							2023 Phase 3 Watershed Implementation I						
Total Content of the Content of th				Responsible Party(is) and	Geographic	ireen - action has bee	n completed or is moving forward as planned <u>Yellow</u> - action	Resources <u>Av</u>	railable	Resour	rces <u>Needed</u>		to Action Item
Part of the control	Action #	Description	Performance Target(s)	Partnerships	Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Technical	Financial	Technical	Financial	(2021 to 2023)	(2023-2024 milestone
Property of the control of the con	Priority	Initiative 1: County Pr	ogrammatic Initiatives										
March Services   Ser	1.1	· ·		All municipalities in Dauphin	Countywide			Planning, grant			\$130,000 per year		
Part				County		intergovernmental		-				· · · · · · · · · · · · · · · · · · ·	
Second Continue of Continue			for participation					coordination		_		MS4 credit being a co-benefit in the next permit term.	
Proceedings		Program				agreement	·			Commission	startup funding	2002 71	
Part						2022 :	would impact the anticipated cost savings.					· · ·	
Section State State   Control of the Control of t			participating municipalities									advisory committee meetings projected to occur during 2022 Q4.	
Security of the control of the contr	1.2	Advance local	Consider intersection of areas of high	Northern Dauphin Municipalities	Wiconisco		Reinforcing the municipal role in coordinating with the water	Coordination of		1 – ETE Clean Water	\$130 000 per year	2023: No progress to date	
Service (an in the control of the co	1.2		_	1			_ · · · · · · · · · · · · · · · · · · ·				\$150,000 per year	2023. No progress to date.	
Secretary of the control of the cont			The state of the s	*			·	-				2022: No progress to date.	
Process of the control of the cont							=			-			
Market for the control of the cont		Implement existing Source	communication strategy with municipal		Other		· ·						
Part of the second of the control		Water Protection Plans	and landowner stakeholders in mind for	r	watersheds	savings for				Source Water	\$100,000		
1-32   Market with the column of the colum			BMP goals and quantitative action		where feasible	treatment (DCCD				Protection Plan			
one wild first could be considered from the country of the country						Data)				development			
Procedure of the control of the co	1.3*	Evaluate areas to establish	Utilize public data sets (future	Municipalities, Conservation	Countywide,	2022-2025 (MS4	Adopting ordinances, may require a pilot project in a willing	Landowner		1 – FTE Clean Water	\$130,000 per year	2023: Utilizing CAP funds, DCCD is installing 3.5 acres of buffers across two sites in Spring 2024.	
Modernate with the control of the co		•					municipality to demonstrate success.						
Center of Concession C										_		A 2024 project has been identified with the Manada Conservancy which will account for 6+ acres of buffers.	
Company Content and Content of Appendix and Content		encroachment	<u>opportunities</u>							Commission			
Second Continues of Continues						municipalities)	for forest buffers.	execution		4 4 1 100	4420.000		
Service of the servic							B. ff - f - dis-				\$130,000 per year	sites and neiping to recruit members.	
Authorized and antique and a second process of the					iands								
Association Sequence Promoting Appealancy (Sequence Promoting Sequence Promoting Appealancy Company (Sequence Promoting Appealancy Comp				**							Evnand Ruffer Ronus	2022: DCCD has a few huffers planned to be implemented within the next year from a legacy of landowner outreach with little	
Comment of the state of the s							volunteers to establish the burier.				1 '		
County Wood County Assessment   County Wood										District			
Accession												The same of same the too.	
Lit   Implement Country Search   Country Ferring   Country Ferri				· ·								Ag producers are looking to plant buffers as well, the largest being 11-12 acres. To be planted within the next year.	
Company   Comp													
More procedured from the processor of the procedured of the processor of the processo												PSU Extension Master Watershed Stewards and Ag and Enviro. Center staff have established a Riparian Ranger Program in	
Integrate Management Control (1997) And 150 Plane  Dispersion Management Control (1997) And 150 Plane in control (1997												Dauphin County and will be recruiting for members in early 2023.	
In programs of Management (and Logical Auto-Controlled Controlled	1.4	Implement County Hazard	See 2021 Hazard Mitigation Plan for	Municipalities, Planning	Countywide	2022 – review	Flood controls can, if considered in design and maintained,	CRS program		1 – FTE Clean Water	\$130,000 per year	2023: Annual review is scheduled for September 2023. Updates and additional information will be included based on public	
Execution and administration (Continue)    Prior   Marked Microscopy Chanagement   Agencies A Placific Microscopy Chanagement   Agency Chanagement   Agen		Mitigation Plan &		Commission, Dauphin County		trouble spots and	capture pollution.	guides		Coordinator for		and shareholder input. Funding is being sought for the next complete update.	
Age-offs, Null-Wards Copartments Copartmen		Emergency Management		- ' - '						-			
Departments   Departments   Departments   Departments   Processor   Departments   Processor   Departments   Processor   Departments   Processor   Departments   Departme		Plan								Commission		2022: Mapping of flood prone areas has been completed.	
Fig.			BRIC funding							n			
areas, furtings and section of the s				Departments			difference.			-	¢E 000 000		
Control to implement							Consider pairing up flood mitigation with a resilient park				\$5,000,000	Militigation grants.	
Milesobury Branch Brought/person Townhip?  1.5* At 167 Plan  Dasphin Country X-At 167 Plan is own Disphared in framing to implicate the Milesobury and supplies in the Patasing watershed for future projects.  1.5* At 167 Plan  Dasphin Country X-At 167 Plan is own Disphared in framing to implicate the Milesobury and supplies in the Patasing watershed for future projects.  1.5* At 167 Plan  Dasphin Country X-At 167 Plan is own Disphared in framing to implicate the Milesobury and supplies in the Patasing watershed for future projects.  2.5* Continue to implicate the world require/meemblake additional responsibility updating this plan funding is available.  2.5* Continue to implicate the world require/meemblake additional responsibility of manufacture for the possibility of manufacture for the possibility of manufacture for the manufacture for the possibility of manufacture for the manufacture					areas.	Strategy				-		Creation of a Dedicated Hazard Mitigation Position	
Borough (higher part)   Part					Millershurg					Construction		Cleation of a Dedicated Hazard Milligation Position	
Paston Pa					_	r	enjoy the area.			Flood elevation		>\$250,000 acquisition of a duplex in the Paxtang watershed for future projects.	
