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							Resources	<u>Available</u>	Resourc	es <u>Needed</u>		
Action #	Description	Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Technical	Financial	Technical	Financial	Annual Progress to Date (2021 + 2022)	Reason for Change to Action Item (2023-2024 milestone period
1.1B	Implement County Comprehensive Plan policies	Map existing AMD BMPs and address additional impairments in Moshannon	Moshannon Creek Watershed Association,	Moshannon	2021 – pilot initiation	Majority of Association's work has occurred in Clearfield County, drought can make sampling inconsistent, additional	identification	N/A	Project design	Assume \$500k needed per project	2022 - Funding applied for: PA Council Trout Unlimited Technical Assistance Grant, Western Pennsylvania Coalition for Abandoned Mine Reclamation Quick Response Grant for Treatment System Repair - \$2000. PATU - evaluation of the watershed section between Hale Road and Whiteside Run for a restoration plan. WPCAMR grant was reimbursement for work done on Stump/Stump JR passive treatment system. PATU project in process, WPCAMR grant work done, waiting for reimbursement check. Eastern Brook Trout Joint Venture Grant for design of treatment for MC-FORE discharge and various other headwaters evaluation work items. In partnership with Native Fish Coalition - PA Chapter and Clearfield County Conservation District. Project total about \$80K, half of which is match. Project area near Ginter, PA. We are likely to be soon applying for another WPCAMR quick response grant for repairs to Shotgun Seeps treatment system. This project is in SGL 33 near Philipsburg. \$6K. Major repairs to Mine Drift treatment system. Project in SGL 33 near Philipsburg. Approximately \$30K. We have had preliminary discussions with OSMRE about a grant program they have that would apply to this project. Major redesign and rebuild of Chiller Seeps and	

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							Educational	Minimal for	N/A	N/A	PennDOT treatment systems. Likely \$200K for Chiller, \$100K PennDOT. Nitrogen reduction credits from AMD projects are being studied by a technical review group through CBP STAC. 2021 - Moshannon Creek Watershed Associations current focus is on project work (new installs, maintenance, rehabilitation of old BMPs). Mapping existing BMPs is not a high priority but will be considered in future years.	
1.10	Penns Valley, 2006 – Implement the Source Water Protection Plan	document and	Centre Hall Borough, Centre Hall Water Authority	Centre Hall, Millheim, Penn Township, Potter Township	1-2 years	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).	flyer forms and activities lists. Coordination of meetings and continued education.	Minimal for printing, postage, website maintenance (\$250)	N/A	N/A	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.	

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1.1D	Advance local comprehensive planning efforts Penns Valley, update — Facilitate efforts to minimize flood impacts	As outreach occurs in Penns Valley, be mindful of this need and be on the lookout for opportunity to advance the effort	Gregg Twp, Millheim Boro, Penn Township, Penns Valley Conservation Association	Within responsible party municipalities	5-10 years	Original discussions stemmed from landowner concerns regarding flooding and flood mitigation techniques. FEMA's Community Rating System (CRS) was offered as a program solution but municipalities opted not to participate citing lack of administrative capacity. CRS includes incentives for adopting/ enforcing higher floodplain development standards. Flood mitigation is relevant to Chesapeake Bay pollutant load reductions because stormwater controls for development are not designed to capture pollutants from storms >around 2". Flood controls can, if considered in design and maintained, capture pollution.		N/A	Flood elevation certificates for program entry Administrative capacity	N/A	2021 - The administrative capacity is not yet in place and the conversations have not occurred. However, the implementation timeline is far enough out that this item can be reviewed in future progress updates.	
1.1E -1		Not set in comp plan Utilize Chesapeake Conservancy data set to identify buffer gap project opportunities (2021)	Municipalities, Conservation District, Chesapeake Bay Foundation, Pheasants Forever, National Trout Unlimited			No set means of evaluation outlined in comp plan and landowners' volunteering to plant riparian buffers unlikely. Adopting ordinances not likely on a regional scale but may require a pilot project in a willing municipality to demonstrate success.	Base mapping identification; landowner outreach; on the ground riparian project execution	N/A	Planning and construction guidance/stan dards	See Initiative 3.8	2022 - Buffer gaps are mapped by Chesapeake Conservancy and can be utilized for project development/educational needs that support this goal. 2021 - The Nittany Valley's concentration is on public safety issues and moving into Hazard Mitigation Plan goals. However, the implementation timeline is far enough out that this item can be reviewed in future progress updates.	

							Resources	<u>Available</u>	Resource	es <u>Needed</u>		
Action #	Description	Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Technical	Financial	Technical	Financial	Annual Progress to Date (2021 + 2022)	Reason for Change to Action Item (2023-2024 milestone perio
1.1E -2			Municipality, Centre County Planning Office	Marion Township	5-10 years	With no public water system this would take the place of the traditional source water protection plan.	May take place in the form of an ordinance vs. plan	N/A	dards	Assume \$300,000 planning cost	2021 - The Nittany Valley's concentration is on public safety issues and moving into Hazard Mitigation Plan goals. However, the implementation timeline is far enough out that this item can be reviewed in future progress updates.	
1.1E 3	Nittany Valley, 2004 – Participate in source water protection planning	Complete a SWP for Walker- Twp. Water Association 2021 — meet with Walker- Township and Water- Association to facilitate- discussion and identify if a- feasibility study should be- conducted	Municipality, Water- Association, DEP, Consultant	Walker- Township	1 2 years	The Association structure vs. Authority structure has provento 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.	Further- discussion- with township; consultant- driven plan.	N/A	Í	Assume \$300,000 planning cost	2021 - The Walker Township Water Association continues to address system wide issues related to installing new pipe and new hydrants, so source water planning is not (from their perspective) a high priority. Walker Township has not vocalized their position on acquiring and operating the system under an authority structure. CCPCDO will continue the discussion in 2022, but it is unlikely that a source water protection plan will formulate in this area in the near future.	Funding for source water protection plans are not availa and local infrastructure prioriti take precedent.

