

Phase 3 Watershed Implementation Plan (WIP) Annual Progress Update and Two-Year Milestones Report – Clinton County									Initiative Completed		Initiative Added		
Green - action has been completed or is moving forward as planned Yellow - action has encountered minor obstacles Red - action has not been taken or has encountered a serious barrier									Highlight changes for 2024-2025 milestone period				
Action # Green Yellow Red	Description	Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources Available		Resources Needed		Annual Progress to Date (2021 + 2022+2023)	Reason for Change to Action Item (2024-2025 milestone period)	
							Technical	Financial	Technical	Financial			
Priority Initiative 1:													
1.1	Promote, Support, and Implement Riparian BMPs	Promote Riparian Buffers in education and outreach initiatives Find 3 promotional Forest Buffer Plantings in visible locations to promote education of buffers – work with media for promotion Implement Forest Buffers, Implement Forest Buffers with Streamside Exclusion Fencing, Implement Grassed Waterways, Implement Grassed Waterways with Exclusion Fencing 10-15 acres a year	Army Corps of Engineers, PFBC, North Central PA Conservancy, NFWF, TU, NRCS, Chesapeake Conservancy, DCNR Bureau of Forestry, Clinton CD, PSU Turf Management Group, Amish Greenhouse	County-wide Fishing Creek and Nittany Valley Watershed West Branch of Susquehanna (Buffer opportunities)	2022-2027	Farmer resistance – seen as “loss of cropland”; failure of landowners to buy-in because aesthetics and access often valued more than clean water; far too often grants come with a “match” requirement; currently little or no coordination locally between NRCS and Conservation District; Current District workload limits opportunities. District would require a second watershed specialist and an engineer dedicated to this work full-time. Must have strong and continuous watershed association participation to include “boots-on-the-ground, door-knocking campaign” as well as stream walks to identify both willing landowners and potential sites. Flash grazing must be allowed with buffer installation The funding program (state grant) must include a 5-10-year maintenance program to establish buffers along with incentive program \$4K minimum per acre payment Promote multifunctional buffers and the benefits of these buffers, work with watershed groups, neighbors and business to promote use of buffers	District's two (2) Agricultural Resource Conservationists and District Watershed Specialist for limited landowner outreach, educational support, mapping, and implementation	Chesa-peake Bay Technician Funding, Watershed Specialist funding, Sufficient funding to plant 5 acres of riparian buffer.	One additional watershed specialist, one engineer and one grant writer.	\$150,000 per year for 5 years (staffing) \$500,000 for trees, grass seed, fencing, annual maintenance	2025 - There were 2 plantings that occurred in the county and were completed by DCNR. CCCD is interested in doing more projects in the future to fulfill this initiative's goal. The North Central PA Conservancy actively implements riparian buffers within their properties as well. 2024 - Riparian plantings have been occurring this year and are being proposed for inclusion for CAP funding in 2025. There was a total of 50 trees planted within 2024. There were 3 CAP funded projects implemented, 1 DCNR project implemented, and 1 C2P2 project implemented within the 2024 year. 2023 - Riparian BMPs have been implemented this year on multiple sites. (1) Conservation teamed with PA Fish and Boat to build a .45 acre forested riparian buffer along Fishing Creek. The nearest address is 380 Main Street Mill Hall. (2) Clinton County teamed with PP&L and US Fish and Wildlife to plant 400 trees over 1.10 acres along Fishing Creek to form a riparian buffer.	*add new 2023 progress above the existing 2021 and 2022 progress. Date each entry	
1.2	Promote, Support, and Implement new Forest and Meadow-land	Promote the importance of trees and pollinators in education and outreach initiatives annually by conducting a pollinator workshop. Create a certification program or partner with PSU Ext. to certify properties as pollinator/ conservation friendly. Use this program to record acreages of lawn/turf to wood/meadow conversion Work with commercial industries, public lands and homeowners to implement conservation landscaping Convert 5 acres of turf/grass to forest Convert 15 acres of turf/grass to meadow/pollinator habitat. NOTE: Numbers could be doubled or possibly tripled if identified resources needed are funded.	Clinton County CD, NRCS, DCNR, PSU Ext., Lock Haven City Authority	County-wide County property (Piper Building), golf courses, schools, LHU, McElhat-tan Industrial Park.	2022-2027	Failure of landowners to buy-in due to aesthetics and access often being valued more than clean water. Far too often grants come with a “match” requirement; Existing zoning and weed ordinances can be a challenge to implementation Audubon Program for golf courses	District Watershed Specialist Lock Haven City Authority	Watershed Specialist funding, TBD	One full time grant writer.	\$40,000 per year for 5 years (staffing) \$150,000 for 15 acres forest. \$50,000 for perennial pollinator seed sufficient to seed 45 acres of pollinator habitat.	2025 - The county promotes this but does not have a specific program certification. PSU Extension has opportunities for certifications that landowners can apply to as interested. There was 1,045 native trees sold at the CD native plant sale in 2025 for various planting sites around the county. The Long Spring Growing Greener Grant installed planting of 20 acres of meadowland and native grasses. 2024 - Education workshops have been held to help promote this effort. Meadowland and forest land conversion is occurring within the County through the DCNR program. The District held a Native Tree Sale in 2024, to promote tree planting. A total of 2,664 trees were sold at the annual sale. The District is planning to partner with Penn State Master Gardeners program to offer trees/herbs/plants in 2025. 2023 - Education and outreach toward new forest and meadow land have been occurring with landowners who contact the district although a program has not been established for these efforts. The District is applying for a PACD mini grant for to undertake a lawn conversion (to Meadow) in concert with DCNR staff.		