3-Nuncical Spanners  Act 167 Plan  Dauphin Country's Act 167 Plan is over 10 years old. Epiper the feability of updating first pain if honding is you planting first the model stormwater ordinance that would require/incremitive additional protections for streams  I.6* Committee to mplement Country Farmhand Preservation Program  Estimated that (6) farms per year are preserved. Total goal of 24 over the ment 4 years.  -1.00 carses of farmhand contenvation—begin in fall of 2021  Begin outreach campaign in fall of 2021  Begin outre													
1.5° Act 167 Plan Duphin County's Act 167 Plan is ower 10 years olf, Explore the feasibility of updating this plan if funding is available.  Re-visit the model stormwater ordinance that would require/incentive additional precisions for steams  1.6° Continue to Implement County Familiand Preservation Plagram and Preservation Plagram and Preservation Plagram and Preservation Plagram are preserved. Total goal of 2-8 over the next 4 years.  1.5° Act 167 Plan is ower 10 years old, Explore the feasibility of updating their plan if funding is available.  Re-visit the model stormwater ordinance that would require/incentivize additional precisions for steams  1.6° Continue to Implement County Familiand Preservation Plagram and Preservation (193 familiand pr												\$200,000 secured for a shovel ready project at the McKelvey Bridge project in Middle Paxton Township.	
1.5° Act 167 Plan Duphin County's Act 167 Plan is ower 10 years olf, Explore the feasibility of updating this plan if funding is available.  Re-visit the model stormwater ordinance that would require/incentive additional precisions for steams  1.6° Continue to Implement County Familiand Preservation Plagram and Preservation Plagram and Preservation Plagram and Preservation Plagram are preserved. Total goal of 2-8 over the next 4 years.  1.5° Act 167 Plan is ower 10 years old, Explore the feasibility of updating their plan if funding is available.  Re-visit the model stormwater ordinance that would require/incentivize additional precisions for steams  1.6° Continue to Implement County Familiand Preservation Plagram and Preservation (193 familiand pr													
Daughin Country Act 157 Plan is over 10 purpose the feasibility of updated this plan if funding is available.  Revisit the model stormwater ordinance that would; require/incentivise additional protections for streams of the funding of the program currently - 18,546 search of program of an annual protections for streams of the program currently - 18,546 search of program of an annual protections for streams of the program currently - 18,546 search of program of an annual besides of the program currently - 18,546 search of th										3– Municipal		\$500,000 project in Penbrook Borough.	
10 years old. Explore the feasibility of updating this plan if funding is available.  Re-vist the model stormwater ordinance that would require/incentivitie additional protections for streams  1.6* Continue to Implement County farmland preservation Program Preservation Program Preservation Program Preservation County farmland on servation Program Preservation County of the Coun													
updating this plan if funding is available.  Re-wist the model stormwater ordinance that would require/incombine, additional protections for streams  1.6* Continue to implement County Farmland Preservation (193 farms and preserved In Otal Farmland preservation (193 farms are required in Conservation). Begin outreach campaign in fall off 2021  8.6* Continue to implement County Farmland Preservation (193 farms are required in Conservation). Begin outreach campaign in fall off 2021  8.6* Continue to implement County Farmland Preservation (193 farms are required to have an NRCS Conservation). Begin outreach campaign in fall off 2021  8.6* Continue to implement County Farmland Preservation (193 farms are required to have an NRCS Conservation). Criteria  8.7* Continue to implement County Farmland Preservation (193 farms are required to have an NRCS Conservation). Criteria  8.7* Continue to implement County Farmland Preservation (193 farms are required to have an NRCS Conservation). Criteria  9.7* Continue to implement County Farmland Preservation (193 farms are required to have an NRCS Conservation). Criteria  9.7* Continue to implement County Farmland Preservation (193 farms are required to have an NRCS Conservation). Criteria  9.7* Continue to implement County Farmland Preservation (193 farms are required to have an NRCS Conservation). Criteria  9.7* Continue to implement County Farmland Preservation (193 farms are required to have an NRCS Conservation). Criteria  9.7* Continue to implement County Farmland Preservation (193 farms are required to have an NRCS Conservation). Criteria  9.7* Continue to implement County Farmland Preservation (193 farms are required to have an NRCS Conservation). Criteria  9.7* Continue to implement County Farmland Conservation. Preservation (193 farms are required to have an NRCS Conservation). Criteria  9.7* Continue to implement County Farmland Conservation. Criteria  9.7* Continue to implement County Farmland Conservation. Criteria  9.7* Continue to implement County Farmland Conserv	1.5*	Act 167 Plan	· ·	, ,	Countywide		Should local involvement exist additional responsibility.	T T			\$130,000 per year	2023: Dauphin County applied for a Growing Greener grant.	
