are not available and local infrastructure priorities take precedent.

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<del>1.10E-04</del>	<del>Advance Centre Region Climate Action and Adaption Plan</del>	<del>Participate in the development of “Clean Healthy Water” goals</del>	<del>Centre Region Planning Agency, Council of Governments Climate Action and Adaptation Technical Advisory Group, Centre County municipalities with Climate Action Plans</del>	<del>Centre Region</del>	<del>Ongoing</del>	<del>Connect our plans in meaningful ways so that climate action and local water quality goals can mutually benefit</del>	<del>Plan development</del>	<del>N/A</del>	<del>N/A</del>	<del>N/A</del>		Limited anticipated connections between now and 2025.
1.1F-1	Advance local comprehensive planning efforts  Milesburg/Boggs, ongoing – Work with respective water authorities to implement Source Water Protection Plans	Bi-annual review of plan and joint meeting	Milesburg Borough and Milesburg Borough Water Authority; Boggs Township and PA American Water; Bellefonte Borough/Authority	Within the Zone 1 and Zone 2	1-2 years	Reinforcing the municipal role in coordinating with the water authorities to perform education and outreach. Recommendations include putting SWP plans on the municipal websites and consider annual/bi-annual joint meetings and informational mailings to property owners who are in proximity to Zone 1 (well heads).	Educational flyer forms and activities lists.  Coordination of meetings and continued education	Minimal for printing, postage, website maintenance (\$250)	N/A	Assume \$300,000 planning cost	2025 - No movement to date. Water Authority member changes will require education and coordination but not likely to happen until 2026 or 2027.  2024 - Elected Officials and Authority Board member changes will be a challenge in coordinating this effort.  2023 - CCPD continues to work with Milesburg/Boggs to update their plan. CCPD staffing capacity needs filled to focus on these municipalities. CCPD hopes to fill required position to advance this initiative in 2024.  2022 - Planning staff attending Spring Creek Watershed meetings to gage more about implementation of the Phase 3 component. Some consideration may be given from Boggs to explore a well head protection overlay ordinance however much education will be needed.  2021 - This goal drew some interest at June’s comp plan team meeting and concerns about the extent of future development in the Spring Creek Watershed impacting the Big Spring aquifer were voiced. Team members anticipate future land swaps between the state and private developers that are at the aquifer’s headwaters. The Milesburg Borough Water Authority routinely sends DEP reports to customers, so upon plan adoption, this could be a priority goal to launch implementation.	
1.1F-2	Advance local comprehensive planning efforts	One-time adoption of ordinance with enforcement contingent upon program cycle of inspection and tank pumping.	Boggs Township, SEO	Upper Boggs Township beyond public sewer extent	5 years	Public acceptance and public hearing meetings may be contentious given associated program fees needed for program sustainability. Landowner education will be needed to promote proper on-lot septic system maintenance and risks to groundwater resources. DEP involvement through Act 537 may act as a catalyst.	N/A	N/A	Inventory of property owners with on-lot systems; program tracking software; SEO.	\$90,000 per year – employee budget, assume \$12,000 per year is recouped through permit fees	2025 - Carry this goal over as staff prepares future land use maps.  2024 - Retain this a goal in and beyond 2025. CCPCDO staff capacity and solid working relationship with Boggs Township.  2023- CCPD continues to work with Milesburg/Boggs to update their plan. CCPD staffing capacity needs filled to focus on these municipalities. CCPD hopes to fill required position to advance this initiative in 2024.  2022 - Municipal staff changes at Boggs will likely delay this item 6-12 months. Solid examples of other programs available for consideration when time appropriate.  2021 - Boggs Township expressed concern about how to start up the program and what costs are associated. They seem open to discussing the program further in concept if the CCPCDO can provide some initial technical support and program start-up costs would be covered by grant.	

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1.2A	Implement County Hazard Mitigation Plan (2015, update kickoff JUNE 2020)	Improve flood prone areas with BMPs that also enhance water quality	CCPC, municipalities	Spring Mills (Penns, Sinking Creeks); Coburn (Penns, Elk, Pine Creeks)	2023-2025	Funding, land for BMPs	N/A	N/A	Planning, engineering, permitting, construction	\$5,000,000	<p>2025- The permit has been submitted for the SRBC Consumptive Use Grant project. WPC is planning to start fundraising for the implementation phase winter of 2025.</p> <p>2024- WPC applied for funding with SRBC's Consumptive Use Grants to design and permit a floodplain restoration and groundwater recharge project along Spring Creek. Designs and permitting are expected to be completed by end of 2024. The project has support from PFBC, SRBC, and HRG.</p> <p>2023- An update is slated for 2024. All municipalities have been asked to adopt resolutions and contribute their projects to this initiative.</p> <p>2022 - Spring Mills/Coburn listed similar 2021 HMP goals for flood protection measures. More feedback on community interest will be gained at the HMP annual review September 2022.</p> <p>2021 - No discussions with Penns Valley regarding hazard mitigation have taken place to date, though this is not planned to start until 2023.</p>	
1.2B	Implement County Hazard Mitigation Plan (2015, update 2020-2021)	Improve flood prone areas with BMPs that also enhance water quality – <i>address tributaries impaired by ag activities (Little Marsh Creek) and tributaries (Holt Run/Bald Eagle Creek) impaired by pathogens downstream of Milesburg Borough and upstream of Bald Eagle State Park</i>	CCPC, Milesburg Borough, Boggs Township, Centre County Farm Bureau, Bald Eagle Creek Watershed Association, Trout Unlimited, National Fish and Wildlife Service	Milesburg Boro, Boggs Twp (lower Bald Eagle and Spring Creek);	2021 – review flood-resulting pinch points and map out upstream BMP opportunities	Funding, local/landowner interest	Planning		Planning, engineering, permitting, construction for ultimate solution	\$5,000,000	<p>2025- The permit has been submitted for the SRBC Consumptive Use Grant project. WPC is planning to start fundraising for the implementation phase winter of 2025.</p> <p>2024- WPC applied for funding with SRBC's Consumptive Use Grants to design and permit a floodplain restoration and groundwater recharge project along Spring Creek. Designs and permitting are expected to be completed by end of 2024. The project has support from PFBC, SRBC, and HRG.</p> <p>2023- An update is slated for 2024. All municipalities have been asked to adopt resolutions and contribute their projects to this initiative.</p> <p>2022 - Partnership between Centre County Conservation District and the Farmland Preservation program continued. One field meeting with Conservation District staff and Farmland Preservation coordinator occurred with a current preservation applicant which resulted in one additional conservation plan input into PracticeKeeper.</p> <p>Joint inspections will continue to take place on both preserved and applicant farms.</p> <p>2021 - Centre County Conservation District established a partnership with the Farmland Preservation program in Centre County planning. County staff and HRG created and mailed a letter about the CAP to all 53 preserved farms in the region. To date, two field meetings with Conservation District staff and the Farmland Preservation coordinator occurred regarding new preserved easements, which resulted in two additional Ag E&amp;S plans to be input into PracticeKeeper.</p> <p>No additional mailings are planned – working on in-person meetings with preserved farm owners to discuss conservation plans &amp; BMPs on property. Currently at 4 field meetings for farmland preservation applications – resulted in two additional Ag E&amp;S Plans to be input into PracticeKeeper as well as two Conservation Plans to be developed. The County Farmland Preservation Program received a grant from American Farmland Trust to create an Action Plan for Soil Health for Preserved Farms. The Centre County Conservation District will be assisting their office with plan development and implementation.</p>	

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1.3	Update/draft Act 167 Plans	<p>Address climate change storm intensities and enhanced water quality needs with respect to development and agriculture</p> <p>Create new model stormwater ordinance that would require/incentivize additional protections for streams (high quality and impaired)</p>	CCPC, municipal engineers, PSU	Countywide	2021 – discuss interest to pursue and funding opportunities	Should local involvement exist, funding for Plan update	Institutional knowledge	N/A	Act 167 Plan Development	\$250,000	<p>2022 - The 2022/2023 state budget includes new funding to support the development of Act 167 plans. Centre County currently areas within the County with no Act 167 plan, but with new funding plans to explore opportunities to develop an Act 167 Plan.</p> <p>2021 - The CAP team discussed the existing Act 167 Plans and resulting model ordinances with key local stakeholders. The results of the discussion is that the ordinances are working as expected for flood mitigation and water quality is addressed through calculations. MS4s will be updating their ordinances based on the new DEP model ordinance in line with their permit implementation schedule.</p>	
1.4	Implement County Farmland Preservation Program with farmland preservation program incentives enhancement	<p>Total preservation farm goal (67 farms in program currently –10,563 acres, average purchase price \$3,202 per acre, ADD 2-3 FARMS EACH YEAR ON AVERAGE) Farmland Trust – 17 parcels</p> <p>Preserved farms will implement and maintain pollution control BMPs beyond what is required for compliance</p>	Centre County Farmland Trust and Centre County Agricultural Preservation Coordinator, NRCS, Clear Water Conservancy, PennAg Industries Association, PDA	Ag land use area that fits farmland preservation criteria	2021-2022 – explore incentive opportunities	Operator acceptance, additional resources for plan development (requirement of program), additional staff need to handle inspection and paperwork, incentivize BMP installation as a farmland preservation goal, O&M partnership, verification, landowner acceptance/potential barriers to land preservation goals	Guidelines update recommendations	N/A	Guideline updates	Assume \$150,000 per farm → \$900,000M	<p>2025: The Farmland Preservation Program preserved one farm totaling 111 acres in Ferguson Township.</p> <p>2024: Partnership between Centre County Conservation District and the Farmland Preservation program continued. Four farms have been slated for preservation in 2024. Typically three farms are preserved annually, one farm was carried over from 2023. In 2022 Farmland Preservation received a grant from the American Farmland Trust for soil health education. There is to be a pasture walk October 11, 2024 to utilize the remainder of the funds.</p> <p>2023- Partnership between Centre County Conservation District and the Farmland Preservation program continued. Five farms have been slated for preservation in 2023. Typically three farms are preserved annually, but extra funding supported two additional farms entering into preservation.</p> <p>2022 - Partnership between Centre County Conservation District and the Farmland Preservation program continued. One field meeting with Conservation District staff and Farmland Preservation coordinator occurred with a current preservation applicant which resulted in one additional conservation plan input into PracticeKeeper.</p> <p>Joint inspections will continue to take place on both preserved and applicant farms.</p> <p>2021 - Centre County Conservation District established a partnership with the Farmland Preservation program in Centre County planning. County staff and HRG created and mailed a letter about the CAP to all 53 preserved farms in the region. To date, two field meetings with Conservation District staff and the Farmland Preservation coordinator occurred regarding new preserved easements, which resulted in two additional Ag E&amp;S plans to be input into PracticeKeeper.</p>	