1.3	Implement Stream Restoration Projects	Inventory/Install 6,000 linear feet of streambank restoration, floodplain connection, and bank stabilization Improve habitat for fish and species of special concern.	Clinton CD, NRCS, NPC, PFBC, TU, KCWA, SVWA	County-wide Stream Restoration (Queen's Run, Kettle Creek, Fishing Creek)	2021-2027	Failure of landowners to buy-in due to aesthetics and access often being valued more than clean water. Far too often grants come with a "match" requirement. Streambank stabilization (which is a significant source of erosion) does not receive credit in the Chesapeake Bay Model, recommended to revise crediting. Must have strong and continuous watershed association participation to include "boots-on-the-ground, door-knocking campaign" as well as stream walks to identify both willing landowners and potential sites.	District Watershed Specialist.	Watershed Specialist funding.	Landowner Outreach Educational support Design & Implementation Grant Writing and Technical Assistance	\$350,000 NOTE: based upon two recent stabilization projects, cost per linear foot of streambank restored is \$100 to \$120. Expectation is significant economy of scale and lower mobilization and demobilization would be achieved with a number of larger-scale projects.	2025 - Projects completed include Long Run (220 ft), Long Spring (600ft), Queens Run (330ft), Delucca (70ft), and Tylersville (220ft) by the CD. Other efforts throughout the county are ongoing by Trout Unlimited on oxbow with approximately 5-6 miles of streams. The CD has many landowners that reach out for technical assistance and then complete the work on their own. 2024 - Stream restoration projects have been installed in 2024 through the utilization of CAP funds, including the Fishing Creek project. The District is planning to meet with landowners in 2025, to discuss stream restoration projects that are needed after a supercell compromised many landowners streams. 2023 - Stream restoration projects have been completed and are ongoing within the County on the Fishing Creek. (1) Location: Mill Hall Borough. More than 1,400 feet of streambank stabilized using 4 log-framed stone deflectors, 350 linear feet of modified mudsill, and 5 log faced stone deflectors (2) Location: Stonehouse Road in Porter Twp. Project stabilized approximately 350' of highly eroding stream bank and the use of modified mudsills.	
1.4	Implement Wetland Restoration	Identify/inventory/Implement wetlands on marginal ag lands, and other suitable sites (6 acres)	NRCS, Clinton CD	County-wide	2021-2027	Landowner buy-in, staff time, funding.	District Watershed Specialist - Landowner Outreach and support. Landowner Outreach; Educational support	Watershed Specialist funding.	Engineering, wetlands delineation, design services	\$60,000 USDA pays up to 75 percent of the easement value and up to 75 percent of the restoration costs via Restoration Cost-Share Agreement.	2025 - A Growing Greener Grant was applied for in 2025 to create wetland and restore floodplain acreage within the Fishing Creek Watershed. 2024 - The Summer Mountain Road project is under discussion for potential wetland creation and habitat enhancement. A meeting with USFWS is being held to discuss feasibility of the site. 2023 - Wetland restoration was applied for funding through the Growing Greener grant for creation and expansion of an existing complex in the Pine Creek Watershed.	
1.5	Fishing Creek/ Bull Run WIP	Create WIP for Fishing Creek/Bull Run Watershed	TU, Clinton CD, USGS	Fishing Creek/Bull Run Watershed	2022-2025	Grant funds have already been received.	District Watershed Specialist - Landowner Outreach and support. Data collection and Final report	Watershed Specialist funding. 319 grant \$96,000		2024 - This implementation plan is currently underway. TU implemented a Chop and Drop on Trout Run in 2024 that added 100 new chop/drop structures for habitat along 36,590 ft of stream. This project reduced 9,360 lbs. of Sediment, 10.98 lbs. of Nitrogen, and 5.06 lbs. of Phosphorus. 2023 - This watershed implementation plan is underway in the development process.	2025 - The Fishing Creek and Bull Run WIP was completed in partnership with Trout Unlimited and is now in the approval process with DEP.	
1.5A	Evaluation and Assessment of impaired and degraded stream reaches	Evaluate and assess stream reaches within the County that have impaired status or have a history of degradation to improve overall watershed health and water quality. Each reach will have its own priority and plan assigned, such as monitoring, WIP creation, delisting approaches, or grant application pursuits.	TU, Clinton CD, Chesapeake Conservancy, USGS, Game Commission	County-wide	2025-2027	Grant funding may need to be obtained for preliminary research or WIP development	District Watershed Specialist - Landowner Outreach and Support. Data Collection and Final Reporting	Watershed Specialist funding.	Grant writing, partnership creation, and WIP development	2025 - Multiple reaches of streams have been identified as resources to implement assessment, monitoring, and funding alignment for overall watercourse and watershed health improvements. Partnerships are being established to work toward this effort.	2025 - New initiative.	