available.  8e-wist the model stormwater ordinance that would require/incentivize additional protections for streams  1.6* Continue to implement. County Farmland Preservation (193 farms Preservation Program County Farmland Preservation Prese							L						
Revisit the model stormwater ordinance that would require/incentifive additional protections for streams  1.6* Continue to implement County Farmland Preservation (199 farm in program currently – 18,546 acres) Preservation Program Preservation Coordinator, NRCS, Oncorrevation Plans outleted by Preservation Pre				engineers and solicitor			Finding funding to update a Countywide Act 167 Plan.			- U	¢350,000 f		
Revisit the model stormwater ordinance that would require/incentivize additional protections for streams or protections for such as a supplemental protection for preservation through 2023. There are 11 left on the list to be preserved.  2022: Five farms are planned for preservation through 2023. There are 11 left on the list to be preserved. Supplemental for preservation specifical protections, plan with garding for preservation through 2023. There are 11 left on the list to be preserved. Supplemental for preservation through 2023. There are 11 left on the list to be preserved. Supplemental for preservation for Conservation protections, plan for line for preservation for protections, plan for protections, plan with garding for preservation for protections, plan for p			available.				look of DED funding for plan ( = d-t-			Commission		Daupnin County will explore the possibility of updating their current plan.	
ordinance that would require/incretivities additional protections for streams  1.6* Continue to Implement County Farmland Preservation Program Preservation Program Estimated that (6) farms per year are preserved. Total goal of 24 over the next 4 years.  1.50 Continue to Implement County Farmland Preservation (1931 farms in program counternly - 18,546 acres) Estimated that (6) farms per year are preserved. Total goal of 24 over the next 4 years.  1.50 Continue to Implement County Farmland Preservation (1931 farms in program counternly - 18,546 acres) Estimated that (6) farms per year are preserved. Total goal of 24 over the next 4 years.  1.50 Continue to Implement County Farmland Preservation (1931 farms in program counternly - 18,546 acres) Estimated that (6) farms per year are preserved. Total goal of 24 over the next 4 years.  1.50 Continue to Implement County Farmland Preservation (1931 farms in program counternly - 18,546 acres) Estimated that (6) farms per year are preserved. Total goal of 24 over the next 4 years.  1.50 Continue to Implement County Farmland Preservation (1931 farms in program counternly - 18,546 acres) Estimated that (6) farms per year are preserved. Total goal of 24 over the next 4 years.  1.50 Continue to Implement County Farmland Preservation (1931 farms in program of a conservation of the state of this year are required to have an NRCS Conservation of the list to be preserved in most of the list of the preserved in 2031 totaling 530 acres.  Estimated that (6) farms per year are preserved. Total goal of 24 over the next 4 years.  1.50 Continue to Implement County Farmland Preservation (1931 farms in program of a continue preservation than the search of the year are required to have an NRCS Conservation of the list to be preserved in 2031 totaling 530 acres.  1.50 Continue the preservation through 223: There are 11 left on the list to be preserved.  2022: Five farms are planned for preservation through 2023: There are 11 left on the list to be preserved.  2022: Five farms are planned f			Re-visit the model starmwater			_	Lack of DEP funding for plan update.				rian update		
require/incentivize additional protections for streams.  1.6* Continue to implement County Farmland Preservation (193 farms in program currently — 18,546 acres) Preservation Program  Estimated that (6) farms per year are preserved. Total goal of 24 over the next 4 years.  -1,500 acres of farmland conservation Begin outreach campaign in fall of 2021  Begin outreach campaign in fall of 2021  Begin outreach campaign in fall of 2021  Begin outreach (amplitude) Begin outreach (amp						tacking an upuate							
1.6° Continue to Implement County Farmland Trust and Agricultural Preservation (193 farms are preserved. Total goal of 24 over the next 4 years.  1.6° Continue to Implement County Farmland Preservation Program Unrendly—18,546 acres) Preservation Program Estimated that (6) farms per year are preserved. Total goal of 24 over the next 4 years.  1.5° Do Manada Conservation Plans in program Currently—18,546 acres) Preservation Coordinator, NRCS, Large and the next 4 years.  1.5° Do Manada Conservation Plans in program Currently—18,546 acres) Preservation Coordinator, NRCS, COLD, Manada Conservation Plans in program currently—18,546 acres) Preservation Coordinator, NRCS, COLD, Manada Conservation Plans in program currently—18,546 acres) Preservation Coordinator, NRCS, COLD, Manada Conservation Plans in program currently—18,546 acres) Preservation Coordinator, NRCS, COLD, Manada Conservation Plans in program currently—18,546 acres) Preservation Coordinator, NRCS, COLD, Manada Conservation Plans in program currently—18,546 acres) Preservation Coordinator, NRCS, COLD, Manada Conservation Plans in program currently—18,546 acres) Preservation Coordinator, NRCS, COLD, Manada Conservation Plans in program currently—18,546 acres) Preservation Coordinator, NRCS, COLD, Manada Conservation Plans in program currently—18,546 acres) Preservation Coordinator, NRCS, COLD, Manada Conservation Plans in program currently—18,546 acres) Preservation Coordinator, NRCS, COLD, Manada Conservation Plans in program currently—18,546 acres) Preservation Coordinator Recommendation acre increase Preservation Staff Administrator in specific preservation Plans in program currently—18,546 acres) Preservation Coordinator Recommendation acre increase Preservation Staff Administrator in specific preservation Plans in program currently—18,546 acres) Preservation Plans in program currently—18,54													
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County Farmland Preservation Program Estimated that (6) farms per year are preserved. Total goal of 24 over the next 4 years.  -1,500 acres of farmland conservation Begin outreach campaign in fall of 2021 Begin outreach statewise.  2021—Increase per Plan, work with farmers to ensure Conservation Plan is reported in PracticeKeeper. Recommend to make this a program requirement statewide.  2022-2025 Continue the program on annual basis Begin outreach campaign in fall of 2021 Beg	1.6*	Continue to Implement	F	Farmland Trust and Agricultural	Ag land use	2021 – begin new	Technical assistance to coordinate preservation plans	Priority S	1,750 per	Ag Land	\$130,000 per vear	2023: 6 farms will be preserved in 2023 totaling 530 acres.	