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

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			Party(ies) and	Geographic	Expected	Challenges or					Annual Progress to Date	to Action Item
Action #	Description	Performance Target(s)	Partnerships	Location	Timeline	Recommendations	Technical	Financial	Technical	Financial	(2021 + 2022)	(2023-2024 milestone period)
1.10E-04	Advance Centre Region	Participate in the	Centre Region Planning	Centre Region	Ongoing	Connect our plans in meaningful	Plan	N/A	N/A	N/A	2022 - The final plan indicates a minor connection of	Limited anticipated connections
	Climate Action and Adaption	development of "Clean-	Agency, Council of			ways so that climate action and	development				clean water to climate adaptation benefits, so there is	between now and 2025.
	Plan-	Healthy Water" goals	Governments Climate			local water quality goals can-					limited expectation for benefits by 2025.	
			Action and Adaptation			mutually benefit					2024 The Could off (2024	
			Technical Advisory								2021 - The first half of 2021 was spent on getting public input on the development of a Centre Region Climate	
			Group, Centre County								Action and Adaptation Plan (CAAP) to help prioritize the	
			municipalities with								strategies to include in the plan. The Executive	
			Climate Action Plans								Summary and full reports of the Centre Region	
											Sustainability Survey and the community forum on	
											Addressing Climate Impacts in the Centre Region are	
											available on the COG website	
											https://www.crcog.net/climateaction	
											and https://centresustains.com/ .	
											(COG website direct URLs to survey and forum pages:	
											https://www.crcog.net/sustain-survey and	
											https://www.crcog.net/climate-forum)	
											The second half of 2021 was spent writing the CAAP and	
											having the 6 municipalities adopt it. The Plan was made	
											available for public review in fall 2021 fall. Information	
											can be found at www.crcog.net/climateaction and on	
											FB and IG @centreregionalplanning. The Clean Healthy Water chapter ties to CAP goals and joint	
											implementation will be planned in 2022.	
											implementation will be planned in 2022.	

		<u>Green</u> - action h	as been completed or i	s moving forwa	rd as planned	Yellow - action has encounter	red minor obst	acles <u>Red</u> -	action has not	been taken or h	as encountered a serious barrier	
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			Party(ies) and	Geographic	Expected	Challenges or					Annual Progress to Date	to Action Item
Action #	Description	Performance Target(s)	Partnerships	Location	Timeline	Recommendations	Technical	Financial	Technical	Financial	(2021 + 2022)	(2023-2024 milestone period)
1.1F -1	-	Bi-annual review of plan and	_	Within the Zone	1-2 years		Educational	Minimal for	N/A	Assume	2022 - Planning staff attending Spring Creek	
	planning efforts	_	Milesburg Borough	1 and Zone 2			flyer forms	printing,		\$300,000	Watershed meetings to gage more about	
	Milesburg/Boggs, ongoing –		Water Authority; Boggs Township and PA			authorities to perform education and outreach.	lists.	postage, website		planning cost	implementation of the Phase 3 component. Some consideration may be given from Boggs to explore a	
	Work with respective water		American Water;			Recommendations include	lists.	maintenance			well head protection overlay ordinance however	
	authorities to implement		Bellefonte			putting SWP plans on the		(\$250)			much education will be needed.	
	Source Water Protection		Borough/Authority			municipal websites and consider						
	Plans					annual/bi-annual joint meetings					2021 - This goal drew some interest at June's comp	
						and informational mailings to property owners who are in	Coordination of meetings				plan team meeting and concerns about the extent of future development in the Spring Creek Watershed	
						proximity to Zone 1 (well heads).	_				impacting the Big Spring aquifer were voiced. Team	
							education				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	One-time adoption of	Boggs Township, SEO	Upper Boggs	5 years	Public acceptance and public	N/A	N/A	Inventory of	\$90,000 per	2022 - Municipal staff changes at Boggs will likely	
1.17 -2	· ·	ordinance with enforcement	boggs Township, SEO	Township	5 years	hearing meetings may be	IN/A	IN/A	property	-	delay this item 6-12 months. Solid examples of other	
	F8	contingent upon program		beyond public		contentious given associated			owners with		programs available for consideration when time	
		cycle of inspection and tank		sewer extent		program fees needed for			on-lot	\$12,000 per	appropriate.	
		pumping.				program sustainability.			systems;	year is recouped		
						Landowner education will be			program tracking	through permit fees	2021 - Boggs Township expressed concern about how to start up the program and what costs are	
						needed to promote proper on- lot septic system maintenance			software; SEO.	liees	associated. They seem open to discussing the	
						and risks to groundwater			35.1114.5,325.		program further in concept if the CCPCDO can	
						resources. DEP involvement					provide some initial technical support and program	
						through Act 537 may act as a					start-up costs would be covered by grant.	
						catalyst.						
1.2A	Implement County Hazard	Improve flood prone areas	CCPC, municipalities	Spring Mills	2023-2025	Funding, land for BMPs	N/A	N/A	Planning,	\$5,000,000	2022 - Spring Mills/Coburn listed similar 2021 HMP	
	Mitigation Plan (2015, update	with BMPs that also		(Penns, Sinking					engineering,		goals for flood protection measures. More feedback	
	kickoff JUNE 2020)	enhance water quality		Creeks); Coburn					permitting,		on community interest will be gained at the HMP	
				(Penns, Elk,					construction		annual review September 2022.	
				Pine Creeks)							2021 - No discussions with Penns Valley regarding	
											hazard mitigation have taken place to date, though	
											this is not planned to start until 2023.	