1.6	Begin Implementation of Beech Creek assessment/Restoration Plan	Identify first steps needed to begin AMD remediation and stream restoration and formulate a cost for those steps (project scoping) Conduct a series (n=3) town hall events to help with the re-formation of the Beech Creek Watershed Association and to increase membership. Produce a series of informational brochures.	Clinton County CD, TU, PFBC, BCWA, CHP	Beech Creek Watershed	2025+	2025+ Watershed association is currently inactive. Funding: The total scope and scale of the project is expected to exceed \$10M. Landowner and stakeholder expectations (remediated in a short time frame). Current District staffing levels inadequate.	District Watershed Specialist - Landowner Outreach and support. Technical assistance, potential funding, legislative outreach	Watershed Specialist funding.	One additional watershed specialist, one engineer and one grant writer.	\$150,000 per year for 5 years (staffing)	2025 - The AMD workgroup has identified three new AMD sources within the County that are being evaluated for treatment potential. A BAMR AMD grant will be prioritized for these locations once further information is gathered. 2024 - The AMD workgroup continues to hold meetings to identify projects and align projects with potential funding sources. The AMD workgroup meets every quarter, and recently added Centre County into the workgroup. AMD workgroup completed data collection in 2024 and identified areas that are in need of restoration within Beech Creek watershed. The workgroup produced an informational brochure and has met with the township to get a restoration plan up and running. The AMD workgroup will continue into 2025. 2023 - The District has created an AMD workgroup at the request of the Clinton County Commissioners and PA Fish and Boat Commission. Multiple group meetings have occurred and included involvement from Larson Design Group, Western Pennsylvania Coalition for Abandoned Mine Reclamation, Lock Haven University, DEP, PA Fish and Boat Commission, DCNR, Trout Unlimited local and national chapters, Centre County CD, and local and state representatives. A subcommittee has been created for the Beech Creek watershed to work towards funding to abate AMD and restore Beech Creek. Trout Unlimited has initiated water sampling via their technical assistance program and water sampling has identified that Sandy Run is responsible for nearly all of the acidity in Beech Creek at the Kato Bridge, and nearly half of the total acidity measured downstream in the town of Monument.	
1.10	Continue Dirt & Gravel/Low Volume Road Program	Continue working with local municipalities to address erosion and sediment management associated with poor drainage, undersized culverts, etc., on the County's 229 miles of dirt, gravel and low volume roads. Undertake outreach/education to each of the County's remaining non-ESM-certified municipalities in hopes of getting them certified and, thereby, making DGLVR funding available to them.	Clinton County CD	County-wide	2022 - 2027	Repeated outreach attempts to non-ESM-certified municipalities have been unsuccessful. Not all ESM-certified municipalities actively pursue funding. A known reliable funding stream (DFGLVR) is available and has been secured for the foreseeable future.	Clinton County CD Roads Program Coord. Outreach and Technical Support	\$225,000 annually		2025 - There were 5 projects completed in 2025 which resulted in 7,591.94 feet. 2024 - The CCCD DGLVR program implemented 4 new projects this year. Three projects for Dirt and Gravel and one Low Volume Road. The District received 14 applications for consideration in 2025. 2023 - DGLVR program is continuing to implement roadway repairs and maintenance throughout the county as needed.		
1.11	Enhance Capacity of watershed organizations and other conservation-based non-profits in the county	Continue to provide watershed support grants to watershed associations and focus those grants on "projects" that impact CAP. Include organizations in on conservation work, monitoring, education/outreach, championing and demonstrating within their trusted communities Project Showcases on digital media, CD newsletter, and television	SVWA, KCWA, Cleanscapes, Local TU Chapters	County-wide	2022-2027	Watershed Association member recruitment is challenging.	Clinton County CD Watershed Specialist - Outreach and Education	\$6,000 annually		2025 - Project partnership is growing throughout the County and Kettle Creek watershed association is actively looking for more projects. Cleanscapes completed township cleanups this year and TU held a local cleanup. Outreach is occurring however there is always room for improvement and growth. 2024 - Support and assistance to the County Watershed organizations is ongoing although there is a need to improve these partnerships to ensure assistance and support is provided where it is needed. 2023 - This action item has been under discussion on how to best achieve this effort and gain support from outside organizations. Subcommittees have been established to enhance overall county capacity to increase project roll out and service. The Conservation District has assisted Sugar Valley Watershed Association in identifying a project on campground road to install an Ag-crossing, plant a riparian forest buffer, and convert ag land into meadow. Funding for the project has been secured.		
Priority Initiative 2:												
2.1A	Create a multi-municipal planning/zoning agency for shared services. This entity would be staffed with trained providers of zoning, permitting, flood plain permitting, and stormwater plan reviews.	Steps: Consultant-led feasibility analysis to identify how many municipalities will participate, what services will be provided and a funding structure; enter a multi-municipal agreement wherein municipalities turn over their zoning and permitting powers to this entity.	County Planning would coordinate and oversee startup. Each member municipality would retain oversight duties for operations within their municipality, perhaps via governing board.	19 or more municipalities might have interest.	2022-2027	Resistance to outside control of local development; multiplicity of local ordinances; loss of jobs for local zoning officers. Limitation of planning agency role to only recommend approval. Elected officials will still have decision making authority and could act independent of planning agency recommendation.	Research of models of other regional planning agencies; survey all county municipal ties to gauge participation. Survey will be sent out in 2022.	In-kind effort	Feasibility analysis; multi-municipal cooperative agreement; training for all involved parties; sustainability plan; consultant to guide the process	Startup costs; ongoing operating costs; amounts need to be determined by feasibility analysis	2025 - The Clinton County Planning Commission has determined that aspects of this initiative are worth working toward to ease municipal burden. Some things have consolidated with flood regulations including PEMA and FEMA. CCCD is working with the county consolidation and are actively pursuing zoning officers for 6-7 municipalities. 2024 - This initiative is no longer a priority. 2023 - This is still of priority although a funding source dedicated to pursue this project has not been secured.	