Preservation Program  Estimated that (6) farms per year are preserved. Total goal of 24 over the next 4 years.  -1,500 acres of farmland conservation  Begin outreach campaign in fall of 2021  Begin out		·		_	_	_	The state of the s				, pc. ,ca.		
Estimated that (6) farms per year are preserved. Total goal of 24 over the next 4 years.  In the preserved of 201 – increase per preserved in Criteria acre pay program requirement statewide.  2022-2025 continue the program on annull basis  Generating additional applications is challenging.  Long term administration, no money from the state to monitor track and enforce and easement, more than 100 inspections per year  Estimated that (6) farms per year are preserved in Ctotal goal of 24 over the preserved in Practice(keeper, Recommend to make this a program requirement statewide.  2022-2025 continue the program on annull basis  Generating additional applications is challenging.  Long term administration, no money from the state to monitor track and enforce and easement, more than 100 inspections per year  Long term administration program on deasement, more than 100 inspections per year  [2022-2025 continue the program on annull basis  [2022-2025 continue t			, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				Preserved farms are required to have an NRCS Conservation					2022: Five farms are planned for preservation through 2023. There are 11 left on the list to be preserved.	
preserved. Total goal of 24 over the next 4 years1,500 acres of farmland conservation  Begin outreach campaign in fall 0f 2021  Begin outreach campaign in fall 0f 2021  Continue the program on annual basis  Generating additional applications is challenging.  Long term administration, no money from the state to monitor track and enforce and easement, more than 100 inspections per year  Criteria acre pay reported in PracticeKeeper. Recommend to make this a program recommendation s, supplemental farm walks every two years  Ferommendation s, supplemental farm walks every two years  1 – FTE Clean Water Coordinator for Conservation  District  \$230,000 per year  \$250,000 per farm funded, total of 24		_	Estimated that (6) farms per year are			2021 – increase per							
-1,500 acres of farmland conservation  -1,500 acres of farmland conservation  Begin outreach campaign in fall 0f 2021  Coordinator for Conservation  District  \$250,000 per farm funded, total of 24													
continue the program on annual basis Generating additional applications is challenging.  Long term administration, no money from the state to monitor track and enforce and easement, more than 100 inspections per year  continue the program on annual basis  Generating additional applications is challenging.  Long term administration, no money from the state to monitor track and enforce and easement, more than 100 inspections per year  continue the program on annual basis  1 – FTE Clean Water Coordinator for Conservation  District  \$250,000 per farm funded, total of 24							program requirement statewide.	s, supplemental		farm walks every			
Begin outreach campaign in fall 0f 2021 program on annual basis Generating additional applications is challenging. 1 – FTE Clean Water Coordinator for Conservation  Long term administration, no money from the state to monitor track and enforce and easement, more than 100 inspections per year funded, total of 24			-1,500 acres of farmland conservation					BMP funding		two years			
basis Generating additional applications is challenging.  Long term administration, no money from the state to monitor track and enforce and easement, more than 100 inspections per year  Coordinator for Conservation  District  \$250,000 per farm funded, total of 24							Gaining Plain Sect Involvement	research					
Conservation Long term administration, no money from the state to monitor track and enforce and easement, more than 100 inspections per year  Conservation District \$250,000 per farm funded, total of 24			Begin outreach campaign in fall 0f 2021								\$130,000 per year		
Long term administration, no money from the state to monitor track and enforce and easement, more than 100 \$250,000 per farm funded, total of 24						basis	Generating additional applications is challenging.						
monitor track and enforce and easement, more than 100 \$250,000 per farm funded, total of 24													
inspections per year funded, total of 24										District	¢350.000 °		
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Tallits Solvi	1						inspections per year						
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						2023 Phase 3 Watershed Implementation P	lan (WIP) Plan	ning and P	rogress Report –	DAUPHIN COUNT	1	
		_		<u> </u>		en completed or is moving forward as planned Yellow - actio					encountered a serious barrier	
Action #	Description	Performance Target(s)	Responsible Party(is) and Partnerships	Geographic Location		Potential Implementation Challenges or Recommendations	Resources <u>A</u> Technical		Resour Technical	rces <u>Needed</u> Financial	Annual Progress to Date (2021 to 2023)	to Action Item (2023-2024 milestone
	Establish funding/staff	Approximately 150 farms have their	DCPC, DCCD, Contracted	Countywide	2022-2025	Limited compliance activities by DEP. In 2018 DEP conducted	recimical	Tillalicial	6 – additional Ag	\$780,000 per year	2023: Penn State University is creating a Center for Agriculture Conservation Assistance which will support the agricultural	(2023-2024 Illiestone
1.7	support to assist the	plans in Dauphin County, goal is to	planners, ACT 38 operators,	Countywide	2022-2023	inspections in Northern Tier of Dauphin County and resulted in a			Planners to provide	3780,000 per year	community and train conservation professionals in agricultural BMPs.	
	agricultural community	complete 280 by 2025 (40% of total).	Organic Farmers, Preserved			lot of farmers to get Conservation Plans.			technical assistance		community and train conservation processionals in agricultural similar	
			Farms, integrators						and ag planning		A partnership between Penn State Extension, Lancaster Farmland Trust, and HRG is leveraging funding to initiate targeted	
		Enter Conservation and Nutrient				Lack of Technical assistance to support the farming community					farmer outreach in Dauphin County.	
	692 farms in Dauphin	Management Plans into PracticeKeeper				Private sector Ag plans are not required to be shared with District			3 – FTE Design,			
	County (2017 USDA Census)	Potential implementation challenges				staff.			Engineer, Permit	\$420,000 per year	2022: The Foundation for Pennsylvania Watersheds applied for a Growing Greener grant totaling \$1.6 million to support additional ag engineering needs along with increased farm visits. In 2021 Lancaster Farmland Trust completed 20 farm visits.	
	Census)	(Continued):							3 – FTE Inspector		In 2022 the Lancaster Farmland Trust completed an additional 30 farm visits.	