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Action #	Description	Performance Target(s)	Partnerships	Location	Timeline	Recommendations	Technical	Financial	Technical	Financial	(2021 + 2022)	(2023-2024 milestone period)
1.2B	mplement County Hazard	Improve flood prone areas	CCPC, Milesburg	Milesburg Boro,	2021 – review	Funding, local/landowner	Planning		Planning,	\$5,000,000	2022 - Partnership between Centre County Conservation	
N	Mitigation Plan (2015, update	with BMPs that also	Borough, Boggs	Boggs Twp	flood-resulting	interest			engineering,		District and the Farmland Preservation porgram continued.	
2	2020-2021)	enhance water quality –	Township, Centre	(lower Bald	pinch points				permitting,		One field meeting with Conservation District staff and	
		address tributaries impaired	County Farm Bureau,	Eagle and	and map out				construction		Farmland Preservation coordinator occured with a current preservation applicant which resulted in one additional	
		by ag activities (Little Marsh	Bald Eagle Creek	Spring Creek);	upstream BMP				for ultimate		conservation plan input into PracticeKeeper.	
		Creek) and tributaries (Holt	Watershed Association,		opportunities				solution		sonser ration plan in par into 1 ratioenceper.	
		Run/Bald Eagle Creek)	Trout Unlimited,								Joint inspections will continue to take place on both	
		impaired by pathogens	National Fish and								preserved and applicant farms.	
		downstream of Milesburg	Wildlife Service									
		Borough and upstream of									2021 - Centre County Conservation District established a	
		Bald Eagle State Park									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&S plans to be input into	
											PracticeKeeper.	
											No additional mailings are planned – working on in-person	
											meetings with preserved farm owners to discuss	
											conservation plans & BMPs on property. Currently at 4 field	
											meetings for farmland preservation applications – resulted	
											in two additional Ag E&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.	
1.3 L	Update/draft Act 167 Plans-	Address climate change	CCPC, municipal	Countywide	2021 – discuss	Should local involvement exist,	Institutional	N/A	Act 167 Plan	\$350,000	2022 - The 2022/2023 state budget includes new	Based upon discussions in 2021
1.5	opaate, arait / tot 1 0/ 1 lans	•	engineers, PSU	Sourcy wide		funding for Plan update	knowledge	,, .	Development	*	· · · · · · · · · · · · · · · · · · ·	with municipal engineers, no
		enhanced water quality			pursue and		owicage		2010 pilicile			ordinance updates or further
		needs with respect to			funding							planning are recommended.
		development and			opportunities		1			1	plans to explore opportunities to develop an Act 167	planning are recommended.
		agriculture			opportunities						Plan.	
		-D. 10411411 C					1			1	· · · · · · · ·	
							1			1	2021 - The CAP team discussed the existing Act 167	
		Create new model					1			1	Plans and resulting model ordinances with key local	
		stormwater ordinance that									stakeholders. The results of the discussion is that the	
		would require/incentivize					1			1	ordinances are working as expected for flood	
		additional protections for									mitigation and water quality is addressed through	
		streams (high quality and					1			1	calculations. MS4s will be updating their ordinances	
		impaired)									based on the new DEP model ordinance in line with	
		ıııı ραιι cu)					1			1	their permit implementation schedule.	
											their permit implementation schedule.	

							Resources	<u>Available</u>	Resource	es <u>Needed</u>		
Action #	# Description	Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Technical	Financial	Technical	Financial	Annual Progress to Date (2021 + 2022)	Reason for Change to Action Item (2023-2024 milestone peri
1.4	enhancement	\$2,291 per acre, ADD 1-2	Trust and Centre County Agricultural Preservation	_	2021-2022 – explore incentive opportunities	inspection and paperwork, incentivize BMP installation as a farmland preservation goal, O&M partnership, verification, landowner acceptance/potential barriers to land preservation goals		N/A	Practice Keeper data input/manage ment Legal Support	Assume \$150,000 per farm → \$900,000M \$60,000 per year Assume \$10,000 budget	2022 - Partnership between Centre County Conservation District and the Farmland Preservation porgram continued. One field meeting with Conservation District staff and Farmland Preservation coordinator occured with a current preservation applicant which resulted in one additional conservation plan input into PracticeKeeper. Joint inspections will continue to take place on both preserved and applicant farms. 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&S plans to be input into PracticeKeeper. No additional mailings are planned — working on in-person meetings with preserved farm owners to discuss conservation plans & BMPs on property. Currently at 4 field meetings for farmland preservation applications — resulted in two additional Ag E&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.	

							Resources	<u>Available</u>	Resourc	es <u>Needed</u>		
			Responsible			Potential Implementation						Reason for Change
			Party(ies) and	Geographic	Expected	Challenges or					Annual Progress to Date	to Action Item
Action #	Description	Performance Target(s)	Partnerships	Location	Timeline	Recommendations	Technical	Financial	Technical	Financial	(2021 + 2022)	(2023-2024 milestone period
1.5A	Establish funding/staff	700 farms have their plans,	CCPD, CCCD, Contracted	Centre County	2021-2025	Limited compliance activities by	Field	N/A	1 engineer, 1	\$350,000 per	2022 - The Foundation for Pennsylvania Watersheds	Reduce BMP goals to be realistic
	support to assist the	including NRCS plans, might	planners	ag land		DEP. Insufficient funding for	verification,		planner, 2	year	applied for a Growing Greener grant totaling \$1.6 million	with timeline and current
	Agricultural community (day	get up to 900 farms as this				public sector staff to assist the	troubleshootin		technicians		to support additional ag engineering needs along with	implementation.
	to day support)	grant gets finished → focus				ag community.	g			\$15 per acre for	increased farm visits.	
		on BMP implementation for								a total cost of	CAST Progress Reports trend analysis have been used to	
	1140 ag parcels in Centre Co	these farms								\$1,237,500	determine new BMP goals.	
											g	
		86,000 50,000 total acres									2021 - Information pulled from October 1, 2020 through	
		under manure management									July 15, 2021 (not inclusive of information in	
		plans/ nutrient									PracticeKeeper prior to this date):	
		management plans									New Ast 20 plan sources 4 752 source	
											New Act 38 plan acreage: 1,753 acres New MMP plan acreage: 4,322 acres	
		70,000 50,000 total acres									New Ag E&S plan acreage: 5,546 acres	
		under ag E&S plans									The transplant do reager 5/5 to do es	
											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 Writer develops both plans (not Act 38) if	
											needed by the operation. The grant pays the Plan Writer	
											directly (anywhere from \$350-\$1500 per plan). The grant requires the farmer to pay \$50 (total), which considerably	
											alleviates the financial burdens associated with obtaining	
											plans. Daina Beckstrand is the certified Act 38 Specialist in	
											the office and she reviews all Act 38 plans for Centre	
											County producers. Allyson Ulsh is working under a	
											provisional certification to also review Act 38 plans.	