2.1B	Update County Subdivision and Land Development Ordinance. Goal: Compliance of development to updated and improved stormwater BMPs.	Steps: Obtain a consultant to guide the update process, adopt the new ordinance and enforce it.	County Planning	15 municipalities covered under county ordinance	2021-2027	Lack of county funding	Research of other recent rural PA SALDOs; outreach and coordination		Expertise for ordinance development	\$30-35k for ordinance preparation	2025 - This was adopted in the Spring, and is on the planning website. The goals of "compliance of development to updated and improved stormwater BMPs" are being supported by this adoption. 2024 - Action is being revisited by all appropriate partnerships to complete this effort. It is still of priority to the County; however, timing constraints are a problem. 2023 - This action item is under discussion and needs a dedicated funding source secured before completion.	
2.1C	Prioritize Act 167 planning. Develop County Act 167 Stormwater Management Plan that includes updated information and modeling for every County watershed. Implementation required by Act 167 will result in each municipality having a current stormwater ordinance within 6 months of plan approval. Develop a model municipal stormwater ordinance for Clinton County that explicitly defines water quality goals, implementation requirements, buffer extents, and supports other initiatives in the County CAP.	Steps: Seek funding to cover the cost of the full study of every county watershed. Conduct the studies, ensure compliance with the plans during stormwater reviews.	County Planning to lead the effort; Conservation District and municipalities to participate and provide guidance; engineers, solicitors, and community stakeholders to provide input	Countywide	2023-2027	High cost and lack of funding. (DEP does not currently provide funding for Act 167 stormwater management plans.) Educating municipalities and promoting their enactment of the model. Given greater challenges of going through the Act 167 Planning process first, a model SWM ordinance is a higher short-term priority.	knowledge, capacity for outreach and coordination		Local planning coordination, expertise for plan development by consultant Municipal buy-in.	Funding for plan development by consultant Municipal buy-in.	2025 - Clinton County Planning Commission has interest in pursuing this idea and is slowly making movement toward plan updates. DEP Act 167 Funding will likely be applied for in the coming years to complete this effort. 2024 - Project discussion is ongoing. Act 167 planning is of priority to the County; however, funding has not been applied for yet. 2023 - This project is still of high priority although funding has not yet been secured to complete this effort.	
2.2A	Training for local officials on stormwater and floodplain law, requirements, and proper procedures. Goals: Better trained permit officers; increased compliance of development with local and PA laws; greater consistency and accountability for review, inspections, enforcement, and reporting in development permitting	Steps: Design a training program and fact sheets; develop model admin policies and protocols; conduct a train the trainer program to establish a core of local trainers; deliver training	County Planning, Multi municipal agency to be created as per 2.1A, Conservation District, DEP	Countywide	2022-2027	Lack of local knowledge of stormwater and floodplain requirements. Need for training. Need to establish consistent admin protocols and policies. Lack of County Planning staff time to provide training	Capacity for outreach and coordination. Expertise and experience in some aspects of permitting		Assistance to design a training program; fact sheets; model policies	Fees for training programs Funding for consultant help	2025 - This has occurred in the past with workshops. There is webinar series that the CCCD is working on which will provide increased education. 2024 - The series of workshops that were proposed in 2023 are now planned to occur in 2025. 2023 - After consultation with County Commissioners, the District proposed a series of 2024 workshops for township officials to meet this requirement, but these workshops have not yet been held.	
2.2B	Capture and get credit for unrecorded urban BMPs. Improve data collection efforts. Work with municipalities to record BMPs from NPDES permits. Work with oil and gas facilities to document BMPs.	Capture stormwater retrofits of redeveloped existing sites. 10% of existing impervious area since November 2011 has been considered meadow to retroactively capture additional stormwater. Capture BMPs in new developments required by NPDES permits since 2011. Capture BMPs in oil and gas facilities required by NPDES. Explore new opportunities for BMPs. 150 new acres of stormwater performance standard – Runoff Reduction	County Planning could compile a list/Conservation District permits; municipalities; developers; engineers; DEP	Countywide	2022-2027	Lack of staff time. Note: NPDES Permits have Notice of Termination sealed by a PE that stormwater was constructed correctly. Some are recorded in the recorder's office. Reverifying existing BMPs from older NPDES permits. Ensuring all are accurately recorded. Local lack of understanding of data entry systems. Questions of reliability of data entry systems.	Approved plans/CCCD/ EFACTS; capacity for outreach and coordination; some technical expertise		Inspections to verify installation (most have been inspected as requirement of permit termination). Training in data entry.		2025 - Continuing efforts but planning has not been capturing for data entry and municipalities were also not capturing them. CCCD could be entering 102 and 105 because they are delegated. 2024 - BMP verification efforts have been concluded in the Spring of 2024 with the data entry for all practices into Practice Keeper. In 2024 the District worked with Leidy South to help document oil and gas facility BMPs. 2023 - Efforts have been started to collaborate with outside organizations to quantify efforts although additional work needs to be done to develop a program to achieve this effort effectively.	
2.2C	Emphasis on enforcement by county agencies of zoning, subdivision, floodplain, and stormwater regulations, resulting in increased compliance by development and increased use of BMPs	Make greater use of performance bonds allowable under SALDO to ensure compliance with approved plans; increase post-construction inspection of zoning permits and follow-through on enforcement actions.	County Planning Office, new multi-municipal zoning/ permitting agency.	Countywide	2021-2027	Staffing	Existing expertise in admin and enforcement		Increase of effort by reallocation of time or adding capacity; possible need for part-time inspector		2025 - There is continuing enforcement. The County is pursuing compliance enforcement. 2024 - This is still a County priority which could be assisted by the Act 167 and SALDO initiatives. The District is brainstorming ways to offer workshops and training to local officials, to push education in 2024 and 2025. 2023 - This is still of priority although a funding source dedicated to pursue this project has not been secured.	