		In order to communicate effectively				Work with ACT 38, Preserved farms and organic farms to report AG E&S and NRCS Conservation Plans. These operations are			Construction	\$315,000 per year	an Education Farmana Hade completed an additional Solidani Visitor	
		with the farming community one on				required to have plans, but no requirement to report the plans. It			Services		Agriculture Conservation Assistance Program (ACAP) was announced in the Pennsylvania State Budget in July of 2022. This	
		one farmer outreach must be				is recommended state agencies make changes to ACT 38 and					program will provide all counties in Pennsylvania with funding totaling \$154 million over the next 3-years to support Ag	
		conducted. Farmers do not participate				Persevered Farm programs to require PracticeKeeper reporting.			1 – FTE Clean Water		project implementation and technical assistance needs.	
		in outreach events or read information				The most effective way to capture and report BMPs is through one on one farm visits. Farmers do not participate in surveys or other			Coordinator for	\$130,000 per year		
		provided in newsletters.				methods.			Conservation District			
									DISTRICT			
									1 – Administrative			
									Assistant			
										\$75,000 per year		
1.8	University Partnership -	GIS deliverables, stormwater	Harrisburg University, PSU	Countywide,	2022-2025	Continued undergraduate/graduate engagement as students			5 – Student	\$50,000 per year	2023: Dauphin Planning: Two interns on staff in 2023. One was from Harrisburg University and the other was from	
	Implementation	studies/monitoring, BMP field/aerial	Harrisburg, Harrisburg Area	university-		graduate, distance for students to travel.	on the ground		Internships to		Shippensburg University, who was then hired full time by TCRPC.	
		identification, regulatory support	Community College, PSU Ag and	l owned land					Support CAP		2022. Describin Discriptor True internation at 46th 2022. One form Hermitely well this work, and one form Describing in Western	
		Develop undergraduate and graduate	Environment Center (AEC), Shippensburg University,			Lack of technical assistance professionals to mentor students.			Implementation		2022: Dauphin Planning: Two interns on staff in 2022: One from Harrisburg University and one from Pennsylvania Western University, California Campus. The interns contributed toward the data collection and mapping contained on the Water	
		students to support staff with	Widener University, Millersville			students.					Quality and CAP portions of the website.	
		implementation as interns and upon	University, Temple University			Lack of competitive paying job opportunities that ensure						
		graduation				long term sustainable for recently graduated students						
										1		
1.9A	Water quality	Develop messages and audience; execute plan and distribute messaging	Multi-partner, TCRPC as lead	Countywide	2022 – 2025	Simplifying the resources that are available, targeting	Website		Website	\$10,000 per year	2023: The DPJM Countywide Action Plan website and GIS tracking data continues to be updated.	
	communication plan, leveraging existing	through staff and partners	entity building upon environmental aspects			Dauphin County farmers and other landowners	development and continued		development and continued		2022: The DPJM Countywide Action Plan website listed in the Performance Targets has been updated to include information	
	documents and covering	through stan and partners	environmental aspects			Sharing staff resources across the 4-county region	maintenance		maintenance		about implementation of the Countywide Action Plans. Additionally, a GIS tracking data base has been added to capture the	
	topics including hazard	Utilize the DPJM County Countywide				, , , , ,					location of potential projects.	
	mitigation plan, MS4	Action Plan (arcgis.com) - ARC GIS										
	municipalities,	website as a source of consistent										
	comprehensive plan and Act 167	<u>communication</u>							_	\$130,000 per year		
	ACT 167								and Outreach Coordinator			
									Coordinator			
									1 – FTE Clean Water			
									Coordinator for	\$130,000 per year		
									Planning			
1.9B	Utilize local arts and	Identify local businesses that support	Millworks, Payton Creek	Paxton Creek	2022 – coalition	Fortitude to see small projects through to gain momentum			Commission	\$5.00	2 2023: No progress to date.	Initial project idea
2.52	businesses to promote-	water initiatives or need clean water for	Watershed & Education	watershed?	building, one event	and realize general public understanding about stormwater				\$3,00	2225.110 \$10\$, cas to date.	stakeholders from 2021 are
	water quality messaging	their businesses to thrive	Association, Paxton Creek		-	runoff, local stormwater fees may provide a reason for					2022: No progress to date.	no longer involved in the
	and general public		Cooperative (Capital Region-			public to understand what they're paying for, will art						lead organizations, so the
	<del>education</del>	Identify local artists who have a passion	Water, Susquehanna Township,	-		translate to the call to action?						idea hasn't gained traction.
		ioi water/environmentarissues	tower Paxton Township), CBF									
1.9C	Agricultural	Develop a strategy to complete one on	CD, County Farm Bureau,	Countywide	2022-2025	One on one farm outreach is the best way to communicate			6 – additional Ag	\$780,000 per year	2023: A partnership between Penn State Extension, Lancaster Farmland Trust, and HRG is leveraging funding to initiate	
	Communication Strategy	one farm visits.	Integrators, Ag Land			with farmers in addition to reporting practices.			Planners to provide		targeted farmer outreach in Dauphin County. A total of 25 occurred in 2023.	
			Preservation, PSU Extension,						technical assistance			
		Develop a communication plan to	NRCS			Funding to support the technical assistance required to			and ag planning			
		engage integrators.				complete one on one farm outreach			1 – FTE Marketing		2022: Farm visits have been utilized to conduct outreach to farmers about the Countywide Action Plan. In 2021 20 farm visits were conducted and in 2022 an additional 30 visits are scoped. The Foundation for Pennsylvania Watersheds submitted a	
		Utilize Farm Bureau Newsletter for				Outreach to integrators is a challenge due to the number of			and Outreach	\$130,000 per year	Growing Greener grant titled 12-County Investment to Catalyze Agricultural Project Readiness that would support rapid	
		announcements				integrators and multiple country boundaries they serve. It is			Coordinator	\$250,000 pc. year	scaling up of farm visits within Dauphin County. Scaling up of farm visits would allow for additional outreach to occur.	
						recommended DEP/PDA/SCC communicate with integrators					ση στο	
		Partner with pesticide meetings and				on a frequent basis to reduce mixed messages.			1 – FTE Clean Water			
		other AG meetings to provide							Coordinator for	\$130,000 per year		
		information.							Conservation	Soo 1 04 f		
									District	See 1.9A for website costs.		
										costs.		