		Green - action h	as been completed or	is moving forwa	rd as planned	Yellow - action has encounte	red minor obst	acles Red - a	action has not	been taken or h	nas encountered a serious barrier	
								<u>Available</u>		es <u>Needed</u>		
Action #	Description	Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Technical	Financial	Technical	Financial	Annual Progress to Date (2021 + 2022)	Reason for Change to Action Item (2023-2024 milestone period)
1.5B	Develop plans	2 plans per month per consultant, assume backlog is complete (ag E&S and manure mgmt. plans)		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	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.	
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	plan reviews	\$200,000	N/A	N/A	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. 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. 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 not previously recorded in existing Plans. "Inspections" are often not the forefront of the conversation as the term does not foster a two-way relationship within the agricultural community.	

								6	,			
		<u>Green</u> - action h	nas been completed or	is moving forwa	rd as planned	Yellow - action has encounte			action has not	been taken or	nas encountered a serious barrier	
							Resources	s <u>Available</u>	Resourc	es <u>Needed</u>		
			Responsible			Potential Implementation						Reason for Change
			Party(ies) and	Geographic	Expected	Challenges or					Annual Progress to Date	to Action Item
Action #	Description	Performance Target(s)	Partnerships	Location	Timeline	Recommendations	Technical	Financial	Technical	Financial	(2021 + 2022)	(2023-2024 milestone period)
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		Conservation Plan Inventory	Existing plan	Assume 20 plar per year (\$120,000 per year)	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. 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 relationships with landowners and staff's discussions with them during phone calls, REAP application rounds, etc.	
1.6A	LandscapeU Partnership — Planning	Receive project opportunity/prioritization deliverable to assist with 2021 implementation steps	PSU Profs — Erica Smithwick, Jason Kaye; graduate students	Legacy- sediment- landscapes Riparian- Properties Preserved- Farms	2021	Student ownership of assignment, water quality monitoring data-compatibility/consistency, GIS-knowledge	Prioritization deliverable Background data Spring Creek Watershed Atlas WRMP Report	N/A	N/A	N/A	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)	The planning phase is now complete.

							Resources	<u>Available</u>	Resource	es <u>Needed</u>		
Action #	Description	Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Technical	Financial	Technical	Financial	Annual Progress to Date (2021 + 2022)	Reason for Change to Action Item (2023-2024 milestone period
1.68	LandscapeU Partnership - Implementation	Develop graduate students	PSU Profs – Erica	Legacy sediment landscapes Riparian Properties Preserved Farms	2022-2025	Continued graduate engagement as students	Outreach boots on the ground	N/A	Digital and print materials highlighting		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.	,
1.6C	Quantify Land/BMPs- Managed by Penn State- University	Work with office of physical- plant and other PSU groups- to ensure that water quality- improvements that they- manage are captured in- CAST/FieldDoc	Plant?, PSU College of	PSU- owned/manage d land in Centre County	2021	Getting maximum credits for- experimental BMPs	Institutional- knowledge	N/A	N/A	N/A	continues to be on hold by PADEP. 2021 - This initiative is on hold until FieldDoc is	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.
1.6D	Leverage Ag Progress Days as an opportunity to educate- more farmers on local water- quality issues and solutions	Have a booth and class(es) at Ag Progress Days 2021	CCCD, CCPD, Chesapeake Bay Foundation, Chesapeake Conservancy, 4R Alliance	Countywide	2021	Preparation time, county staff- availability, opportunity to- encourage farm stakeholders to- participate with us	Educational materials and demonstration exhibits	NFWF grant- funding, assume \$5,000 could be- invested in- this		N/A	to participate in Ag Progress Days each year.	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.

							Resources	<u>Available</u>	Resource	es <u>Needed</u>		
Action #	Description	Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Technical	Financial	Technical	Financial	Annual Progress to Date (2021 + 2022)	Reason for Change to Action Item (2023-2024 milestone per
1.7	Water quality communication		Board of Commissioners	Countywide	2023-2024 -	Simplifying the resources that	Communicatio	N/A	Website	\$30,000 per	2022 - The Conservation District's new Nutrient	
	plan, leveraging existing	audience; execute plan and	staff, Penn State		launch of new	are available	ns skillset		development	year	Management Technician is reviewing available	
	documents and covering	distribute messaging	Sustainability Institute,		plan based on				and continued		resources and will make recommendations on the	
	topics including Homeowner	through staff and partners	PA DEP Northcentral		baselining				maintenance		best communication strategy moving into 2023 and	
	Guide to protecting Drinking		Office, Penn State		completed in						beyond.	
	Water, Agricultural Practices		Extension (Master		2022.							
	and BMPs that reduce		Gardeners), PA Rural								2021 - Conservation District staff have developed	
	pollution, Methods and land		Water Association, Penn								content for a CAP website and post educational	
	use controls that protect		State LandscapeU,								information on Facebook. County Planning staff are	
	groundwater quality and		Clearwater								taking the lead on branding and a written	
	control quantity (Riparian &		Conservancy, Trout								communications plan/message strategy, to be	
	Forest Buffers, slope control),		Unlimited (Spring Creek								completed by the end of the year.	
	Proper Turf Management		Chapter), Penns Valley									
	Methods (Natural		Conservation									
	Landscaping and/or Chemical		Association, Spring									
	Application and Treatment		Creek Watershed									
	Measures), The Homeowner's		Commission,									
	Guide to Stormwater,		Moshannon Creek									
	Urban/Suburban BMPs		Watershed Coalition									
			(Association), Bald Eagle									
			Watershed Association,									
			USDA-NRCS, DCNR, PSU									
			AEC									