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1.5A	Establish funding/staff support to assist the Agricultural community (day to day support)  1140 ag parcels in Centre Co	700 farms have their plans, including NRCS plans, might get up to 900 farms as this grant gets finished → focus on BMP implementation for these farms  <del>86,000</del> 50,000 total acres under manure management plans/ nutrient management plans  <del>70,000</del> 50,000 total acres under ag E&S plans	CCPD, CCCD, Contracted planners	Centre County ag land	2021-2025	Limited compliance activities by DEP. Insufficient funding for public sector staff to assist the ag community.	Field verification, troubleshooting	N/A	1 engineer, 1 planner, 2 technicians	\$350,000 per year  \$15 per acre for a total cost of \$1,237,500	2025: Two I&Es, funded through the Foundation for Pennsylvania Watersheds gran, are planned to be completed by the end of 2025. Two additional I&Es are being completed which are funded through the CAP Block Grant.  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- CCCD has hired a new Watershed Specialist in support of this initiative. Penn State University is creating a Center for Agriculture Conservation Assistance which will support the agricultural community and train conservation professionals in agricultural BMPs.  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.  CAST Progress Reports trend analysis have been used to determine new BMP goals.  2021 - Information pulled from October 1, 2020 through July 15, 2021 (not inclusive of information in PracticeKeeper prior to this date):  New Act 38 plan acreage: 1,753 acres New MMP plan acreage: 4,322 acres New Ag E&S plan acreage: 5,546 acres  The Centre County Conservation District applied for, and received, a Growing Greener grant to pay Contract Plan Writers to develop plans for interested farmers in Centre County. The Plan	2022: Reduce BMP goals to be realistic with timeline and current implementation.
1.5B	Develop plans	2 plans per month per consultant, assume backlog is complete (ag E&S and manure mgmt. plans)	CCCD, Contracted planners	Centre County ag land	2022-2023	Utilize outreach program to get landowners signed up for this during Winter 2020/2021	Contracted planners	\$50/plan to be paid to contractor	N/A	N/A	2025 - The Plan Writer's Grant was not renewed for 2025, but a new application was submitted to DEP in June 2025 to re-fund this program. We are building up a back log of plans now in order to be ready if we receive funds. Two Manure Management/Ag E&S plans were funded through the PACD Ag Plan Reimbursement Program and five plans have been written by CCCD staff.  2024- Plan Writer's grant was extended through the end of 2024. Only six additional plans written this year as backlog is complete and requests for plans have slowed down. We have funded a total of 76 MMP and/or Ag E&S Plans with the Growing Greener 649 Grant. If we cannot renew this grant for an additional year, we will send new plan requests through the PACD Ag Plan Reimbursement Program which pays 80% up to \$1500 for the cost of a plan.  2023- Through their 649 Growing Greener Grant funding, CCCD contracted with commercial plan writers to prepare plans. The contractors have prepared 70 plans for Centre County through 2023.  2022 - Currently, only one of our three plan writers is still active, though one may begin writing plans for us again by the end of the year. The conservation district is requesting a one-year extension on the growing greener 701 grant used to pay the plan writers and may consider adding another plan writer in 2023 to bring our writer back up to three.  2021 - Now working with three plan writers (new plan writer started in June 2021). January 2020 to July 2021, 31 plans written by private plan writers through the District's Growing Greener grant. 6/1/2019 (Date of grant received) – Plan Writers first began in January 2020, Total as of 8/23/2021 is 35 plans written.	



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1.5C	Chesapeake Bay Technical Inspection/ Plan Data Gathering	Collect data regarding existing farm plans and implementation progress  50 farms per year --> 200 farms through 2025	CCCD	Ag land use area	2021-2025	Farmer knowledge of the location and contents of their plan, obtaining copies of existing plans to determine if they are up to date	Site visits and plan reviews	\$200,000	N/A	N/A	<p>2025 - 50 inspections were conducted in the 24-25 fiscal year. There are still remaining phase 1 farms to be inspected, but some phase 2 inspections have been conducted and we anticipate conducting more phase 2 inspections in the 25-26 fiscal year.</p> <p>2024- 50 inspections were conducted in the 23-24 fiscal year. There are still remaining phase 1 farms to be inspected, but some phase 2 inspections have been conducted.</p> <p>2023- 52 inspections have occurred. Currently in Phase 1.</p> <p>2022 - The Chesapeake Bay Agricultural Inspection Program is two inspections behind from the previous fiscal year, increasing the required inspections for the present year to 52. All farms inspected are still in the Phase 1 stage.</p> <p>2021 - The Chesapeake Bay Agricultural Inspection Program is on schedule for 2021 and plan information is being entered into PracticeKeeper as part of the program workflow. As of May 31, 2021: 51 farms inspected. The Phase 1 inspection scope is completed in addition to farm networking, operational details, funding programs and the farmer’s resource concerns.</p> <p>Implementation is discussed in relation to BMPs listed in the plans as well as updating plans at the time of inspection to include BMPs that have been installed but</p>	
1.5D	Other Plan Data Gathering	Collect data regarding existing farm plans and implementation progress  ~45 farms per year --> 170 farms through 2025	CCCD, HRG, Ag Consultants, NRCS, Chesapeake Conservancy	Ag land use area	2021-2025	Farmer knowledge of the location and contents of their plan, obtaining copies of existing plans to determine if they are up to date	50 farm visits per year  Existing Plans data sharing  Request/revie w plans as part of farm support	Conservation Plan Inventory	Existing plan data	Assume 20 plans per year (\$120,000 per year)	<p>2025 - HRG was hired with CBP funds to conduct remote sensing and field verification of BMPs in three townships in Centre County. 57 additional BMPs were recorded in PracticeKeeper as a result of this effort. The district plans to continue using BMP verification funds to support this effort.</p> <p>2024- No additional BMP verification was done this year, however, the district will have BMP verification funds available again in 2025 and plans to use these funds to hire HRG as a subconsultant to do remote sensing and field verification in additional municipalities within Centre County.</p> <p>2023 - Conservation District staff continue to populate PracticeKeeper with existing agricultural plan information as Bay inspections occur. Further, the BMP Verification funding secured in 2022 was used to field verify practices that already exist in the field. The entire dataset has not yet been field verified but the Conservation District continues to utilize part of its annual budget to further map and verify practices across the County. A subconsultant, HRG, was hired to run remote sensing methods and field verify grazing and other structural agricultural practices in two townships.</p> <p>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.</p> <p>2021 - As of July 15, 2021: 11 additional plans (not collected through inspection program). Farmers provided them to the Conservation District as a result of their</p>	

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<del>1.6A</del>	<del>LandscapeU Partnership – Planning</del>	<del>Receive project opportunity/prioritization deliverable to assist with 2021 implementation steps</del>	<del>PSU Profs – Erica Smithwick, Jason Kaye; graduate students</del>	<del>Legacy sediment landscapes  Riparian Properties  Preserved Farms</del>	<del>2021</del>	<del>Student ownership of assignment, water quality monitoring data compatibility/consistency, GIS knowledge</del>	<del>Prioritization deliverable</del>  <del>Background data</del>  <del>Spring Creek Watershed Atlas</del>  <del>WRMP Report</del>	<del>N/A</del>	<del>N/A</del>	<del>N/A</del>	<del>2022 - Students advanced the 2021 research in the 2021-2022 school year. WQ monitoring status database and mill dam story map with some project location priorities have been provided. We'll see if the 2022-2023 cohort of students are interested in advancing these studies into implementation (Action 1.6B).  2021 - Centre County received the student reports from the 2020-2021 academic year and is considering the conclusions for next steps and additional student project opportunities. Link to one of the public reports: Overlap of Biophysical Need for and Sociodemographic Indicators of Willingness to Adopt Riparian Buffers in Centre County, PA (psu.edu)</del>	<del>The planning phase is now complete.</del>
1.6B	TREES LandscapeU Partnership - Implementation	Develop graduate students so that they can effectively engage in landowner outreach during implementation years	PSU Profs – Erica Smithwick, Jason Kaye; graduate students	Legacy sediment landscapes  Riparian Properties  Preserved Farms	2022-2025	Continued graduate engagement as students graduate through program, implementation funding	Outreach boots on the ground	N/A	Digital and print materials highlighting local projects	TBD – might link to other Priority Initiatives’ budgets	2025 - During 2024-2025, students conducted two research projects: 1) "A transdisciplinary approach to monitoring the beech creek watershed and navigating barriers to remediation" and 2) "Assessing the social and ecological benefits of the Willowbank Conservation Landscaping Project." Construction/Installation of the Willowbank conservation landscaping project is scheduled to occur later this year. The 2025-2026 TREES project ideas have not been finalized yet.  2024: In early 2024, Students advanced research into implementing conservation landscaping practices in the Spring Creek Watershed. They made recommendations on site selection and outreach strategies. Their recommendations were incorporated into the District's pilot year of its Conservation Landscaping Program.  5 potential projects for the 2024-2025 school year have been identified and those scopes will be finalized in October for the Students to participate in this school year.  2023 - Students advanced the 2022 research in the 2022-2023 school year. The students advanced the research from the 2022-2023 school year by utilizing the GIS base created by previous students and implementing similar analysis in the Marsh Creek watershed. The students also focused on adoption of riparian buffers with the Plain Sect Community in that watershed. Their work provides base maps and initial/potential riparian buffer project locations.  2022 - See note from 1.6A. Also, notably, the new Chesapeake Bay technician hired this year attended LandscapeU classes, so in a way, we've already achieved the performance target.  2021 - Centre County received the student reports from the 2020-2021 academic year and is considering the conclusions for next steps and additional student project opportunities for the 2021-2022 school year.	Program's name has changed to TREES.
<del>1.6C</del>	<del>Quantify Land/BMPs Managed by Penn State University</del>	<del>Work with office of physical plant and other PSU groups to ensure that water quality improvements that they manage are captured in EAST/FieldDoc</del>	<del>PSU Office of Physical Plant?, PSU College of Ag Sciences</del>	<del>PSU-owned/managed land in Centre County</del>	<del>2021</del>	<del>Getting maximum credits for experimental BMPs</del>	<del>Institutional knowledge</del>	<del>N/A</del>	<del>N/A</del>	<del>N/A</del>	<del>2022 - FieldDoc project entry for existing projects continues to be on hold by PADEP.  2021 - This initiative is on hold until FieldDoc is running for urban BMP data collection. Ag BMPs will be documented in PracticeKeeper as appropriate.</del>	<del>Since PSU is an MS4, it may be better for their existing BMPs to be reported through the MS4 program and integrated into Pennsylvania reporting, rather than putting the onus on the County.</del>
<del>1.6D</del>	<del>Leverage Ag Progress Days as an opportunity to educate more farmers on local water quality issues and solutions</del>	<del>Have a booth and class(es) at Ag Progress Days 2021</del>	<del>CCCD, CCPD, Chesapeake Bay Foundation, Chesapeake Conservancy, 4R Alliance</del>	<del>Countywide</del>	<del>2021</del>	<del>Preparation time, county staff availability, opportunity to encourage farm stakeholders to participate with us</del>	<del>Educational materials and demonstration exhibits</del>	<del>NFWF grant funding, assume \$5,000 could be invested in this</del>	<del>Class offering</del>	<del>N/A</del>	<del>2022 - Centre County Conservation District continues to participate in Ag Progress Days each year.  2021 - Centre County Conservation District staff participated with the riparian buffer tour and pollinator plots, while providing educational materials at Ag Progress Days. The Conservation District also presented information at the Grange Fair.</del>	<del>Since this is part of the District's annual work and it doesn't result in numeric reductions, we're removing it from the CAP.</del>