										Costs for meeting		
										attendance and		
										administration may be		
				1						covered through other		
										funding requests.		
		·	1	1	1	4			1	1	1	1

						2023 Phase 3 Watershed Implementation P	Plan (WIP) Plai	nning and P	rogress Report –	DAUPHIN COUNT	Y	
				<u>G</u>	reen - action has bee	n completed or is moving forward as planned Yellow - actio	n has encountere	d minor obstac	les <u>Red</u> - action has	s not been taken or has	encountered a serious barrier	
Action #	Description	Performance Target(s)	Responsible Party(is) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources Technical	Available Financial	Resoure Technical	ces <u>Needed</u> Financial	Annual Progress to Date (2021 to 2023)	to Action Item (2023-2024 milestone
1.10*	<del>Countywide WQ Credit</del> <del>Offset Pilot</del>	Demonstrate success of a pilot project area where MS4-regulated areas and non-regulated areas can benefit from achieving sediment and nutrient goals	MS4 municipalities that include agricultural land use in the vicinity of the Urbanized Area	MS4 watershed HUC12 pilot- area — Swatara- Greek- watershed?		DEP acceptance of approach, permit compliance- coordination among sectors, farmers in compliance with state and federal regulations			Coordinator for Planning Commission	<del>\$130,000 per year</del> \$130,000 per year	2023: The anticipated need for this has not come to fruition since all of the MS4s in Dauphin County are on track to meet their Pollutant Reduction Plan requirements by their permit deadlines. We will remove it from the CAP due to a lack of need.  2022: No progress to date.	
Priority	Initiative 2: Reporting	and Tracking							<del>District</del>			
2.1*	Existing BMP cataloguing (quantity and location) for select BMPs, expanding on general recommendations provided in QAPP  BMPs = forest buffers, urban forest buffers, grass buffers, urban grass buffers, manure storages,	Expand use of existing buffer layer with urban hydrology layer	Harrisburg, Harrisburg Area Community College, Chesapeake	Countywide	2023 – Practice Keeper batch upload processing and field views	EPA acceptance of the approach, further refine guidance in QAPP so that counties can accomplish this or so that the state can take the burden off of counties, utilize the approach to catalogue existing BMPs and do on the ground verification where required for reporting purposes, this is an accelerated BMP catch up approach while we continue to provide support to farmers on planning and BMP installs, reduce the amount of interruption of government entities on compliant farm operations.	Precision Conservation Tools General methodology outline BMP field backcheck	N/A	processing/method refinement  6 – additional Ag Planners to provide technical assistance and ag planning  5 – Student Internships to	\$46,000 (2022 only) \$780,000 per year \$50,000 per year	2023: No progress to date. Lack of funding for verification and cataloguing is the issue.  In December of 2021, Dauphin County was awarded \$30,000 to conduct Phase 1 of a multiphased BMP verification remote sensing effort. Dauphin County elected to use all 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, wet ponds and 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 ARC Gis Portal. Qualified 3rd party staff will begin field verification efforts to verify the remotely identified practices. A BMP Verification Quick Guide is being developed by HRG to assist with field verification efforts. In April of 2022, the Foundation for Pennsylvania Watersheds applied for a NFWF Most Effective Basins grant to support Phase 2 of the BMP verification analysis in the MEB in Dauphin County. Initial results from Phase 1 look excellent in providing opportunities to take credit for practices on the ground that are not currently reported.	
2.2*		stream restoration Back check with staff field views	Lead - Chesapeake Conservancy Stakeholder peer review – Harrisburg/ SHIP/PSU/Etc. University, USGS, Farm Bureau, PDA, municipalities with MS4 permits, Municipal Engineers, Dauphin County Woodland Owners Association	Countywide	2022 – cataloguing 2023 – batch upload processing and field views 2024 - 2025 – implementation focus	Different data set scales/precision	Precision Conservation Tools Batch upload processing BMP field backcheck	N/A	processing/method refinement 5 – Student	\$46,000 (2022 only) \$50,000 per year	2023: As a part of the Chesapeake Conservancy's Cooperative Agreement with the Chesapeake Bay Program, the CIC has been working to adapt the USDA Agricultural Conservation Planning Framework (ACPF) toolbox and produce its related GIS conservation practice opportunity outputs for the entire watershed. The toolbox outputs a suite of NRCS agricultural practice opportunities at the field scale — some have direct equivalents to Bay Program BMPs, while others do not. Since there are many assumptions made to produce these opportunity footprints across the entire watershed, they are not intended to be ground truth and should only serve as a high level reference for helping to plan efforts in combination with expert on-the-ground input. The outputs are expected to be publicly available after June 2024.  2022: No progress to date.	
	capture data collection on	Add development related BMPs to PK/FieldDoc so that as land use data sets are updated, there are accompanying BMPs	Municipal engineers, Chesapeake Conservancy, DCPC, Tri County Regional Planning, student interns	Urban/suburba n landscape		Currently municipalities are not collecting BMP data because it is not required in non-MS4 communities. Must incentivize communities to report, no existing system in place. FieldDoc would need to be accessible to municipalities to self-report BMPs that are installed and continue to function.	platform	N/A	5 – Student Internships to Support CAP Implementation	N/A \$50,000 per year \$390,000 per year	2023: No progress.  2022: Phase 1 of BMP verification will identify Wet Ponds and Detention Basins in Dauphin County. Field verification will need to occur on these projects. PA DEP has updated FieldDoc to allow for additional reporting of urban practices.	