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		<u>Green</u> - action h	as been completed or i	s moving forwa	rd as planned	Yellow - action has encounted	ed minor obsta	acles <u>Red</u> -	action has not	been taken or h	as encountered a serious barrier	
							Resources	<u>Available</u>	Resourc	es <u>Needed</u>		
			Responsible Party(ies) and	Geographic	Expected	Potential Implementation Challenges or					Annual Progress to Date	Reason for Change to Action Item
Action #	Description	Performance Target(s)	Partnerships	Location	Timeline	Recommendations	Technical	Financial	Technical	Financial	(2021 + 2022)	(2023-2024 milestone period)
1.8	Countywide WQ Credit Offset	Demonstrate measurable	Centre County	MS4 watershed	2021	DEP acceptance of approach,	Engineering/M	N/A	For	\$150,000 per	2022 - No update.	While the MS4 communities have
	Pilot	success of a pilot project	Municipalities, Centre	HUC12 pilot		permit compliance coordination	S4 permit		implementatio	year		a strategy in place to implement
	Variables to consider:	area where MS4 regulated	County Agricultural	area		among sectors	requirement		n, if the pilot			the current PRP, and while the
	# of Farms/Forest	areas and non regulated	Preservation Program,				coordination		works, 1 FT		Township engineer to brainstorm pilot project areas	current permit status
	preserved within the	areas can benefit from	the Centre County						MS4		that would be potential candidates for a more cost	(extension/new MS4s) is
	Corridors of Opportunity	achieving sediment and	Farmland Trust, Centre				Project		Coordinator, 1	concept is	effective and local water quality beneficial approach	unknown, there is little
	(COO)	9	County Conservation				opportunity		PT ag	developed and	to implementing their MS4 Pollutant Reduction Plan	opportunity to explore
	 Miles of riparian buffer 		District, Clearwater				ideas		Coordinator	cost-savings are	(PRP). Because cost effective projects have already	implementation of an offset pilot.
	created within COOs.		Conservancy, Spring							calculated	been identified across all of the MS4s in the county,	
	• # of Ag. BMPs established		Creek Watershed						Project design		we will explore candidate projects over the life of the	
	within COOs.		Commission, Trout						and		CAP but will likely not pursue implementation of any	
	 Miles of Stream 		Unlimited (Spring Creek						construction		until the municipalities' next MS4 permit application	
	stabilization and restoration		Chapter), Penns Valley								requirement is known.	
	within COOs.		Conservation									
	 Spring Creek Watershed- 		Association Association									
	Resource Monitoring											
	Quarterly Progress											
	# SWM facilities											
	maintained within municipal											
	park systems											
	 Acres of Preserved Open 											
	Space and Environmentally											
	Sensitive Areas											

			Phase	3 Watershe	ed Impleme	ntation Plan (WIP) Planr	ning and Pro	ogress Tem	plate – CEN	TRE COUNTY	,	
		Green - action h	as been completed or is	moving forwa	rd as nlanned	Vallow - action has encounte	red minor obst	acles Red -	action has not	heen taken or h	as encountered a serious barrier	
	I	<u>orcen</u> detion i	las seem completed of it	moving for wa		detion has encounted		s Available		es Needed		
Action #	Description	Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Technical	Financial	Technical	Financial	Annual Progress to Date (2021 + 2022)	Reason for Change to Action Item (2023-2024 milestone period)
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	Conservancy Stakeholder peer review - PSU, USGS, Farm Bureau,	Centre County	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	Conservation Tools General Methodology Outline BMP Field backcheck	N/A	Further GIS and data processing/me thod 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	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. 2021 - Funding for the initial BMP cataloguing project has not been obtained. HRG and Chesapeake Conservancy are working on a white paper that will be presented to DEP. THIs white paper outlines the need for more remote sensing work to be done, specifically, by taking next steps with the NRCS PA BMP Remote Sensing Pilot Project (Potomac River Basin) process and findings. By taking this step, the initiative is behind schedule and not yet funded, but we hope to build momentum toward a successful outcome, including buy in from EPA/Bay Program.	
	project opportunities using automated means	restoration Back check with staff field	Conservancy	Centre County		Different data set scales/precision	Precision Conservation Tools Batch Upload Processing BMP Field Check	N/A	Further GIS and data processing/ method refinement	\$44,000 (2021)		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.

		Croon action h	nas been completed or i	is moving forwa	rd as planned	Yellow - action has encounte	rad minar abet	aclos Pod	action has not	hoon takon or h	nas encountered a serious barrier	
		<u>Green</u> - action r	las been completed of 1	is moving forwa	ra as piannea	<u>renow</u> - action has encounte		s <u>Available</u>		ces <u>Needed</u>	as encountered a serious parrier	
Action #	Description	Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Technical	Financial	Technical	Financial	Annual Progress to Date (2021 + 2022)	Reason for Change to Action Item (2023-2024 milestone period)
2.2	Improve continuous data collection on urban structural and non-structural practices	Add development-related BMPs to CAST/FieldDoc so that as land use data sets are updated, there are accompanying BMPs	Municipal engineers, Bellefonte Borough, Chesapeake Conservancy?	Urban/suburba n landscape		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)	Reporting platform	N/A	Training Municipal Data Input	N/A Assume \$5000 administrative cost per municipality per year and 7 developing municipalities -3 \$35,000 per year	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	Still a relevant action; extended
2.3	Implement a documentation- program for commercial and- homeowner nutrient- applications in developed- lands	Support fertilizer legislation—where legislation requires-reporting, be the data-clearinghouse	Centre County department to be- determined	Countywide	TBD	Education of responsible parties, receiving timely information, training on reporting system, will need direction from State on what's expected and any reporting system that's developed		TBD	TBD	TBD	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. 2021 - This initiative is being pursued by legislators. HRG has coordinated with the Chesapeake Bay Commission staff on the topic and receives periodic updates.	Counties are not identified in the legislation as a lead on this initiative.