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1.7	Water quality communication plan, leveraging existing documents and covering topics including Homeowner Guide to protecting Drinking Water, Agricultural Practices and BMPs that reduce pollution, Methods and land use controls that protect groundwater quality and control quantity (Riparian & Forest Buffers, slope control), Proper Turf Management Methods (Natural Landscaping and/or Chemical Application and Treatment Measures), The Homeowner’s Guide to Stormwater, Urban/Suburban BMPs	Develop messages and audience; execute plan and distribute messaging through staff and partners	Board of Commissioners staff, Penn State Sustainability Institute, PA DEP Northcentral Office, Penn State Extension (Master Gardeners), PA Rural Water Association, Penn State LandscapeU, Clearwater Conservancy, Trout Unlimited (Spring Creek Chapter), Penns Valley Conservation Association, Spring Creek Watershed Commission, Moshannon Creek Watershed Coalition (Association), Bald Eagle Watershed Association, USDA-NRCS, DCNR, PSU AEC	Countywide	2023-2024 - launch of new plan based on baselining completed in 2022.	Simplifying the resources that are available	Communicatio ns skillset	N/A	Website development and continued maintenance	\$30,000 per year	2025 - Rain barrels: hosted a rain barrel workshop with State College Community Land Trust for their homeowners, collected barrels to pass out to anyone who wanted one, created a pamphlet "Homeowner’s Guide to Rain Barrels" which explained the benefits of rain barrels and how to build one at home  Conservation Landscaping: Provided free meadow seed mix to residential landowners who were looking to convert parts of their lawn to native meadows. We also provided educational materials that explained the benefits of native meadows and how to install the seed mix.  Buffers: Prepped educational materials for landowners that explained how and when to harvest/install livestakes using certain tree species that could be found on their own property.  2024- Partnership with Penn State's CACAT on rain barrel workshops, including one that was held in the spring at the Pasto Ag. Museum. The next workshop will be held in the fall, specifically for residents within the Marsh Creek watershed. Landowner outreach and technical assistance in the Marsh Creek watershed has helped inform the nonpoint source pollution and flooding concern sections of the Marsh Creek watershed plan. A Watershed Specialist NPS Education Mini-Grant is being used for a rain garden demonstration project, which will be completed in 2025. We are continuing our participation in the K10 tree program, and assisting landowners with acquiring K10 trees that are used for both riparian buffer and upland plantings. The conservation district continues to be involved in the riparian buffer tour at Ag. Progress Days, as well as tabling events where we display resources on riparian buffers and conservation landscaping. Educational information continues to be posted on Instagram and Facebook. The Spring Creek Watershed Commission, with assistance from the CCCD, has formed a Conservation and Stewardship committee with that aims to create a stormwater education resource guide for landowners. There are plans for 1-2 manure management workshops in 2025, and there were	
<del>1.8</del>	<del>Countywide WQ Credit Offset Pilot</del> <del>Variables to consider:</del> <ul style="list-style-type: none"><li><del>● # of Farms/Forest preserved within the Corridors of Opportunity (COO)</del></li><li><del>● Miles of riparian buffer created within COOs.</del></li><li><del>● # of Ag. BMPs established within COOs.</del></li><li><del>● Miles of Stream stabilization and restoration within COOs.</del></li><li><del>● Spring Creek Watershed Resource Monitoring Quarterly Progress</del></li><li><del>● # SWM facilities maintained within municipal park systems</del></li><li><del>● Acres of Preserved Open Space and Environmentally Sensitive Areas</del></li></ul>	<del>Demonstrate measurable success of a pilot project area where MS4 regulated areas and non-regulated areas can benefit from achieving sediment and nutrient goals</del>	<del>Centre County Municipalities, Centre County Agricultural Preservation Program, the Centre County Farmland Trust, Centre County Conservation District, Clearwater Conservancy, Spring Creek Watershed Commission, Trout Unlimited (Spring Creek Chapter), Penns Valley Conservation Association</del>	<del>MS4 watershed HUC12 pilot area</del>	<del>2021</del>	<del>DEP acceptance of approach, permit compliance coordination among sectors</del>	<del>Engineering/M</del> <del>S4 permit requirement coordination</del>  <del>Project opportunity ideas</del>	<del>N/A</del>	<del>For implementation, if the pilot works, 1 FT MS4 Coordinator, 1 PT ag Coordinator</del>  <del>Project design and construction</del>	<del>\$150,000 per year</del>  <del>Unknown until concept is developed and cost savings are calculated</del>	<del>2022 - No update.</del>  <del>2021 - HRG had a discussion with the Harris Township engineer to brainstorm pilot project areas that would be potential candidates for a more cost effective and local water quality beneficial approach to implementing their MS4 Pollutant Reduction Plan (PRP). Because cost effective projects have already been identified across all of the MS4s in the county, we will explore candidate projects over the life of the CAP but will likely not pursue implementation of any until the municipalities’ next MS4 permit application requirement is known.</del>	<del>While the MS4 communities have a strategy in place to implement the current PRP, and while the current permit status (extension/new MS4s) is unknown, there is little opportunity to explore implementation of an offset pilot.</del>

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Priority Initiative 2: Reporting and Tracking												
2.1A	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	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)	Lead - Chesapeake Conservancy  Stakeholder peer review - PSU, USGS, Farm Bureau,  PDA, EPA	Centre County	2021 – cataloguing  2022 – 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	Precision Conservation Tools  General Methodology Outline  BMP Field backcheck	N/A	Further GIS and data processing/method refinement	\$46,000 (2021 only)  Assume \$200,000 annual salary/benefit (per person) need for 2 staff people to follow up on BMP verification annually	2025: BMP verification was completed by HRG in April of this year. HRG inventoried around 50 new BMPs that have been reported into PracticeKeeper for approval and submission by the District. Additional BMP verification work is tentatively planned for 2026.  2024- A 2025 scope was developed where HRG will perform a remote sensing GIS data analysis to develop a BMP cataloguing dataset with publicly available information and a PracticeKeeper data export that will be provided by CCCD. Remote sensing analysis will be performed for the following BMPs (rotational grazing, off-stream water systems, grassed waterways, streambank fencing, and waste storage facilities) in the following Townships: Penn, Gregg, and Potter.  2023- A subconsultant, HRG, was hired to run remote sensing methods and field verify grazing and other structural agricultural practices in two townships.  District Technicians have integrated BMP verification into their daily workload.  CCCD hired a summer intern to help advance this goal.  2022 - In December of 2021, Centre County was awarded \$30,000 to conduct BMP Verification. Centre County elected to use some of the money on the remote sensing analysis focusing on six priority BMPs including: Barnyard Runoff Controls, Animal Waste Management Systems, Forest Buffers, Grassed Waterways, Streambank Exclusion Fencing and wet ponds/detention basins. Remote sensing data analysis performed by the Chesapeake Conservancy is being finalized in August of 2022 and results are provided in an online ArcGIS 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 efforts.	
2.1B	Identify future ag/urban project opportunities using automated means	<del>BMP opportunity analysis – ag conservation, land retirement, alternative crop, forest conservation, stream restoration</del>  <del>Back check with staff field views</del>  <del>Batch upload to FieldDoc to calculate credit opportunity</del>	<del>Lead – Chesapeake Conservancy</del>  <del>Stakeholder peer review – PSU, USGS, Farm Bureau, PDA, municipalities with MS4 permits</del>	Centre County	<del>2023 – cataloguing</del>  <del>2024 – batch upload processing and field views</del>  <del>2025 – implementation focus</del>	<del>Different data set scales/precision</del>	<del>Precision Conservation Tools</del>  <del>Batch Upload Processing</del>  <del>BMP Field Check</del>	<del>N/A</del>	<del>Further GIS and data processing/method refinement</del>	<del>\$44,000 (2021)</del>	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.  2022 - No progress to date.  2021 - See 2.1A for progress as this initiative is a companion initiative.	2025: Action item removed due to no progress to date.  2022: Updated the expected timeline. This is a relevant topic that requires additional technical assistance funding similar to the BMP Verification funding that was appended to the Coordinator grant in 2022.