2.2D	Address threats to forests from development including natural gas, utility and solar, and growing development of seasonal homes. Conservation of Forest Lands.	Adopt county zoning amendment covering utility scale and accessory scale solar. Consider other zoning amendments and admin measures.	County Planning Office, North Central PA Conservancy, Western Pennsylvania Conservancy, PA Wilds Planning Team		2025-2027	Solar farms are becoming more popular and are devastating standing forests, work to promote solar farms on brownfield locations.				2025 - This effort is underway through the County Planning office. 2024- Project is still under discussion for the best step forward to complete this effort. 2023 - This project is still under discussion for the best step forward to achieve the efforts planned.	
2.3A	Identify and promote implementation of various projects from the Clinton County Hazard Mitigation Plan.	Take part in the planning for the 2023 Hazard Mitigation Plan; Identify specific hazard mitigation projects for the plan's action items – for Planning Office to implement	County Planning, GIS, Emergency Services, Watershed Associations, Conservation District, TU, Municipalities		2021-2027	Lack of funding; lack of capacity of municipalities, agencies, and organizations to execute projects;	Capacity for outreach and coordination; expertise for various plans	Planning, engineering, additional staff capacity to initiate project	Cost estimates from various plans or to be determined as needed	2025 - Hazard mitigation plan was renewed in 2023, 2028 will be the next update, and 2026 they will start working on the new update. The municipalities are aware of where the problems are, but funding to implement projects to address them is the issue. 2024 - The County Hazard Mitigation Plan was adopted on January 25th, 2024 by the Clinton County Commissioners. Currently, a project and initiative underway from the plan is a Stream Gauge monitoring system on the Fishing Creek Watershed. The County Emergency Services Office hope to complete reviews and updates to the plan yearly. A stakeholder meeting is taking place in December 2024 to engage interested parties for addressing County Flooding. 2023- Hazard Mitigation Plan have been ongoing and projects have been	
2.3B	Encourage large-scale stormwater facility retrofits for problem areas. Upgraded facilities more effective at minimizing runoff and sedimentation.	As opportunities arise, work with re-developers to ensure stormwater facilities are adequately and properly built through SALDO enforcement.	County Planning, Conservation District, Municipal officials	Countywide, problem facilities identified by municipal officials	2023 – 2027	Feasibility, high cost, lack of funding, ownership/ control of stormwater facilities	Capacity for outreach and coordination; some technical expertise	Engineering to design retrofits and estimate costs	Costs to be determined by further work	2025- There has not been much progress on this effort, but it is of interest to the CD and county. 2024 - Initiative is still a priority, however, grant funding has not yet been secured. 2023- This is still of priority although a funding source dedicated to pursue this project has not been secured.	
2.3C	Remove derelict buildings from flood plains	Identify and obtain access to target properties; identify funding sources; remove structures and implement riparian buffers Blighted property removal resulting in 2 acres of impervious surface reduction.	County Planning, Conservation District, Municipalities, SEDA-COG, Clinton County EMA	Countywide, sites in FEMA- identified flood plain areas and in County Hazard Mitigation Plan	2022-2027	High cost, lack of funding, ownership/ control of proper-ties, potential environmental hazards	Capacity for outreach and coordination; some technical expertise	Engineering/environmental expertise for site evaluation and design	Costs to be determined by further work	2025 - The CD is aware of one building that has been removed due to proximity to floodplains within Renovo. There is communication about more removals happening in the future with FEMA and PEMA buyouts. The County is trying to pass an ordinance to limit rebuilding in floodplains after flood events. 2024 - This initiative is still of priority and planning is on-going. Although grant funding will need to be secured before moving forward. A stakeholder meeting is planned for December 2024 to discuss funding options. 2023- This is still of priority although a funding source dedicated to pursue this project has not been secured.	
2.3D	Work with Water and Sewer Authorities to improve old infrastructure and degrading sewer lines	Improve degrading and leaking lines for wastewater facilities Encourage shared equipment and services among water and sewer system	County Planning, Water and Sewer Authorities	Countywide	2022-2025	Act 537 plans might have these improvements in them, but utilities might not be on track to address them or necessary rate structure might not be affordable for community. High cost of engineering.				2024 - Water and sewer authorities are completing appropriate upgrades and maintenance to their systems as needed. 2023 - Water and sewer authorities are completing upgrades and maintenance as necessary although assistance from the District has not yet been provided. A secured funding source will allow the District to offer assistance toward these efforts.	2025 - This effort is marked as completed as the municipalities and county are continuously working with the water authorities to improve infrastructure.
2.4	Improve technology capacity to aid BMP planning, implementation and data management	Complete GIS analysis to identify priority areas for installation of BMPs with greatest net effect on nutrients. Upgrade capacity for inventorying and reporting of BMPs to quantify pollution reductions. Map existing municipal stormwater outfalls to aid monitoring of water quality and illicit discharges.	County Planning, GIS, Conservation District, Ag extension, DEP, Chesapeake conservancy, NRCS, Lock Haven University	Countywide Initial priorities for stormwater outfall mapping are urban communities.	2022-2025	Finding and integrating multiple sources of data	Existing data, GIS expertise	0.5 FTE GIS Department employee	\$25,000	2024 - Online mapping portals were created through the BMP verification process that allowed for aerial review of potential project sites. This mapping could be altered to provide further resources. 2023 - The BMP verification process established online mapping portals which can be utilized for future BMP location planning and adapted for better data management tasks. This effort will need undertaken to achieve this action item.	2025 - This initiative has been completed. The county is utilizing internal methods to track BMP implementation
2.5A	Conduct fertilizer education for commercial landscape industry, homeowners, and large non-farm property owners. Goal: Reductions in nutrient runoff from improper and over application of fertilizer.	Support fertilizer legislation resulting in 300 acres of urban nutrient management. Work with 3 golf courses to reduce fertilizer inputs.	Conservation District, County Planning, partner groups to be recruited, Penn State Extension	Focus on urban communities	2022-2025	Development of effective education, marketing, and communication; conventional outreach vs. digital and social media Partner with Williamsport on Education campaign	Expertise in fertilizer application		Funding for preparation and dissemination of education	2024 - Ag workshops were completed in 2024 and are under discussion for future implementation. 2023- This is still of priority although a funding source dedicated to pursue this project has not been secured.	2025 - The CD uses the fact sheet from DEP for education. This initiative has been completed.