			Phase	e 3 Watershe	d Impleme	ntation Plan (WIP) Planr	ing and Pro	gress Temp	plate – CEN	TRE COUNTY		
		<u>Green</u> - action h	as been completed or i	is moving forwa	rd as planned	Yellow - action has encounted	red minor obst	acles <u>Red</u> - a	action has not	been taken or ha	as encountered a serious barrier	
							Resources	<u>Available</u>	Resourc	es <u>Needed</u>		
			Responsible			Potential Implementation						Reason for Change
			Party(ies) and	Geographic	Expected	Challenges or					Annual Progress to Date	to Action Item
Action #	Description	Performance Target(s)	Partnerships	Location	Timeline	Recommendations	Technical	Financial	Technical	Financial	(2021 + 2022)	(2023-2024 milestone period)
Priority	Initiative 3: Achieve N	ew Pollutant Reduction	ons									
3.1	Implement BMPs from	Design and install four	CCCD, NRCS,	Centre County	2021-2025	Having enough in-house	Design,	N/A	N/A	Assume 5	2022- Existing plans and verified BMPs continue to	
	Growing Greener plan	manure management	Chesapeake Bay	ag land		technical assistance capacity to	construction			projects per	be reported through PracticeKeeper. As of	
	•	systems and AHUAs per year				see projects from concept	oversight			year, \$440,000	8/15/2022, projects to install four manure	
		(20 systems total)	Chesapeake			through construction				each,	management systems or protected AHUAs have been	
			Conservancy							\$2,200,000 per	completed, one more is expected to be completed by	
		13 acres of treated area,								year	the end of the year and another by spring of 2023.	
		assuming we build 20 more								(construction		
		loafing lots (5 farms per								and technical	2021 - The majority of plans drafted to date have	
		year)									documented existing BMPs. Those plans and BMPs	
										M total (2023-	are being reported through PracticeKeeper,	
										2025)	contributing to our overall goals.	
											As plans are written, Plan Writers will write in BMPs	
											that can be implemented within 3 years of the plans'	
											date of development. The Growing Greener Plan	
											Writing Grant is mostly dedicated to assisting farms	
											with plan development and documentation of BMPs	
											already implemented on the operation. The District	
											has other Growing Greener grants dedicated to	
											installing new BMPs to protect resource concerns on	
											Centre County operations as well as CAP Block Grant	
											funding and CEG Grant funding.	

							Resources	<u>Available</u>	Resourc	es <u>Needed</u>		
Action #	Description	Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Technical	Financial	Technical	Financial	Annual Progress to Date (2021 + 2022)	Reason for Change to Action Item (2023-2024 milestone peri
3.2	Implement Halfmoon WIP	WIP approval – 2021	Chesapeake Bay	Halfmoon	2021-2025	Funding, landowner interest in	Outreach and	\$5,000	Design,	\$4,700,000	2022 - A Halfmoon WIP implementation team is	Add land retirement to be
			Foundation, Centre	Watershed –		BMPs, implementation partner	coordination		permit,		being co-lead by Chesapeake Bay Foundation and	consistent with BMP template.
		Implementation Grant	County Conservation	Halfmoon		coordination			construction	Land Retiremen	Chesapeake Conservancy. Centre County	Verification will achieve some of
		Application – 2022 – see	District, Dr. Preisendanz	Township and					oversight	\$500 per acre:	Conservation District applied for 319 funding to	the 178 acre goal.
		plan (when approved) for	Lab Group of Penn State	Ferguson						\$89K total	implement early action projects in the watershed	
		BMP specifics	University, DCNR,	Township							that are not already funded by the non-profit	
			Chesapeake								partners.	
		· ·	Conservancy, Western									
			Pennsylvania								2021 - The Halfmoon WIP was approved by EPA. The	
			Conservancy, Keystone								plan development partners plan to get together in	
		Implement land retirement									late summer/early summer to discuss next steps and	
		to pasture - 178 acres. BMP	• •								will likely apply for 319 funding in Spring 2022.	
		verification will support the	_									
		_	Environment Center,									
			Huntingdon County									
			Conservation District,									
			ClearWater									
			Conservancy, Partners									
			for Fish & Wildlife, Penn State Extension, USDA									
			ARS Pasture Systems									
			and Watershed									
			Management Research									
			Unit									
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Action #	Description	Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Technical	Financial	Technical	Financial	Annual Progress to Date (2021 + 2022)	Reason for Change to Action Item (2023-2024 milestone period)
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	Chesapeake Conservancy and the	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	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 restoration within rapid stream de-listing catchments. This fall we have 6 additional projects fully funded where restoration will begin in rapid stream de-listing catchments. These include an additional 18.3 acres of forest buffer, 2.2 acres herbaceous buffer, 4 acres of wetland restoration, and 11,172 linear feet of streambank fencing.	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
3.4		CAST, collect environmental	Commission, DEP Northcentral Regional Office, local watershed	Countywide	2024-2025 – investigation 2022 – next- steps	Stakeholder interest, treatment challenges	CAST insight Hatchery operation insight	•	Monitoring study	N/A	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.	Extended the timeline to allow for additional time to investigate solutions.