2,4*	Implement a documentation program for commercial and homeowner nutrient applications in developed- lands Support current legislation	Support fertilizer legislation – where legislation requires reporting, be the data clearinghouse  Legislation will support the implementation of Urban Nutrient Management – 1,000 acres	PSU Extension, PDA	Countywide	TBD based on- fertilizer legislation if passed	Education of responsible parties, receiving timely information, training on reporting system, will need-direction from State on what's expected and any reporting system that's developed.	TBD based on- fertilizer- legislation if passed	TBD based or fertilizer legislation if passed	Planner  1 — FTE Clean Water Coordinator for Planning Commission	\$130,000 per year Urban Nutrient Management \$10 per acre à \$10,000	2023: No update.  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.	DEP is recognizing conservation landscaping through reporting in FieldDoc. Awaiting DEP's direction on the future of Urban Nutrient Management Plans.
	reporting utilizing PracticeKeeper, Capital RC&D Transect Survey, PSU Survey, Manure	Increase reporting of agriculture plans into PracticeKeeper.  Work with Capital RC&D to improve current transect survey routes to be more inclusive.  Work with PSU to produce better response rate to the PSU survey for Dauphin County.  Work with PDA/DEP to improve manure transport reporting.	Dauphin County Farm Bureau, Capital RC&D, Chesapeake Conservancy, PSU Survey, Manure Brokers	Countywide		Private sector ag planners do not have access to PracticeKeeper. Ag planners do not have time to report into PK.  Current Capital RC&D routes are not all inclusive and could be improved.  Current response rates are low and miss a large demographic of Dauphin County farmers.  Manure brokers are not required to report data annually. CAST data is not inclusive.			for reporting and	\$50,000 – per year  See 3.5 for funding needs to improve cover crop reporting for Capital RC&D	2023: DCCD participated in the Capital RC&D transect Survey in Spring 2023.  2022: In the Spring of 2022 HRG participated in a beta testing group for the PracticeKeeper 3rd Party Module. PADEP initially released the module in June of 2022 before recalling the system for additional bug fixes. Phase 2 of the BMP verification grant submitted by the Foundation for PA Watersheds includes budget for interns from Susquehanna University to enter BMPs into PracticeKeeper.	

						2023 Phase 3 Watershed Implementation P	lan (WIP) Pla	nning and P	ogress Report –	DAUPHIN COUNTY		
				<u>G</u>	reen - action has bee	n completed or is moving forward as planned Yellow - actio					encountered a serious barrier	
tion#	Description	Performance Target(s)	Responsible Party(is) and Partnerships	Geographic Location	Evnected Timeline	Potential Implementation Challenges or Recommendations	Resources Technical	Available Financial	Resour Technical	ces <u>Needed</u> Financial	Annual Progress to Date (2021 to 2023)	to Action Item (2023-2024 mileston
	<u>.</u>	ew Pollutant Reductions	T di circionipo	20001011	zapecteu rimeinie	- Otensia in prementation diameter geo of neconimentations					(2022 to 2020)	(2020 202 1 1111100001
		Restoration includes naturalized	Capital Region Water, PennDOT,	North Paxton	2021 Begin	Obtaining required permits for stream corridor	N/A	N/A	1 – FTF Clean Water	\$130,000 per year	2023: No progress to date. County, City of Harrisburg, and Capital Region Water have been meeting in an effort to define roles	
	Master Plan	channel, vegetated riparian zones,	City of Harrisburg, PCWEA, HRA,	Creek	implementation	reconstruction, funding to support expensive restoration	,	,	Coordinator for	\$250,000 pc. ycu.	and responsibilities to advance the Master Plan.	
		green space, large parks, multi-use	USGS	Greenway,	·	efforts; plan implementation requires a dedicated, multi-			Planning		·	
		trails		Paxton Creek	Ongoing	jurisdictional team and potentially significant land			Commission		2022: Capital Region Water and CREDC are taking the lead on this project, though many partners are at the table and roles are	
				Park, South	construction and	acquisition					being determined. A partner agreement will be drafted with quarterly meetings. Design funding is being investigated for the	
		North Paxton Park Greenway 7,600		Paxton Creek	maintenance				1 – FTE Clean Water Coordinator for	\$130,000 per year	project. Once the concept design is completed, feasibility and final design will be completed, including eminent domain as	
		linear feet		Greenway					Conservation		needed.	
		Paxton Creek Park 5,300 linear feet							District			
		South Paxton Greenway 5,400 linear							N/A	\$60 - \$90 million dollar		
-		feet	2 227 677 614 11		2024 5 :		21/2	21/2	4 575 01 144	estimate		
	Implement Paxton Creek Master Plan	Provide adequate channel size and flood conveyance to reduce 100-year	PennDOT, City of Harrisburg, PCWEA, HRA, Capital Region	North Paxton Creek	2021 Begin implementation	Obtaining required permits for stream corridor reconstruction, funding to support expensive restoration	N/A	N/A	1 – FTE Clean Water Coordinator for	\$130,000 per year	See 3.1a above.	
	iviastei riaii	flood elevation to 314 feet, provide	Water, USGS	Greenway,	implementation	efforts; plan implementation requires a dedicated, multi-			Planning			
		stormwater retention and treatment	,	Paxton Creek	Ongoing	jurisdictional team and potentially significant land			Commission			
				Park, South	construction and	acquisition						
		Ongoing monitoring conducted by		Paxton Creek	maintenance					\$130,000 per year		
		USGS		Greenway					Coordinator for Conservation			
									District			
									N/A			
										\$60 - \$90 million dollar	•	
2.20	Manada Craek Caldurator	Driggitization of the stream shapped for	DCCD Dog Fritchey Chanter TII	Manada Craak	2022 2025	Williamore of private landouner to implement DMDs that		Coldwater	1 FTE Class Water	estimate \$130,000 per year	2023: Through a partnership with Manada Conservancy and the Hershey Trust, DCCD has identified potential projects for 2024	
	Manada Creek Coldwater Conservation Plan	Prioritization of the stream channel for restoration projects, riparian	Wildlife Program Fort Indiantown			Willingness of private landowner to implement BMPs that will improve water quality.		Heritage	Coordinator for	\$150,000 per year	and 2025.	
	conservation rian	restoration including buffers	-	Gap		maniprove water quanty.		Grant – 2013			UNIT EVES!	