2.5B	Develop an education program to work with commercial businesses, public lands, and homeowners	Create "Keystone Demonstration Plots" to educate public on example BMPs Install signs at urban stormwater inlets naming the destination of their stormwater. Do demonstrations at popular businesses in the community	County Planning, Commercial Businesses, Penn State, DEP, PSU Extension, Clinton County Economic Partnership	Countywide	2022-2025	Willingness of the public to participate in educational opportunities Use DEP fact sheets as produced				2025 - The county has a farm that is used for Nutrient Management training and there is a survey that is planned to roll out of the CD for farmers and what educational topics they would benefit from the most. The CD is planning to do a cover crop demonstration in 2026. 2024 - The District is working on creating a YouTube channel to use as an outreach tool for the public, and this effort will continue into 2025. 2023- This is still of priority although a funding source dedicated to pursue this project has not been secured.	

Priority Initiative 3:													
3.1	Establish funding/staff to assist in data collection and accounting (i.e. Practice Keeper Entry)	Enter an average of 7 Nutrient Management Plans per year between 2022 and 2025. Expected to result in the identification of 50 new acres riparian buffer, 1000 new acres of no-till and 2000 new acres of cover crops by end of 2025. Verify the existence of BMPs already reported in Practice Keeper and cross reference to required BMP re-verification / re-entry timelines. Review 244 previously entered inspections encompassing 7,962.41 acres to determine if all BMPs from those inspections have been entered into Practice Keeper. Expected to result in 2,000 new acres of no-till, 2000 new acres of cover crops, 2000 new acres Core N and 2000 new acres Core P	Clinton County CD	County- wide	2022-2027	Ensures credit of already implemented BMPs. Until 2014-2015, Ag erosion control and manure management plans were not entered into PK. Private sector ag plans are only shared with the District during an inspection or complaint investigation.	District's two (2) Agricultural Resource Conservationists	Act 38 funding via State Conservation Commission Chesapeake Bay Technician Funding via DEP	Temporary staff for database mining (1 FTE for 26 weeks) Intern	\$22,000 for additional staffing.	2025 - This has been constantly ongoing within the CD. In 2025 there were no ag inspections due to lack of staff, but the CD hopes to continue ag inspections in the future. 2024 - BMP verification efforts were completed in 2023 with data entry for additional practices occurring in 2024. In addition, all CAP projects are being entered into Practice Keeper for recording. Approximately 40 new BMPs were entered into PK this year in addition to 41 Phase 1 Chesapeake Bay Inspections. 2023 - Larson Design Group was secured to assist with BMP verification efforts and this project was completed. BMPs have been entered into Practice Keeper for tracking purposes.		
3.2	Help farmers and operators to be in compliance with state planning requirements: updated and fully implemented Ag E&S, Manure and /or Nutrient Management Plans	Create a 4-year funding program to fund 100% of the funding for manure management plans to improve farming reporting. 25 farm inspections per year (100 new entered into PK by 2025). Estimated to result in 50 new Ag E&S plans and 50 new manure management plans entered into PK by 2025. Estimated to result in 1,000 acres / year being inspected between 2022 and 2025 (4,000 total acres). 2000 new Core N acres. 2000 new Core P acres. NOTE: Number of inspections, plans and acres could be doubled with additional inspector	Clinton County CD, DEP, NRCS, private sector ag planners and consultants.	Loganton catchment and other priority areas.	2022-2025 and beyond	Aligns inspection work in areas (and on priority parcels) where funding for BMPs is known to exist for 2022-2025 with lower priority areas being addressed after 2025. Second round of Bay inspections may turn up significant non-compliance with plans. Resistance from farmers to expend funds to update existing, outdated plans. Lack of Technical assistance to support agriculture planning and implementation.	District's two (2) Agricultural Resource Conservationists	Chesapeake Bay Technician Funding via DEP	Funding for Ag Planners to provide plan writing and plan update services and spell out BMPs 1 FTE per year for four years to help conduct inspections and specify BMPs	\$12,500 per year for plan costs \$40,000 per year to increase inspection capacity	2024- The Christ King project is planned for 2025 which will help the landowner come back into compliance. The District is planning on hosting an AG brunch to discuss E&S and manure/nutrient management plans. 2023 - The District has conducted 48 phase 2 Chesapeake Bay inspections and identified 45 farms that are currently out of compliance with State planning requirements. The District has written 13 manure management plans and 15 Ag E&S plans. Additionally, the District has directed out-of-compliance operations to certified planners and has submitted 5 plans to PACD for reimbursement under their farm plan reimbursement grant.	2025 - Current CD ag staff is completing training and this effort has been ongoing and will continue. This initiative has been completed.	