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Action #	Description	Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Technical	Financial	Technical	Financial	Annual Progress to Date (2021 + 2022)	Reason for Change to Action Item (2023-2024 milestone period)
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, 2,800 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 recommendati ons/equipmen t/software	\$10 per acre of advanced nutrient management planning per typ: total cost for all is \$114,000	2022 - County staff turnover led to a loss in	Added BMP goals to the template to be consistent with the BMP template. Goals remainded the same from 2020.
3.6	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 10,000 8,000 acres and high residue/no-till of 24,000 42,000 acres. On an annual basis implement 7,000 12,000 acres of traditional cover crops and 19,000 15,000 acres of cover crops with fall nutrients.	Bureau	Ag land use countywide	2022 – investigation 2023 – next steps	Capacity to manage the program, landowner interest	Transect survey Landowner education	N/A	Capital RC&D Improved Data Reporting	year: \$1.08M for a 3-year total of \$3.24M (incentive payment, capita RC&D) \$50 per acre fall	2021 - Additional documented no-till/cover crop practices this year, not inclusive of all recently rentered plans in PracticeKeeper as documented in the GG Grant-funded plans - 1,041 – No till acreage 638 – Cover crop acreage 1 405 – Strip crop acreage Additional no-till operations are anticipated to come on line in the coming years as a result of 2021 REAP applications.	decreased cover crops with fall nutrients because of increased traditional cover crops.

							Resource	s <u>Available</u>	Resourc	es <u>Needed</u>		
			Responsible Party(ies) and	Geographic	Expected	Potential Implementation Challenges or					Annual Progress to Date	Reason for Change to Action Item
Action #	Description	Performance Target(s)	Partnerships	Location	Timeline	Recommendations	Technical	Financial	Technical	Financial	(2021 + 2022)	(2023-2024 milestone period
3.7	Implement more pasture	Off stream watering without	CCCD, NRCS,	Centre County	2025	Landowner education, BMP	Landowner	CBF grant	N/A	Prescribed	2022 - Phase 1 of BMP verification identified 149	Lower streambank exclusion
	management BMPs	fencing – 1,460 acres/10	Chesapeake Bay	ag lands –		funding for non-buffer work,	education			grazing: \$2.16M	potential hits for streambank exclusion fencing. This	fencing BMPs to be realistic give
		farms	Foundation,	landowners		plan updates, data gathering					data set will allow for increased reporting of buffered	timeline. Some BMP verification
			Chesapeake	who raise			Data gathering			FB Buffer with	acres with exclusion fencing. Further, the	will assist in meeting the goals.
		Pasture Alternative	Conservancy	horses, dairy,			through Bay			Excl: \$525,000	Conservation District is hoping to partner with	Updated the financial resources
		Watering – 2,600 acres		beef			Tech visits				Capital RC&D's grazing program professionals. A	needed with new budgets.
										GB Buffer with	meeting is scheduled in summer/fall 2022 to discuss	
		Prescribed grazing – 4,000								Excl: \$137,500	the opportunity.	
		acres (50% by reporting)										
										Pasture	2021 - Additional documented BMPs this year, not	
		Horse pasture management								Alternative	inclusive of all recently entered plans in	
		– 50 acres/3 farms								Watering:	PracticeKeeper -	
										\$1.3M	222 – Prescribed Grazing acreage	
		Forest buffers on fenced										
		pasture corridor – 365 100									Anecdotally, there is less pasture on operations than	
		acres (50% by reporting)								Watering: \$730K	previously reported, so these targets may not be	
											realistic.	
		Grass buffers on fenced								Horse Pasture		
		pasture corridor – 1,127 286								Management:		
		acres (50% by reporting)								\$25,000		

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Action #	Description	Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Technical	Financial	Technical	Financial	Annual Progress to Date (2021 + 2022)	Reason for Change to Action Item (2023-2024 milestone period)
3.8	Riparian buffer and reforestation 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) 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 200 25 acres – urban forest planting – target one large landowner in urbanized area	ClearWater Conservancy, CBF, watershed associations, Chesapeake Conservancy, Western PA Conservancy	Centre County	2022 – line up landowners 2023-2025 –	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 ClearWater Conservancy serves as the lead site coordinator	Materials Mapping	Budget available to be determined	Implementatio		` '	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		Assume \$300,000 for- land acquisition Assume \$100,000 \$11.5 M project budget (design, permit, construction)	capacity has limited the communication with the	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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Action #	Description	Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Technical	Financial	Technical	Financial	Annual Progress to Date (2021 + 2022)	Reason for Change to Action Item (2023-2024 milestone period)
3.9B	Wetland restoration implementation	Identify 1 large property owner from University of Vermont restorable wetland	Wildlife for Everyone, ClearWater Conservancy, Western PA Conservancy	Priority watershed (ag or non-ag)	ID landowner (2023) Funding (2024) Design/ permit (2025) Construction (2026)	for ClearWater, landowner participation, permitting,		N/A	Preliminary design	\$500,000 See 3.9A	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.	Extended the timeline to account for needing a non-County stakeholder to be the lead.
3.10	Non-urban stream restoration	verified stream restoration	· ·	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	- \$14 M for total	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.	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.	CCCD, Chesapeake Conservancy, NRCS	Livestock farms	2021-2025	Mapping challenges, typical logistics regarding landowner buy-in and project development/funding	N/A	N/A	program management and project delivery	\$9 M total Barnyard Runoff Control \$250K per project, assume 1 acre per project	-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.	Total goal remained the same. BMP verification is needed to reverify lost acreage.