2025 Phase 3 Watershed Implementation Plan (WIP) Milestone Report – CENTRE COUNTY												
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<del>2.2</del>	<del>Improve continuous data collection on urban structural and non-structural practices</del>	<del>Add development-related BMPs to CAST/FieldDoc so that as land use data sets are updated, there are accompanying BMPs</del>	<del>Municipal engineers, Bellefonte Borough, Chesapeake Conservancy?</del>	<del>Urban/suburban landscape</del>	<del>2023-2025</del>	<del>Non-MS4 engagement (what's in it for them if they don't already have a BMP database?); difficulty obtaining past information (MS4s typically have databases from 2003-present)</del>	<del>Reporting platform</del>	<del>N/A</del>	<del>Training</del>	<del>N/A</del>	<p>2025- No progress to date. Remove from the CAP.</p> <p>2024- No progress to date.</p> <p>2023- No progress to date.</p> <p>2022 - Phase 1 of the BMP verification remote sensing analysis includes analyzing Centre County for Wet Ponds and Detention Basins. These BMPs will need field verified. Additionally, PA DEP has updated FieldDoc to allow for additional reporting of urban practices.</p> <p>2021 - The CAP team discussed the existing Act 167 Plans and resulting model ordinances with key local stakeholders, and the need for urban BMP reporting was also discussed. Since the County records plans that are as-builts, it is possible to go back through the plans and capture BMPs for reporting in FieldDoc. Going back to 2010 is an option since that's when operation and maintenance agreements started to be required.</p>	<p>2025: With no progress on this goal over the past few years, this goal is to be removed from the CAP.</p> <p>2022: Still a relevant action; extended the expected timeline.</p>
<del>2.3</del>	<del>Implement a documentation program for commercial and homeowner nutrient applications in developed lands</del>	<del>Support fertilizer legislation — where legislation requires reporting, be the data clearinghouse</del>	<del>Centre County — department to be determined</del>	<del>Countywide</del>	<del>TBD</del>	<del>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</del>	<del>TBD</del>	<del>TBD</del>	<del>TBD</del>	<del>TBD</del>	<p>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.</p> <p>2021 - This initiative is being pursued by legislators. HRG has coordinated with the Chesapeake Bay Commission staff on the topic and receives periodic updates.</p>	<p>2022: Counties are not identified in the legislation as a lead on this initiative.</p>
Priority Initiative 3: Achieve New Pollutant Reductions												
3.1	Implement BMPs from Growing Greener plan development farms	<p>Design and install four manure management systems and AHUAs per year (20 systems total)</p> <p>13 acres of treated area, assuming we build 20 more loafing lots (5 farms per year)</p>	CCCD, NRCS, Chesapeake Bay Foundation, Chesapeake Conservancy	Centre County ag land	2021-2025	Having enough in-house technical assistance capacity to see projects from concept through construction	Design, construction oversight	N/A	N/A	<p>Assume 5 projects per year, \$440,000 each, \$2,200,000 per year (construction and technical assistance), \$6.6 M total (2023-2025)</p>	<p>2025 - Construction on the Stine project is completed which installed a RHUA, rotational grazing system, and two stream crossings. The K. Hall project has a finished RHUA and the rotational grazing system will be completed before the end of the year. The Woomer project has a fully constructed RHUA and liquid manure storage tank. The Smith project was significantly delayed, but construction will finish before the end of the year on a manure stacking structure. The R. Weaver project is finished and installed a mortality compost facility. The M. Hall project is under construction and will be finished before the end of the year on a RHUA and silage leachate filtration system. The Brown and Grove RHUA projects have started construction and may be able to finish before the end of the year or in early 2026. The Liner project experienced significant delays and will be included in the 2026 slate of projects. The CCCD anticipates four additional RHUA projects in the 2026 season in addition to the Liner project (Rider, Darlington, Flick, Myers).</p> <p>2024- Both 2023 projects were completed. Four additional projects (Stine, Smith, K. Hall, Woomer) installing manure management systems are currently construction ready and will be finished in 2024 or early 2025. A fifth (R. Weaver) to be installed in the same timeframe will implement an animal mortality composting facility and two additional projects (Pighetti, E. Weaver), currently under construction are implementing a rotational grazing system. Four additional manure management systems are expected for the 2025 construction season (Brown, M. Hall, Grove, Liner).</p> <p>2023- Both 2022 projects have been completed. two additional projects were identified and should be complete by the end of 2023.</p> <p>2022- Existing plans and verified BMPs continue to be reported through PracticeKeeper. As of 8/15/2022, projects to install four manure management systems or protected AHUAs have been completed, one more is expected to be completed by the end of the year and another by spring of 2023.</p>	

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3.2	Implement Halfmoon WIP	WIP approval – 2021  Implementation Grant Application – 2022 – see plan (when approved) for BMP specifics  Partial Implementation – 2023-2025  Implement land retirement to pasture - 178 acres. BMP verification will support the goal.	Chesapeake Bay Foundation, Centre County Conservation District, Dr. Preisendanz Lab Group of Penn State University, DCNR, Chesapeake Conservancy, Western Pennsylvania Conservancy, Keystone 10 Million Tree Partnership, Penn State Agriculture & Environment Center, Huntingdon County Conservation District, Clear Water Conservancy, Partners for Fish & Wildlife, Penn State Extension, USDA ARS Pasture Systems and Watershed Management Research Unit	Halfmoon Watershed – Halfmoon Township and Ferguson Township	2021-2025	Funding, landowner interest in BMPs, implementation partner coordination	Outreach and coordination	\$5,000	Design, permit, construction oversight	\$4,700,000  Land Retirement \$500 per acre: \$89K total	2025 - CCCD and HRG are working with DEP to determine whether we can fund an agricultural conservation project located on a tier 3 property.  2024- The Pascavage stream restoration project has been completed on Halfmoon Creek and the Loveville tributary, which has stabilized 2,200 linear feet of streambank. Estimated reductions are 165,440 pounds of sediment, 648 pounds of nitrogen, and 170 pounds of phosphorous per year. We are actively looking for parcels in the Halfmoon Creek watershed, specifically active farms with resource concerns, that will be funded under the Halfmoon 319 NPS Grant.  The animal mortality composting facility referenced in 3.1 is within the Halfmoon Creek Watershed. One of the manure management system projects (Stine) is also in the watershed and will implement a vegetated buffer along 1700 ft of Warriors Mark Run (tributary to Halfmoon Creek) and implement fencing to exclude cattle from this portion of the creek. USFW is in the process of implementing a large streambank stabilization project on the halfmoon Creek 319 Project that stabilizes 2,600 LF of eroded streambanks. Implementation will begin as soon as a GP-1 is authorized, and work is expected to begin during the summer of 2024.  2023- A large scale full farm implementation project was completed in partnership between the Chesapeake Conservancy, the Clearwater Conservancy, the Northcentral Pennsylvania Conservancy, and HRG. The project included wetland and riparian buffer restoration, streambank regrading and channel protection, 2 livestock stream crossings, a 39' x 47' roofed manure storage facility, a 39' x 104 roofed HUAP	2022: Add land retirement to be consistent with BMP template. Verification will achieve some of the 178 acre goal.
3.3	Accelerated implementation of Rapid Delisting Catchment Strategy through the Precision Conservation Partnership	Implement 9 previously scoped projects resulting in 29 acres of forest buffer, 9.4 acres of fencing with buffer, 11 acres of wetland restoration, 5,000 LF of stream restoration	Chesapeake Conservancy and the Precision Conservation Partnership stakeholders	Beaver Branch, Halfmoon – Bald Eagle, Halfmoon – Loveville, Elk Creek, Tributary to Pine Creek	2021-2030	Reinvigorating landowner interest, design/permit/construction schedules, construction match dollars	Program management and GIS  Landowner Outreach	\$500,000	N/A	\$16,000,000	2025- RCPP funded nine projects in high priority areas for rapid delisting. All projects are currently underway or have been completed. These projects include barnyard restorations and fencing, in-stream restoration, and grassed waterways. The Halfmoon WIP has led to two in-stream restoration projects and ongoing buffer maintenance.  2024- RCPP funded five projects in high priority areas for rapid delisting (Fye, Bressler, Fisher, Hart, Stine). All projects are currently under contract and are moving towards implementation.  2023- RCPP funding has opened in Centre County and focuses on Rapid Delisting Catchments. One project has been contracted through that funding in 2023. Additional projects have been identified by the new Watershed Specialist that will include stream restoration and buffer projects.  2022- Running statistics for the Partnership's implementation include 15 private properties where projects have occurred, 20,000 trees planted, 7400 ft stream restoration, 1200 ft of buffer, 1500 ft fencing, 1200 live stakes planted, and ag operation BMPs. All BMPs funded/installed by the Partnership are reported to PADEP through the funding reports. Fundraising continues including applications for ag BMPs to funded through Growing Greener, EQIP, and the 319 application noted under Action 3.2.  2021 - The Precision Conservation Partnership implemented 4 restoration projects during spring 2021 including 24.63 acres of forest buffer, 4.63 acres of herbaceous buffer, 890 linear feet of streambank fencing, and 910 linear feet of in-stream	2022: Financial budget updated according to current knowledge of anticipated construction budget need to complete rapid delisting in Centre County. The timeline was extended as well due to the anticipated pace of fundraising and realistic project implementation with current human resources.