3.3	Implement a survey process for capturing current agricultural best management practices that are unreported and to re-verify the existence of plans prior to the implementation of Practice Keeper.	Wide scale survey to be completed by 2025	Clinton CD	County- wide	2022-2027	Farmer knowledge of the location and contents of their plans. Farmer resistance. We have heard from stakeholders that they feel they have answered surveys in the past and shared plans but are not certain what was done with the data. Ensures credit of already implemented BMPs. Potential time and resource limitations for plan entry.	District's two (2) Agricultural Resource Conservationists	Chesapeake Bay Technician Funding via DEP	Temporary staff 1 FTE for 26 weeks) for survey design, distribution and entry of data (BMPs) resulting from the survey. Survey Distribution (mailing costs)	\$9,750 for additional staffing plus \$2,000 for mailing.	2025 - The CD is working on an equipment survey to record equipment use and capture opinions about what equipment would be useful. This is a continuing effort through the CD and county. 2024 - The District and LDG have been working to capture all BMPs that have been identified around the County in addition to recording agricultural plans and their associated practices. 2023 - To date, the District (with help from CAP coord - Larson Design Group) has identified: 1,216.35 acres of forested riparian buffer, 17 roof runoff structures (5,070 linear feet), 40.35 acres of prescribed grazing, 1,654 linear feet of exclusion fence with grass buffer, 2829.06 sq ft of heavy use protection. The District has also provided the CAP coordinator with a field-by-field breakdown of Ag E&S BMPs at a CAFO that catalogued 2181 acres of continuous no-till and 1536 acres of cover crop implementation.		

3.4	Continue promotion of no-till farming practices and cover cropping.	Continue to offer and promote no-till drill program. Incentivize the use of cover crops by initiating a "cover crop demonstration plot" initiative where Clinton County CD resources (no-till drill, seed, staff time) are used to seed 10 acres of non-cover cropped land in priority areas on the farms of potential peer-to-peer "influencers." Increase conservation tillage by (100 acres per year) Increase cover cropping by (100 acres per year) By 2025, tillage and cover crop rates would be at follows: 10,000 acres per year high residue (4% increase from current), 3,400 acres conservation tillage (13% increase from current) 6,500 acres of traditional cover crops (7% from current).	Clinton CD	County-wide	2021-2027	Neither DEP nor will Capital RC&D will currently share what no-till and cover cropping is currently uploaded into PK nor will Capital RC&D share transect survey routes. This results in significant duplication of effort by District staff, an additional burden on farmers and makes it impossible to effectively target outreach. Requires "seed" money to support / promote cover cropping and no-till demonstrations and initiatives. Encourage the private purchase of conservation equipment (no-till drills, manure injection equipment) and implementation of BMPs such as cover cropping, stream fencing, etc. by publicizing the much under-utilized REAP program.	Two (2) no-till drills (owned by District) and eight (8) farming demonstration lots. District currently rents no-till drills for 350 acres of no-till planting per year. District's two (2) Agricultural Resource Conservationists	Chesapeake Bay Technician Funding via DEP	Temporary staff (1 FTE for 16 weeks – 8 weeks in March and April and 8 weeks in August and September) to deliver drill, promote program.	\$12,000 per year staffing for 4 years. \$10,000 per year for the purchase of multi-species cover crop seeds that can be no-till planted using the District's no-till drills.	2025 - The equipment rental through the conservation district is available and approximately 3 operators rented the equipment. The District is looking into additional equipment that may be beneficial due to the variation of crops within their county. 2024 - The no-till planter was utilized during 2024. For 2025, the equipment may not be available for rent because the program was so effective that many landowners ended up buying their own no-till equipment, so the county equipment is not heavily needed anymore. The county is discussing looking into horse drawn no-till planters for rent. 2023 - No-till promotion is ongoing with the no-till rental program being utilized.	
3.5	Farmer Education: 'Promote and assist in implementation of Soil Health Practices/BMPs in priority areas	Conduct a REAP workshop for local farmers to promote tax incentives for the purchase of conservation equipment and cover-cropping via the REAP program. Educate farms on the private carbon credit market. This is a potential to find funding to implement BMPs. Conduct two (2) farm outreach town halls that include presentations from farmers currently utilizing cover cropping and no-till and include visits to farms where soil health practices have been adopted. Host / facilitate farm Decisions-maker trips to showcase BMPs that work.	Clinton County CD, the Stroud Center, Penn State Extension, local farmers	Priority areas.	2022-2027	Encourage the purchase of conservation equipment (no-till drills, manure injection equipment) and implementation of BMPs such as cover cropping, stream fencing, etc. by publicizing the much under-utilized REAP program. Farmer resistance or buy-in.	District's two (2) Agricultural Resource Conservationists	Chesapeake Bay Technician Funding via DEP		\$4,000 per year	2025 - The CD did not publish a YouTube Channel, but other opportunities such as an ag ACAP panel occurred. This reached 15-20 community members. Further education is anticipated to be revitalized once full staffing is achieved. 2024 - The District is working on developing a YouTube channel that will be used as an educational platform for the public. There was an AG workshop held in 2024. There is interest in holding a REAP workshop in 2025. 2023 - This is being completed both on a farmer-by-farmer basis and through a series of public workshops. The District held a farm planning workshop at the Sugar Valley Rural Charter School (in the center of the Loganton catchment that DEP identified as the hub of nutrient contribution from the County) and held a second soil health workshop at the same location that highlighted new equipment for the no-till planting of vegetables and tobacco.	