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					1			<u>Available</u>	Resourc	es <u>Needed</u>		
Action # 3.12	Description Animal waste management BMP implementation for livestock	Performance Target(s) 8,500 7,400 AUs managed through new BMPs	Responsible Party(ies) and Partnerships CCCD, SCC, CEG Program (future years)	Geographic Location Livestock farms		Potential Implementation Challenges or Recommendations 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	Technical Project implementatio n – 2 farms/year Project	Financial Assume	construction services	each, \$260,000- per year, \$1.3 M total Animal waste management	2022 - BMP Verification Phase 1, shows the potential to report an additional 110 animal waste storage facilities currently not reported through PracticeKeeper.	Reason for Change to Action Item (2023-2024 milestone period) 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	Township- and/or Spring- Township	approval (2021- 2022) Design/permitt ing (2023)	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	2021 - This initiative is on hold pending updates from DEP to the mitigation banking process, regulatory	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		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	Assume \$5000 administrative cost per	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.	to be consistent with the BMP

			as been completed or i	<u> </u>		<u> </u>	Resources			es Needed	as encountered a serious barrier T	
Action # 3.15	Description MS4-related Chesapeake Bay	Performance Target(s) Plan implementation by end	Responsible Party(ies) and Partnerships Harris Township, Patton	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations Municipal capacity to implement	Technical Municipal	Financial	Technical	Financial \$4.5 M overall	Annual Progress to Date (2021 + 2022) 2022 - MS4s continue to implement their joint PRP.	Reason for Change to Action Item (2023-2024 milestone perio
3.13	· · · · · · · · · · · · · · · · · · ·	of current permit term	• •	planning area		plans (technical, financial)	engineer design/permit, construction readiness		1	project budget	, ,	accordance with the MS4 Partners' permit deadline. Added BMP goals to the templato be consistent with the BMP template. Goals remainded the same from 2020.
3.16	to Meadow	Promote new program and enable one large tract landowners' participation (20 acres of conversion)	CCPC, DCNR, Western PA Conservancy, ClearWater Conservancy, Penn State Ag/Turf Program	Developed areas in Centre County municipalities	2023-2025	Landowner education and acceptance	Planting plan assistance	N/A		\$5,000 per acre (forest), \$2,500 per acre (meadow) → \$1050,000 (budget for all forest)	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.	Updated the expected timeline since the approach is included i 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	(2021)	Lack of local interest, property- purchase/donation, suggested- to explore below South Hills- Plaza, streets perpendicular to- Easterly/Westerly Parkway	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.	Not a high priority and MS4s don't need it for Joint PRP implementation.

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Action #	Description	Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Technical	Financial	Technical	Financial	Annual Progress to Date (2021 + 2022)	Reason for Change to Action Item (2023-2024 milestone period)
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	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. 2021 - Current Conservation District records indicate that the cumulative goal of 200,000 feet has been met, but the last CAST reporting run (2018) indicated that only about ¼ of that has made it to CAST. We'll need to rectify that with our DEP partners, including potential reverification of projects that were completed before 2010. Also, funding has been used for stream crossings, which have many benefits, though do not result in significant project length. A place to report these positive impacts should also be identified, or Conservation District staff should be trained, for reporting those improvements as they also result in sediment and nutrient reductions.	
3.19		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	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. 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.	Extended the timeline because this is still an important piece of the overall BMP installation strategy.

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					Expected Timeline		Resource	s <u>Available</u>	Resourc	es <u>Needed</u>		Reason for Change to Action Item (2023-2024 milestone period)
Action #	Description	Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location		Potential Implementation Challenges or Recommendations	Technical	Financial	Technical	Financial	Annual Progress to Date (2021 + 2022)	
3.20A	Private Funding	Identify some private funding sources that may be	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	2022 - HRG and LFT are exploring potential opportunities to apply to the Foundation for Food & Agriculture Research (FFAR) and the Walton Family Foundation's new program, Achieving Conservation through Targeting Information, Outreach and Networking (ACTION) to support innovative research that increases adoption of conservation practices. A potential grant application would bolster farm visits in Centre County to increase the adoption of Conservation Practices. 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.	Extended the timeline because
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	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. 2021 - We are on track to complete the list of potential funding partners during 2021.	Extended the timeline to account for new BIL funding being distributed through State and Federal programs through 2026.
	Public/private Farm BMP sponsorship program	, -		Centre County	2024-2025	Corporate interest,	Initial coordination	N/A	N/A	N/A	2022 - No progress. See progress under 3.20B as this is a companion initiative. 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.	for new BIL funding being distributed through State and Federal programs through 2026.

	Phase 3 Watershed Implementation Plan (WIP) Planning and Progress Template – CENTRE COUNTY												
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Action #	•	Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources Technical	Available Financial	Resourc Technical	es <u>Needed</u> Financial	Annual Progress to Date (2021 + 2022)	Reason for Change to Action Item (2023-2024 milestone period)	
4.1A		Education, and Traini 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		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	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.	concept continues to evolve and improve.	
4.1B	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			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		\$10,000 EQUIPMENT	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	1	

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Action # 4.2		Performance Target(s) Share each other's social media content	Responsible Party(ies) and Partnerships 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	Geographic Location	Expected Timeline Ongoing	Potential Implementation Challenges or Recommendations 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	Resources Technical	Financial Limited match	Resourc Technical	Financial \$5000 per organization to produce promotional materials (hats, shirts, stickers) for members	Annual Progress to Date (2021 + 2022) 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 county and local watershed associations rebuilt. 2021 - COVID-related restrictions and delays on last year's projects have resulted in fewer organizational meetings than in past years. Organizations that are project-focused continue to work with landowners, solicit funding, and complete designs and construction at a pace of a about four projects per organization per year. They all continue to need additional membership, grant funding, and technical assistance to scale efforts up, though fortunately implementation has not slowed down.	Reason for Change to Action Item (2023-2024 milestone period)
4. 3	Farm decision maker trips to showcase BMPs that work	peers with a co-benefit of diversifying their membership Two trips per year, increase participation by 10% each year	CBF, CCCD, NRCS, County Farm Bureau	Centre County	Fall and Spring of each year	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	N/A	Trip- coordination and field- facilitation	N/A	\$2000 per year- to expand- resources	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.	Focus on the communications strategy so that we're more strategic about our human/financial resources.