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3.4	Fish Hatchery Nitrogen Reduction	Address nitrogen discharges associated with fish hatchery locations – amend how they are viewed in CAST, collect environmental monitoring information to confirm/refute that they are elevated nitrogen producers, plan/design/construction nitrogen-reducing treatment system	PA Fish and Boat Commission, DEP Northcentral Regional Office, local watershed group, TU, Western PA Conservancy	Countywide	2024-2025 – investigation  <del>2022 – next steps</del>	Stakeholder interest, treatment challenges	CAST insight  Hatchery operation insight	N/A	Monitoring study	N/A	2025 - CCCD and Friend of FWS staff visited the Elk Creek Fish Hatchery to determine what stream work could occur in order to reduce erosion along the streambanks. Friends of FWS submitted a CAP subaward application this year, we'll find out this winter whether this project will be funded with CAP  2024- No progress to date. In 2025, the Watershed Specialist plans to reach out to the Hatcheries to determine if there are any potential projects or current water quality data being collected.  2023- No progress to date.  2022 - Organizational connections have been made but not action to date.  2021 - A hatchery tour is being coordinated between PFBC and HRG during 2021. We will view the existing facilities and treatment methods and identify potential improvement needs during the tour.	2025: Action item changed from red to green.  2022: Extended the timeline to allow for additional time to investigate solutions.
3.5	4R Practice Education and Implementation	Transition manure management plans to nutrient management plans and incentivize implementation  Increase existing 4R practice adoption by: 3,000 acres of N Rate, 5,250 <del>2,800</del> acres of P Rate, N/P Timing and N/P Placement by 1,400 acres	4R Alliance, CBF	Priority HUC	2021-2022	Landowner interest, BMP verification (annual), CBF staff loss who had a lot of landowner relationships	Educational support	CBF grant	Cost share recommendations/equipment/software	<del>50000</del> \$10 per acre of advanced nutrient management planning per type: total cost for all is \$114,000	2025 - 4R implementation continues to occur on a farmer-driven basis. Reporting of it only occurs when the farmer works with the Conservation District on a project or if they are reviewed for a Bay inspection.  2024- 4R implementation continues to occur on a farmer-driven basis. Reporting of it only occurs when the farmer works with the Conservation District on a project or if they are reviewed for a Bay inspection.  2023 - Transitioning manure management plans to nutrient management plans is impractical for landowners as it is expensive and they require renewal every three years. This is not a priority for the Conservation District and there has been no progress to date. 4R implementation continues to occur on a farmer-driven basis. Reporting of it only occurs when the farmer works with the Conservation District on a project or if they are reviewed for a Bay inspection.  HRG has worked with the counties on methods to integrate supplement NM reporting into current workflows in the Chesapeake bay Contract, Nutrient Management Contract, current PSNT programs, and equipment rental programs. HRG also provided outreach at several events to increase adoption of 4R practices within the region.  2022 - County staff turnover led to a loss in communication regarding this action. No workshops are currently in the works. Communication required between new staff members to regain momentum.  2021 - 4R Alliance staff turnover has reduced communication with the County team. Outreach restrictions due to COVID have also made having workshops to garner landowner interest more challenging. Two workshops are currently planned be held: Late August PACD-funded Homeowners Conservation Workshop, Spring 2022 PACD-funded/Chesapeake Conservancy Partnership Plan Writing Workshop in Elk Creek	2024: Increased the goal of Core Phosphorus to increase to 5,250 acres based off reporting trends  2022:Added BMP goals to the template to be consistent with the BMP template. Goals remained the same from 2020.



2025 Phase 3 Watershed Implementation Plan (WIP) Milestone Report – CENTRE COUNTY												
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3.6	Low and no-till cover crop and tillage BMPs	Determine feasibility of having a county cost share program to enhance adoption of the annual practice  On an annual basis implement conservation tillage of <del>10,000</del> 14,300 acres and high residue/no-till of <del>24,000</del> 42,000 acres.  On an annual basis implement <del>7,000</del> 12,000 acres of traditional cover crops and <del>19,000</del> 15,000 acres of cover crops with fall nutrients.  On an annual basis implement low residue tillage of <del>8,000</del> 12,000 acres.	CCCD, Centre Co Farm Bureau	Ag land use countywide	2022 – investigation  2023 – next steps	Capacity to manage the program, landowner interest	Transect survey  Landowner education	N/A	Cost share program development  Capital RC&D Improved Data Reporting	<del>\$120,000 cost share budget per year</del>  \$90 per acre traditional per year: \$1.08M for a 3-year total of \$3.24M (incentive payment, capital RC&D) \$50 per acre fall nutrients per year: \$0.75M for 3-year total of \$2.25M  \$50,000	2025 - Through 2025 CAP Block Grant funding, CCCD continued the cover crop incentive program. 267 acres of reduced-till single species cover crops were planted, 2,925 acres of no-till single species, and 674 acres of no-till multi-species were planted for a total of 3,866 acres applied for in the third year of the program. CCCD will continue the program in 2026 and beyond as funding allows.  2024- Through 2024 CAP Block Grant funding, CCCD continued the cover crop incentive program. All acres applied for were no-till and equaled 2,745 acres in the second year of the program. CCCD will continue the program in 2025 and beyond as funding allows.  2023- Through 2023 CAP Block Grant funding, CCCD developed a pilot cover crop incentive program. All acres applied for no-till which equaled 1,650 acres in the first year. CCCD will continue this program into 2024 and beyond as funding allows.  2022 - The Conservation District is considering implementing an incentive program in 2023 if Block Grant dollars can be used for the effort.  2021 - Additional documented no-till/cover crop practices this year, not inclusive of all recently entered plans in PracticeKeeper as documented in the GG Grant-funded plans - 1,041 – No till acreage 638 – Cover crop acreage 405 – Strip crop acreage Additional no-till operations are anticipated to come on line in the coming years as a result of 2021 REAP applications.  <del>As plans are developed through the Growing Greener grant and/or verified through</del>	2025: Increased the goal for Conservation Tillage.  2024: Added a new goal of 8,000 acres of low residue tillage in 2024 to this action item.  2022:The expected timeframe was extended.  Decreased Conservation Tillage to be consistent with reporting trends and increased high residue tillage because 2020 goal was exceeded.  Increased Traditional Cover Crops because of current implementation rates, slightly decreased cover crops with fall nutrients because of increased traditional cover crops.
3.7	Implement more pasture management BMPs	Off stream watering without fencing – 1,460 acres/10 farms  Pasture Alternative Watering – 2,600 acres  Prescribed grazing – 4,000 acres (50% by reporting)  Horse pasture management – 50 acres/3 farms  Forest buffers on fenced pasture corridor – <del>365</del> 100 acres (50% by reporting)  Grass buffers on fenced pasture corridor – <del>1,127</del> 286 acres (50% by reporting)	CCCD, NRCS, Chesapeake Bay Foundation, Chesapeake Conservancy	Centre County ag lands – landowners who raise horses, dairy, beef	2025	Landowner education, BMP funding for non-buffer work, plan updates, data gathering	Landowner education  Data gathering through Bay Tech visits	CBF grant	N/A	Prescribed grazing: \$2.16M  FB Buffer with Excl: \$525,000  GB Buffer with Excl: \$137,500  Pasture Alternative Watering: \$1.3M  Off Stream Watering: \$730K  Horse Pasture Management: \$25,000	2025 - All three 2024 projects (Stine, Pighetti, E. Weaver) are completed and include rotational grazing systems, off stream watering sources, and grass or forested buffers. The K. Hall project will finish construction by the end of 2025 and will include a rotational grazing system with off stream watering sources. A project slated for 2026, R. Stoltzfoos, will include a rotational grazing system, off-stream watering, and a forested buffer.  2024- Three of the projects referenced in Action #3.1 (Stine, Pighetti, E. Weaver) are currently under construction and will include rotational grazing systems, off stream watering sources, and forested or grass buffers.  2023- The large scale project referenced in Action # 3.2 incorporated rotational grazing systems, off stream watering, forest buffers and grass buffers. A second large scale project in Walker Township, expected to finish this year, will incorporate rotational grazing, a 50 ft forested riparian buffer, and streambank fencing. A smaller project in Union Township, expected to finish this year, will implement an off-stream watering system with streambank and pasture fencing.  2022 - Phase 1 of BMP verification identified 149 potential hits for streambank exclusion fencing. This data set will allow for increased reporting of buffered acres with exclusion fencing. Further, the Conservation District is hoping to partner with Capital RC&D's grazing program professionals. A meeting is scheduled in summer/fall 2022 to discuss the opportunity.  2021 - Additional documented BMPs this year, not inclusive of all recently entered plans in PracticeKeeper - 222 – Prescribed Grazing acreage  <del>As a result, there is less pasture operation than previously reported as there</del>	2022: Lower streambank exclusion fencing BMPs to be realistic given timeline. Some BMP verification will assist in meeting the goals. Updated the financial resources needed with new budgets.