3.6	Pilot Program to move Manure from ag communities to AMD lands	Take excess manure and FPR and apply to degraded land on reclaimed AMD Provide nutrients to nutrient poor soils in hopes of encouraging native plant growth. Target these areas for reforestation and the planting of pollinator habitat. Reduce nutrients in nutrient rich areas of the county such as Fishing Creek.	Clinton County CD,	Manure will be going to Tangascootac Region	2021-2027	Will need to relocate certified manure hauler. Lack of identified funding Lack of staffing.	Clinton CD, NRCS, BAMR		Short-term or temporary hire / manure hauling fees.	\$40,000 per year for an additional staff (1 FTE) person. \$60,000 per year to cover the cost of having broker deliver the manure.	2025 - Due to CD staffing, this initiative has not moved. This initiative is still of interest to the CD and County and should be pursued when staffing allows. 2024 - The AMD workgroup plans to discuss feasibility and interest. 2023 - This project is under discussion now that the BAMR Subgrants have been rolled out for funding potential.	
3.7	Agricultural Preservation	Put 3 new farms into the ag preservation program between 2021 and 2025 resulting in 200 acres of "preserved" land. With additional funding could place 9 farms in the ag preservation program between 2021 and 2025 resulting in 600 acres of "preserved" land. Document that the 2,625 acres of "preserved" land already enrolled in the Ag Preservation program are identified and have received proper credit in the Bay model.	Clinton County Planning Office, Chief Clerk's Office, Clinton County CD, Penn State Extension		2021-2027	Lack of economic incentives; Insufficient resources for data collection, design, implementation and verification. Conservation District staffing and expertise shortfalls.	Clinton County CD	Federal/State /local agency grants/ programs, private grants. Ag Land Preservation Board and Farm/Natural Land Trust		\$5,000 in salary cost for County CD to absorb the duties of the Ag Preservation Program. Would need as estimated \$500,000 per year annually to meet current Ag Preservation Demand.	2025 - This initiative is ongoing and there was 1-2 new properties within 2025. 2024 - Two new landowners are applying for Ag preservation in Clinton County this year. 2023 - Agricultural preservation is ongoing with the funding already available to the county. Additional funding was not secured to expand conservation efforts.	

3.8	Outreach and Partnership Building	Identify messaging that is more effective with the agricultural community (e.g. herd health, building legacy options for families, economics, retention of soil and nutrients, cost savings) to foster enhanced collaboration in BMP implementation.	Clinton County CD, Watershed Associations, local stakeholders.	Clinton County	Priority Areas	Large numbers of potential landowners to contact. Current staffing level is insufficient for rapid relationship building with numerous partners. Funding for additional staff. Plain Sect are traditionally nervous about govt funding.			Term or temporary hire	\$40,000 per year for an additional outreach and partnership building staff (1 FTE) person.	2024 - Partnerships within the District are growing from year to year with the addition of projects for Amish citizens occurring in 2024-2025. The District is currently working together with multiple partners for various proposed projects. The District has been more involved in the Chesapeake Conservancy which has helped with ACAP in 2024. 2023 - Partnership development is ongoing to complete existing projects although expanding the partnership efforts has not been completed to expand countywide outreach. As examples, the Conservation District partnered with US Fish and Wildlife Service, DEP and Pheasants Forever to complete the stream stabilization project on Stonehouse Road. The District also partnered with PP&L and US Fish and Wildlife to plant 1.1 acres of riparian buffer and, the District partnered with Mill Hall Borough and PA fish and Boat to complete the stream-bank stabilization project in Mill Hall.	2025- This has been accomplished and continues to evolve and grow within the county.
3.9	Establish a real-time stream monitoring program	Establish the ability to deploy real-time stream monitoring equipment that will establish local water quality trends, point out areas of impairment, identify hotspots and priority locations, and, therefore, point the way to areas where BMP implementation may pay the most dividends. In the future, this system should indicate/verify countywide progress toward WIP 3 goals.	Clinton County CD, DEP, EPA, SRBC & USGS, TU.	Clinton County	2023 -2027	Funding; Sustainability; Data storage and analysis. DEP/EPA accept third party monitoring data and include in the Chesapeake Bay Model Work with Chesapeake Conservancy to gather data from auto samplers	Technical expertise	USGS/ SRBC	County Technical/ Administrative Staff Monitoring Equipment SRBC/USGS contracting	Funding for a staff position (1 FTE); monitoring equipment; & SRBC/USGS contracts (\$450,000 for five years)	2025 - There has been minimal progress on this initiative in 2025, but the CD is working on establishing a monitoring schedule for different areas of interest. There are currently two stream guages installed on Fishing Creek for data collection. 2024 - A stream monitoring Super Guage has been installed on Fishing Creek that will provide real time stream data for suspended solids and flow levels. It is proposed for 2025 that Beech Creek watershed will have a real time water quality system installed by TU. 2023 - This effort has not been completed due to the lack of a dedicated funding source although is still a priority for project roll out.	
3.10	Provide data transparency for practitioners who use Practice Keeper and data transparency relating to DEP's annual Progress Run dataset development and data input.	Add DEP data inputs to Practice Keeper so that, spatially, Conservation District staff can see the plans and BMPs that are already in the system above and beyond those that they input in- house.	DEP	Statewide	2022 - 2027	Essential in maximizing use of available resources by minimizing redundancy and duplication of effort.			More dedicated staff to assist coordination and implementation on of CAP/ WIP 3		2025 - This is underway with the new system established by DEP where the CD can view all implemented projects. CD is working to create a system that establishes better record keeping internally. 2024 - This initiative is being planned through the District on how to create data transparency for the County, DEP, and contractors. The District is in the planning phase of creating a cross sharing platform to increase the data transparency. This effort will be extended into 2025. 2023 - This action item has been discussed at multiple levels and is still being evaluated for the best roll out method.	