## 2025 Phase 3 Watershed Implementation Plan (WIP) Milestone Report – CENTRE COUNTY

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3.8	Riparian buffer and re-forestation BMPs (not downstream from animal activities)	Partner with Chesapeake Bay Foundation to plant 100,000 trees (portion of 500,000 trees that will be RFPed for growers)  2,500-471,292 riparian forest buffer acres  1,714 1,175 riparian grass buffer acres  8 acres – urban forest buffer  3 acres – urban tree planting – target one landowner in urbanized area  1200 25 acres – urban forest planting – target one large landowner in urbanized area	Clear Water Conservancy, CBF, watershed associations, Chesapeake Conservancy, Western PA Conservancy	Centre County	2022 – line up landowners  2023-2025 – implementation	Landowner partnerships, landowner education, volunteer acceptance of grass buffer plantings, grass buffer maintenance guide for farmers, routine site visits to confirm buffers are thriving, invasive species removal during establishment, it was recommended by their peers that Clear Water Conservancy serves as the lead site coordinator	Materials  Mapping	Budget available to be determined	Implementation – design, equipment, materials	\$2,000,000-\$3,295,000 budget	2025 - CCCD prepped educational materials for landowners that explained how and when to harvest livestockes from their own property.  Maintenance has occurred for a buffer planted in 2021. No buffers were planted in 2025. CCCD is planning to coordinate with Chesapeake Bay Foundation to reach out to landowners within the Little Marsh Creek watershed to determine which landowners are interested in planting buffers on their property.  2024- The conservation district has helped landowners plant 5,750 trees (estimated 20 acres) from the Keystone 10 Million Trees Program between the Spring of 2023 to Spring 2024. These are trees that the conservation district orders for landowners while assisting with planting plans and volunteer tree plantings. These trees were used for both riparian buffer and upland plantings, and were planted on both rural and suburban parcels. The conservation district plans to continue assisting landowners with acquiring K10 trees and planting them. 550 trees have been ordered for landowners for Fall 2024 through the K10 program. There are landowners that order trees in Centre County without assistance from the conservation district or through other organizations, which can be difficult to track. We plan to join Chesapeake Conservancy's live staking collaborative, as this is a great way to plant riparian buffers while stabilizing stream banks. Another way that the conservation district can achieve this goal is to apply for a DCNR C2P2 grant, which can help fund riparian buffers, upland tree plantings, and lawn conversion projects. State College Borough has partnered with USFW to come up with a concept plan for streambank stabilization and riparian buffer plantings as part of their PRP. The plan is to stabilize 2,500' of streambanks at Walnut Spring Park and install 35' of buffers on each side of the creek. Project is set to begin construction in 2025.  WPC was awarded approximately \$1 million dollars from a NFWF INSR Grant to fund the planting of 75 acres in the Juniata, Potomac, and West Branch Watersheds, with portions of the work planned for Centre County. The funding also includes hiring new staff to help with outreach and to start a volunteer maintenance program.  Clearwater Conservancy secured a DCNR C2P2 grant in 2022 that funded 10-acres of buffers planted in 2023 and an additional 11 acres to be planted in summer of 2024 in the Halfmoon Creek watershed and the Beaverdam Branch. They also secured an additional \$5,000 that will contribute resources to plant the buffers in the Halfmoon Creek Watershed. Clearwater also recently applied to CCCD's DC to fund a 13-acre	2025: Action item changed from yellow to green.  2024: Increased the goal of forest buffers to 2,500 acres based on annual reporting trends increasing.  2022: Reduced some of the BMP goals to be realistic given timeline. BMP verification will still play a significant role in meeting the goals.
3.9A	Wetland restoration implementation on marginal production ag land	11 35 acres	Chesapeake Conservancy, Western PA Conservancy, Penns Valley Conservation Association	Halfmoon – Bald Eagle, Beaver Branch	2023-2025	Willing landowner; appropriate siting, design, and construction for successful restoration result	Landowner outreach	N/A	Preliminary design	Assume <del>\$300,000 for land acquisition</del>  Assume <del>\$100,000</del> \$11.55 M project budget (design, permit, construction)	2025- Penns Valley Conservation Association applied for the 2026 Subaward Program for a wetland restoration project.  2024- HRG has investigated SRBC Consumptive Use Funds to implement potential projects in Centre County that would return crop fields back to wetlands.  2023- No progress to date.  2022 - Existing partners lack wetland expertise (streamside work and agricultural BMPs expertise make up the current team). Human resources capacity has limited the communication with the identified landowner. It continues to be included in the suite of BMPs that the Partners promote in the Halfmoon watershed.  2021 - Property identified in Harris Township. Next steps include scoping the project in the field and meeting with the landowner in 2022.	2022: Extended the timeline to account for the implementation of the Halfmoon WIP. Total remained the same additional BMP verification must occur.

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3.9B	Wetland restoration implementation	Identify 1 large property owner from University of Vermont restorable wetland layer to install a 350-acres-treated wetland	Wildlife for Everyone, Clear Water Conservancy, Western PA Conservancy	Priority watershed (ag or non-ag)	ID landowner (2023)  Funding (2024)  Design/ permit (2025)  Construction (2026)	WFE just finished up the Soaring Eagle wetland project, is there interest in another one? – same for Clear Water, landowner participation, permitting, funding	GIS mapping	N/A	Preliminary design	\$500,000  See 3.9A	2025- The permit has been submitted for the SRBC Consumptive Use Grant project. WPC is planning to start fundraising for the implementation phase winter of 2025. In addition, a future project with the MCWA for wetland restoration has begun its planning phase with plans to add AMD treatment systems and improve the wetlands.  2024- WPC applied for funding with SRBC's Consumptive Use Grants to design and permit a floodplain restoration and groundwater recharge project along Spring Creek. Designs and permitting are expected to be completed by end of 2024. The project has support from PFBC, SRBC, and HRG.  2023- No progress to date. Wetland restoration technical capacity continues to be a hurdle to initiate landowner outreach.  2022 - No progress made. Wetland restoration technical capacity is a hurdle to initiate landowner outreach.  2021 - Initial contact with a representative from Wildlife For Everyone was made without response. The CAP team would benefit from a partner organization taking the lead on this initiative. The schedule will need to be extended to insert the step of identifying a lead organization before or in parallel with identifying some candidate landowners.	2022: Extended the timeline to account for needing a non-County stakeholder to be the lead.

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3.10	Non-urban stream restoration	37,600 feet (7 miles) installed, 72,400 feet of verified stream restoration  Assume two project installs per year per contractor team  22,200 LF in TU planned projects	CBF, Chesapeake Conservancy, TU National, Spring Creek TU, NFWS, Western PA Conservancy, Penns Valley Conservation Association	Rapid delisting areas	2021-2022  2023-2024  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	GIS  Design/GP-1 permit	Existing grant	Design, permit, construction services	Assume \$400/LF - \$14 M for total project delivery, floodplain restoration concept, not O&M  Assume \$50/LF - \$1,110,000 for TU-lead projects	2025 - The 2025 CAP Block Grant funded an in-stream stabilization project along Bald Eagle Creek. TU designed and helped install 25 structures along the streambanks, totaling 820 linear feet.  2024- The 2024 CAP Block Grant funded a stream restoration project along Spring Creek. WPC with partnership with PAFB, CCCD, and HRG plan to finish 2,000 LF of stream restoration on Spring Creek with construction scheduled to begin in August of 2024.  2023- The 2023 CAP Block Grant funded two sub awardee stream restorations. The first, through a partnership with the Western Pennsylvania Conservancy and Spring Creek Trout Unlimited chapter restored 1,000 feet of eroding streambank and created in-stream fish habitat by installing six log-framed stone deflectors with three clusters of random boulder placement in the Spring Creek Watershed. The second was a subaward to the Spring Creek Trout Unlimited. A total of 525 linear feet of stream were addressed with mud sills and rock cross vanes to reduce erosion through bank stabilization. Fish habitat was improved through riffle enhancement and GP-1 structures. This project also occurred in the Spring Creek Watershed.  2022 - \$200,000 NFWF Grant for Park Hills Drainageway, regenerative stream conveyance, final design and permitting, construction to start late 2022/early 2023.  2021 - See Initiative 3.3 for update.	2022: The total goal remained the same. More BMP verification is needed to reverify lost acreage.
3.11	Implement more barnyard runoff control/loafing lot management/ag stormwater management	110 total acres treated. 59 acres to reach that goal.  The original goal was met in 2024. The goal has been increased to 90 acres of barnyard runoff control and 4 acres of loafing lot management.	CCCD, Chesapeake Conservancy, NRCS	Livestock farms	2021-2025	Mapping challenges, typical logistics regarding landowner buy-in and project development/funding	N/A	N/A	Consultant for program management and project delivery	<del>\$1.8 M per year, \$9 M total</del>  Barnyard Runoff Control \$250K per project, assume 1 acre per project \$5.25M in total	2025 - Projects referenced in Action #3.1 (Stine, K. Hall, Woomer, M. Hall, Grove, and Brown), include barnyard runoff control, loafing lot management, and ag stormwater management as part of the RHUA design. The proposed projects for 2026 (Liner, Darlington, Flick, Rider, Myers) will also include these components.  2024-Three of the projects referenced in Action #3.1 (Stine, K. Hall, Woomer) will include roofed HUAP facilities with associated stormwater practices. All four projects expected for 2025 (refenced in Action #3.1) will include roofed HUAP facilities as well.  2023- The large scale project referenced in Action #3.2 incorporated a 39' x 104 roofed HUAP and agricultural stormwater management. Another large scale project in Harris Township, expected to be completed this year will install a 60' x 120 roofed HUAP and stormwater management practices. Similarly, the large scale project in Walker Township, referenced in Action #3.7, will install a 50' x 168' roofed HUAP and stormwater management practices.  2022 - Phase 1 of BMP verification will identify where barnyard clusters are located and determine if they are livestock operations or poultry operations. Current pace of new BMP implementation is about 2 projects per year.  2021 - CEG and Block Grant funding are being spent on projects that support this initiative. Five projects are on schedule to be completed this year including roofed heavy use areas and manure storage BMPs.	2025: Updated performance targets to reflect the changes in the BMP goals after meeting the goals.  2022: Total goal remained the same. BMP verification is needed to reverify lost acreage.

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3.12	Animal waste management BMP implementation for livestock	8,500-11,430 AUs managed through new BMPs  Manure transport out of area- 1,300 dry tons per year.	CCCD, SCC, CEG Program (future years)	Livestock farms	2021-2025	Current capacity through NRCS and CCCD implements about 5 farms projects per year; 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 yields willing landowners	Project implementation – 2 farms/year  Project implementation – 3 farms/year	Assume \$280,000/year  Assume \$420,000/year	Design, permit, construction services	Assume 2 projects per year, \$130,000 each, \$260,000 per year, \$1.3 M total  Animal waste management system \$250,000 per project, assume 200 AUs per project \$9.25M in total	2025 - Projects referenced in Action #3.1 (Stine, K. Hall, Woomer, M. Hall, Smith, Grove, E. Weaver, R. Weaver, and Brown), include barnyard runoff control, loafing lot management, and/or ag stormwater management as part of the RHUA design. The proposed projects for 2026 (Liner, Darlington, Flick, Rider, Myers) will also include these components.  2024- All three projects referenced in Action #3.11 will also include a manure stacking structure to minimize manure-laden runoff leaving the operations. A fourth project referenced in Action #3.1 (Smith) will implement a manure stacking shed only as the operation has sufficient animal housing, but lacks any manure storage. A fifth project referenced in Action #3.1 (R. Weaver) will implement an animal mortality composting facility which will eliminated runoff and potential ground water contamination from current composting practices. All five of these projects are expected to be completed by the end of 2024 or beginning of 2025. All four projects expected for 2025 (referenced in Action #3.1) will also include manure stacking structures.  2023- The large scale project referenced in Action #3.2 incorporated a 39' x 47' roofed manure storage facility. All three large scale projects referenced in Action #3.11 include manure stacking areas.  2022 - BMP Verification Phase 1, shows the potential to report an additional 110 animal waste storage facilities currently not reported through PracticeKeeper.  2021 - CEG and Block Grant funding are being spent on the construction of projects that support this initiative. 1800 AUs are being managed by these newly installed projects including beef, dairy, horses, swine, and poultry operations.	2024: Poultry goal increased in 2024 to 5,430 AUs increasing the total goal to 11,430 AUs. Livestock goal remained the same.  2024: new goal added- manure transport out of area.  Animal waste management systems reporting increased from 2020. Kept livestock goal the same, increased poultry systems.
3.13	Mitigation Banking Pilot Project	Floodplain restoration and/or wetland restoration project that achieves future MS4 permit sediment compliance for a currently waived Township while yielding nitrogen reductions for UAJA's benefit	UAJA, Benner Township, Spring Township, Nittany Valley Joint Recreation Authority	Benner Township and/or Spring Township	Regulatory approval (2021-2022)  Design/permitting (2023)  Construction (2024-25)	Landowner participation, regulatory compliance (MS4 – sediment and WWTP NPDES – nitrogen), funding for construction, recreational opportunity based on project location and public accessibility	Long term operation and maintenance  Municipal/landowner coordination	N/A	Design, permit, construction services	Assume 2500 LF project, \$750,000 project budget	2022 - no update.  2021 - This initiative is on hold pending updates from DEP to the mitigation banking process, regulatory changes to Chapter 105, and the next MS4 permit requirements for municipalities.	2022: Since the different triggers identified in 2021 have not moved forward, there is little opportunity to advance this before 2025.
3.14	Runoff Reduction Performance Standard and Storm Water Treatment Performance Standard Implementation	Implement existing ordinances at local municipal level  Catalogue existing BMPs that fit into this category and newly built ones  Runoff Reduction - 1,640 acres treated, stormwater treatment - 341 acres treated.	CCPC, CCCD, developing municipalities	County-wide	Ongoing  2021-2025	Coordination/training for municipal staff, FieldDoc batch opportunity, non-MS4 engagement (what’s in it for them?), difficulty obtaining past information (MS4s typically have databases from 2003-present)	Reporting platform	N/A	Training  Municipal Data Input	N/A  Assume \$5000 administrative cost per municipality per year and 7 developing municipalities à \$35,000 per year  \$1.9 M overall project budget	2025- The Stormwater Workgroup within the Spring Creek Watershed Commission plans to start investigating this once the new MS4 permit has been announced.  2024- No update  2023- No additional progress to date due to focus on MS4-credit projects by MS4s and lack of capacity to map Chapter 102-related existing runoff rate mitigation BMPs.  2022 - urban BMP cataloguing is started in this year's BMP Verification program. Should it continue to be funded, additional watersheds and BMP types will be added to the program.  2021 - This initiative is on hold until FieldDoc is running for urban BMP data collection.	2022: Added BMP goals to the template to be consistent with the BMP template. Goals remained the same from 2020.

2025 Phase 3 Watershed Implementation Plan (WIP) Milestone Report – CENTRE COUNTY												
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3.15	MS4-related Chesapeake Bay Pollutant Reduction Plan Implementation	Plan implementation by end of current permit term  Implement bioretention (7- <del>AT</del> 18 acres), buffers, stream restoration (4,800 LF), street sweeping (151 miles), etc.	Harris Township, Patton Township, College Township, State College Borough, Ferguson Township	Joint urbanized planning area	2025	Municipal capacity to implement plans (technical, financial)	Municipal engineer design/permit, construction readiness	Unknown	N/A	\$4.5 M overall project budget	2025 - MS4s continue to implement their joint PRP.  2024 - MS4s continue to implement their joint PRP.  2023 - MS4s continue to implement their joint PRP.  2022 - MS4s continue to implement their joint PRP.  2021 - The municipalities are on track regarding implementing the joint Pollutant Reduction Plan. As BMPs are implemented, they will be reported through the MS4	2025: The goal for bioretention's has been increased to 18 acres.  2022: Updated the expected timeline in accordance with the MS4 Partners' permit deadline.  Added BMP goals to the template to be consistent with the BMP template. Goals remained the same from 2020.
3.16	Conservation Landscape/Turf to Meadow Conversion/Watershed Forestry Initiative	Promote new program and enable one large tract landowners’ participation (20 acres of conversion)	CCPC, DCNR, Western PA Conservancy, Clear Water Conservancy, Penn State Ag/Turf Program	Developed areas in Centre County municipalities	2023-2025	Landowner education and acceptance	Planting plan assistance	N/A	N/A	<del>\$5,000 per acre (forest)</del> , \$2,500 per acre (meadow) → \$1050,000 (budget for all forest)	2025 - The conservation landscaping projects at Willowbank and Woodward have been bid out and are expected to be installed this fall. Three conservation landscaping projects (Calvary Church, Orchard Park, and Holmes-Foster Park) are anticipated to be installed in 2026. Numerous applications for conservation landscaping projects are being submitted this year for public and private property. We are aiming to get more residential landowners involved in 2026-2027 through the meadow seed mix giveaway using the Watershed Specialist Mini Grant.  2024- Centre County Conservation District's Conservation Landscaping Program is moving forward in 2024-2025. There will be two projects out for bid in the Fall of 2024 and completed in the Spring of 2025, including a project at Woodward Camp and one at the Centre County Willowbank building. These locations were chosen due to their high visibility as well as the willingness from the landowners and maintenance staff. These projects will increase pollinator habitat while reducing stormwater runoff entering nearby streams. Planning has begun for 2025-2026 as well, including discussions with the State College Borough regarding projects in their local parks. Some of these areas were identified by the TREES 574 class at Penn State as high priority areas for lawn conversion projects within the Spring Creek watershed.  2023- CCCD is investigating a pilot Conservation Landscape Program in Centre County. They are meeting with neighboring counties who have implemented similar programs and determining the feasibility of such a program in 2024.  2022 - no update.  2021 – Consistent DCNR Conservation Landscaping program funding is needed for the County to promote the opportunity and enable our partners to take the lead on a large-scale project.	2022: Updated the expected timeline since the approach is included in the new State budget.
3.17	Impervious surface reduction project	Identify a blighted/flood-prone area that could be converted to a park (8-acre area)	CCPC, CDBG-eligible municipalities	Centre County Boroughs	<del>ID landowner (2021)</del>  <del>Funding (2022)</del>  <del>Design/ permit (2023-2024)</del>  <del>Construction (2025)</del>	<del>Lack of local interest, property purchase/donation, suggested to explore below South Hills Plaza, streets perpendicular to Easterly/Westerly Parkway</del>	Mapping	Available budget to be determined	Design, permit, construction	\$7,000,000	2022 - No progress.  2021 - No progress has been made to date due to team capacity and a lack of need for MS4 credit. It is also not a high priority due to low nitrogen reduction potential and high anticipated capital cost.	2022: Not a high priority and MS4s don't need it for Joint PRP implementation.

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3.18	Continue dirt and gravel road program	200,000 feet overall restored through past projects and future projects	CCCD	Countywide	2025	Continue D&G Road program funding	Education, technical assistance, project oversight	\$175,000 per year	N/A	N/A	<div>2025: Dirt and Gravel: Schwab Town Rd, 870 ft Greens Rub Rd, 2,283 ft Shunk Rd, 485 ft Shunk Rd Ph 2, 1,900 ft  Low Volume: Richner Hollow Rd, 6019 ft Fishburn Hill Rd, 2,353 ft Middle Rd, 2,035 ft Race Alley, 1,198 ft  2024- Dirt and Gravel: Sawmill Road, 2498 ft. Schwabtown Road, 867 ft. Shunk Rd., 145 Ft. Shangri Lane, 1668 ft.  Low Volume: Richner Hollow Road, 5970 ft. West Walnut St., 99 ft. Race Alley, 1092 ft.  2023- 2 DGR projects complete: Howard Township - Schwab Town Road Phase II: Approx. 590 LF, Total Roadway Project Length: Approx. 1,561 feet (Phase III planned for 2024-2025); Snow Shoe Township – Black Bear Road: Approx. 1,750 LF.  2 LVR projects complete: Potter Township - Strawberry Hill Road: Approx. 2,087 LF; Rush Township – Richard Street Spur: Approx.. 200 LF.  2022 - Nearly 11,500 feet of roadway will be improved through the DGLVR program in 2022. Another 8,300 feet of roadway projects are planned for 2023 as of now.</div>	



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3.19	Operation and Maintenance Performance	Cultivate a partnership(s) with volunteer groups or contractors who we can direct landowners to who have interest in assistance with O&M of practices that we facilitate	Volunteer group, contractor	Countywide	2023-2025	Volunteer training, liability, materials/equipment funding	Technical guidance  Volunteer maintenance labor	N/A	N/A	N/A	<p>2025- ClearWater has an active base of volunteers including the Streamside Stewards, Native Garden volunteers, and our Land Stewards that monitor our easement properties. I have been hoping to either help other groups form/join the Streamside Steward volunteer program as some folks have volunteers while others need volunteer help. I think this is a sustainable model including training and data collection related to the work that would help everyone with mechanical buffer maintenance in the area. Since our conversation with the commission I have not at this time moved forward with piloting this idea of “Regional Buffer Stewardship Volunteer Network”. However, I do think this is a feasible project and I would still like to pilot it with local groups in the area and eventually regionally to support the success of partners restoration projects.</p> <p>2024- No progress to date.</p> <p>2023- HRG met with Back County Hunters and Anglers and made great connections. PA Regional director is from State College and wants to be more engaged in projects. If a project is located on a Public Access property, BHA will support the project through social media outreach and provide member volunteer support for plantings. They are also interested in providing maintenance on riparian buffers or CREP on public access areas for farmers who don’t have time.</p> <p>2022 - Project partners are recognizing that maintenance budget needs to be included in funding applications. A Riparian Rangers team could be formulated in the future, pending Alliance for the Bay capacity.</p> <p>2021 - In 2022, discuss the need with Native Creations, US Fish and Wildlife Partnership for Fish and Wildlife, and Clearwater Conservancy to see what model has worked for them and if it can be scaled.</p>	<p>2025: Action item changed from red to yellow.</p> <p>2022: Extended the timeline because this is still an important piece of the overall BMP installation strategy.</p>
3.20A	Private Funding	Identify some private funding sources that may be able to supplement public funding sources/existing sources utilized for stakeholders	Existing project implementer networks, Ag Choice Farm Credit?	Centre County	2023-2025	Need to expand network, educational aspect of less common funders, logistics of utilizing unproven funding sources (or lesser known)	Financial services	N/A	N/A	N/A	<p>2025- No progress to date.</p> <p>2024- No progress to date.</p> <p>2023 - FFAR and Walton Family Foundation opportunities did not proceed. No progress to report from County-led activities. Chesapeake Conservancy continues to demonstrate project value to private foundations and those dollars eventually are invested on farms in the Rapid Delisting watersheds.</p> <p>2022 - HRG and LFT are exploring potential opportunities to apply to the Foundation for Food &amp; 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 Centre County to increase the adoption of Conservation Practices.</p> <p>2021 - As a result of a successful application submitted by the PADEP Chesapeake Bay Office, the CAP Team worked with Millersville University through the Governor's Office of Performance Through Excellence to identify private entities who may have interest in investing in local clean water projects. The student team also developed a flyer that we can use when performing initial outreach with the identified entities.</p>	<p>2025: Action item changed to yellow.</p> <p>2022: Extended the timeline because this is still an important piece of the overall BMP installation strategy.</p>

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3.20B	Public/Non-profit Funding	Fill-out our public/non-profit source list	Central PA Conservancy, Western PA Conservancy, Natural Lands Trust, Chesapeake Bay Foundation, Hamer Foundation	Centre County	2024-2025	Partners use similar funding sources, becoming more competitive	Financial services	N/A	N/A	N/A	<p>2025- The list continues to be static. Our group continues to analyze new funding programs coming from State and Federal sources and will revisit this list for match/partner opportunities.</p> <p>2024-No progress to date.</p> <p>2023- The list continues to be static. Our group continues to analyze new funding programs coming from State and Federal sources and will revisit this list for match/partner opportunities.</p> <p>2022 - The list of potential funding partners was completed and is now static. As our group analyzes the new funding programs coming from State and Federal sources, we'll revisit this list for match/partner opportunities.</p> <p>2021 - We are on track to complete the list of potential funding partners during 2021.</p>	2022: Extended the timeline to account for new BIL funding being distributed through State and Federal programs through 2026.
3.20C	Public/private Farm BMP sponsorship program	Utilize REAP program to leverage funding, sponsor farmers who perform BMPs and pay them cash from tax rebates that corporation receives from funding the program	SCC, The Nature Conservancy, Chesapeake Bay Foundation, PennAg	Centre County	2024-2025	Corporate interest,	Initial coordination	N/A	N/A	N/A	<p>2025- No progress. See progress under 3.20B as this is a companion initiative.</p> <p>2024- No progress to date.</p> <p>2023 - No progress. See progress under 3.20B as this is a companion initiative.</p> <p>2022 - No progress. See progress under 3.20B as this is a companion initiative.</p> <p>2021 - See Initiative 3.20A for progress as this is a companion initiative. Rather than having private donors provide funding to Centre County, the goal of the Millersville University project was to suggest to companies to sign up to be a REAP sponsor.</p>	2022: Extended the timeline to account for new BIL funding being distributed through State and Federal programs through 2026.

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Priority Initiative 4: Research, Education, and Training												
4.1A	Incorporate existing water quality monitoring data into Chesapeake Data Explorer/ Chesapeake Monitoring Cooperative database	Successful data input/acceptance by ALLARM program by end of 2021	ALLARM, Keystone Water Resources Center – Spring Creek, Senior Environmental Corps, PSU, watershed associations	Countywide	2021-2025	Data precision, QAQC, opportunity to educate landowners about local stream health and what they can do about it	Data QAQC and training  Data Input	N/A	N/A	N/A	2025 - No headway as been made in 2025 regarding where, when, and how to submit water quality data within Centre County.  2024- The Bureau of Watershed Restoration and Nonpoint Source Management created a survey for conservation districts to fill out related to water quality monitoring. The survey asked where which watersheds were being monitored, which parameters were being measured, and if the data is being submitted to Chesapeake Data Explorer or the Chesapeake Monitoring Cooperative database. There is still no mechanism in place for submitting water quality data to these databases in Centre County.  2023- Capacity changes with the Coordinator and Conservation Districts has pushed the    convening of the Watershed Specialists. We will reevaluate in 2024 if this should be a priority at the County level or if it should be scaled to the State or Federal level.  2022 - ALLARM is in the process of developing citizen scientist monitoring data collection protocols to assist with stream health data collection. Should the protocol be approved, it will be shared with all Counties.  2021 - ALLARM worked with local partners to obtain data, clean and organize it to Chesapeake Monitoring Cooperative standards, geo-reference the data, and upload the data to the Chesapeake Data Explorer.	2025: Action item changed from green to yellow.  2022: Extended the timeline as the concept continues to evolve and improve.
4.1B	Initiate additional water quality monitoring sites that promote long-term trend evaluation at key locations in Centre County	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	ALLARM, Keystone Water Resources Center – Spring Creek, Senior Environmental Corps, PSU, local watershed associations	To be determined	2023-2025	Land access, expanded volunteer need, equipment/materials budget, Consistent data collection, QAQC continuation  Consideration to expand the Keystone Water Resources Center to cover places like Bald Eagle, Buffalo Run, etc. to get a continual basis	\$30,000 intern salary budget  QAQC	N/A	Sample Collection for new sites identified through CAP implementation	\$10,000 EQUIPMENT	2025 - Monthly Halfmoon water sampling efforts with CBF continue to occur. Monthly sampling in Beech Creek with TU is still occurring.  2024- The Centre County Senior Environmental Corps (CCPASEC)has many sampling locations, including sites on Buffalo Run and Bald Eagle Creek. This includes physical, chemical, and biological data collection. There is potential to increase the amount of sampling locations that this group has. Monthly water quality sampling is continuing to be conducted in the Halfmoon Creek and Beech Creek watersheds. Watershed Specialist can focus more on potential gaps in sampling, as well as QA/QC and if these datasets can be entered into the Chesapeake Data Explorer or the Chesapeake Monitoring Cooperative databases.  2022:In the fall of 2022, HRG will convene the Watershed Specialist to identify the largest "gaps" of water quality monitoring data, develop strategies to comprehensively incorporate new data to support CAP efforts. Further, the LandscapeU project that analyzed Centre County data sources/status will be included in a County-specific strategy to expand monitoring.  2021 - See 4.1A progress	2022: Extended the timeline as the concept continues to evolve and improve.

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4.2	Enhance the capacity of local watershed associations for short-term success and long-term sustainability	Share each other’s social media content  When developing water quality projects, include them in the scoping/funding process  When we utilize/obtain funding for outreach, reserve some for partner promotional items (hats, shirts, etc.)  Encourage project implementation on the watershed level so that these partners enhance their relationships with non-peers with a co-benefit of diversifying their membership	Spring Creek Watershed Commission, Bald Eagle Watershed Association, Spring Creek Chapter of Trout Unlimited, National Trout Unlimited, Penns Valley Conservation Association, Moshannon Creek Watershed Association	Countywide	Ongoing	Continued coordination among a lot of active groups, keep project leads list active so that watershed approach to grant applications can be developed well in advance of submittal deadlines, see if Spring Creek Watershed Commission could serve as the coordinating party	Social media shares  Project development support	Limited match	N/A	\$5000 per organization to produce promotional materials (hats, shirts, stickers) for members	2025 - Watershed Specialist attends watershed association monthly meetings, participates in board meetings for Keystone Water Resources Center, assists with landowner connections and outreach, advertises conservation project opportunities on social media, gives educational presentations, tables at local public events, and helps with writing newsletter articles for CCCD. CCCD partakes in regular meetings and educational outreach with SCWC, PVCA, MCWA, USFWS, and TU.  2024- Watershed Specialist attends watershed association monthly meetings, assists with landowner connections and outreach, shares social media content for watershed associations that have such materials, gives educational presentations, and helps with article writing and other agenda items. CCCD have helped with the plans and foundation for the Spring Creek Watershed Commission's Conservation and Stewardship Committee. This committee has the goal to increase the commission's capacity for outreach, event planning, and grant writing. The Bald Eagle Creek Watershed Association is no longer active. We currently assist the Moshannon Creek Watershed Association with water quality sampling efforts as well as education and outreach. CCCD has assisted the Penns Valley Conservation Association with project planning and landowner outreach. We are currently helping with National Trout Unlimited' s AMD water quality monitoring and culvert surveys in the Beech Creek watershed, as well as attending the quarterly Beech Creek workgroup meetings. We have assisted with the Keystone Resource Center's educational water quality monitoring field trips.  2023- The CCCD has hired a new Watershed Specialist who will add capacity to this initiative. HRG has also reconnected with the Spring Creek Watershed Commission and is helping build capacity with that watershed association to advance their project implementation goals.  2022 - County staff turnover resulted in a loss of communication between certain county staff and local watershed associations. Those conversations have begun again. Social media content will continue to be shared and relationship between	2024: Changed from red to green.
4.3	<del>Farm decision maker trips to showcase BMPs that work</del>	<del>Two trips per year, increase participation by 10% each year</del>	<del>CBF, CCCD, NRCS, County Farm Bureau</del>	<del>Centre County</del>	<del>Fall and Spring of each year</del>	<del>Promotion to increase participation each year, expand logistics/# of local and Bay trips to allow for increased participation, consider alternative transportation options to canoes if it helps to scale up the initiative</del>	<del>N/A</del>	<del>Trip coordination and field facilitation</del>	<del>N/A</del>	<del>\$2000 per year to expand resources</del>	2022 - This program has not picked up post-COVID and needs a supplemental funding source from CBF. Educational trips will continue to be a communications strategy.  2021 - Initial steps have been taken to determine if a trip can be scheduled for Fall 2021. COVID restrictions condensed the amount of time in 2021 where the trips could realistically occur.	2022: Focus on the communications strategy so that we're more strategic about our human/financial resources.