		_	Association, Sewage			Funding to support restoration efforts.		Manada	Commission			
		Establish buffers between MNDA 08.72	The state of the s					Creek			2022: No progress to date.	
		and 07.12	municipalities in the watershed			Lack of technical assistance to promote and support implementation of restoration practices.			1 – FTE Clean Water Coordinator for	\$130,000 per year		
		Stream restoration below MNDA 07.12				implementation of restoration practices.			Conservation			
									District			
		Agriculture BMPs near state Route 443								\$1,000,000 for plan		
										implementation and		
		Education and enforcement of septic tank maintenance								restoration prioritization		
		tank mantenance								prioritization		
) 21-	Clarks Cra-l: C-l:	Dejositionation of the start	DCCD Dea Falk-base of the Title	Clarks Co. 1	2022 2025	Williamore of private landary and in 1 2222			4 FTF Cl 14 1	¢120.000	2022. No progress to date	
	Clarks Creek Coldwater Conservation Plan	Prioritization of the stream channel for restoration projects, riparian	DCCD, Doc Fritchey Chapter TU, Clarks Creek Watershed	Clarks Creek, Middle Paxton	2022-2025	Willingness of private landowner to implement BMPs that will improve water quality.			1 – FTE Clean Water Coordinator for	\$130,000 per year	2023: No progress to date.	
	COSCI VACION FIAM	restoration including buffers, include	Association, Middle Paxton	Township and					Planning		2022: No progress to date.	
		fish habitat restoration, promote	Township and Rush Township	Rush Township		Funding to support restoration efforts			Commission		· ·	
		stormwater management BMPs were										
		feasible				Lack of technical assistance to promote and support			1 – FTE Clean Water Coordinator for	\$130,000 per year		
						implementation of restoration practices			Conservation			
									District	\$1,000,000 for plan		
										implementation and		
										restoration		
1.20	Daviden a WID for Cont	Develop a MID/Altra-tive Bests "	Doe Fritebou TII Door Chate	Caring C1	2022 2025	Funding to support the daysterment of a California			1 FTF Cl 140 ·	prioritization	2022. The Carine Creek (Hershey) Will continue to develop and it is the field	
	Develop a WIP for Spring Creek East	Develop a WIP/Alternative Restoration Plan for Spring Creek that is consistent		Spring Creek – Derry	2022-2025	Funding to support the development of a Coldwater Conservation Plan.			1 – FTE Clean Water Coordinator for	\$130,000 per year	2023: The Spring Creek (Hershey) WIP continues to develop and is in the field assessment phase. The plan is being developed through a partnership with Derry Township, Penn State, DCCD, The Center for Watershed Protection, and EPR.	
	C. CCR LUJU	with CAP initiatives and can help to	Municipal Authority	Township/		Conservation Figure			Planning		and one of parametering with porty township, i clin state, peop, the center for watershed redection, and ern.	
		support implementation of the CAP.		Conewago		No watershed organization currently exists for Spring Creek.			Commission		2022: \$14,971 from 319 grant funds (via pass-through from Trout Unlimited Doc Fritchey) to assist with the development of a	
				Township							319 plan for Spring Creek (Hershey) - Penn State will be completing virtual and in person land surveys of the watershed in	
										\$130,000 per year	summer 2022 to create a comprehensive list of potential ag BMPs (and potentially urban stormwater). Water Quality	
									Coordinator for Conservation		Monitoring plan was approved by EPA.	
									District			
										\$150,000 for		
										Coldwater		
										Conservation plan		
										development		

						2023 Phase 3 Watershed Implementation P	lan (WIP) Pla	nning and P	ogress Report –	DAUPHIN COUNTY	,	
	_			<u> </u>	reen - action has bee	en completed or is moving forward as planned <u>Yellow</u> - actio					encountered a serious barrier	
Action #	Description	Performance Target(s)	Responsible Party(is) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations		Available Financial	Resour Technical	rces <u>Needed</u> Financial	Annual Progress to Date (2021 to 2023)	to Action Item (2023-2024 milestone
3.2d	Support implementation of Conewago Creek WIP Update, which will result in cover crops, conservation tillage, riparian buffers, grazing land management, cropland retirement, nutrient management, streambank stabilization, streambank fencing, animal management waste systems, contour farming/strip cropping, ag E&S control, floodplain restoration, constructed wetlands and wet swales, bioswales, bioretention/rain gardens, and permeable pavement.	outreach, and reporting.	Tri-county Conewago Creek r Association, PSU AEC, Londonderry Township, Conewago Township, TetraTech, LandStudies, Red Barn Consulting, TeamAg, Rosetree Consulting, HRG, Dauphin Count Conservation District, DEP, NFWF, NRCS, USGS	Brills Run, Lynch Run,	Year 5 Milestone Year 5 Milestone Year 10+ Milestone (see page 57 of WIP Update for details)	Many partners and great momentum should enable the group to move forward. Technical assistance and funding at this scale will be a challenge. Willing landowners are a challenge.		Penn State AEC Recipient		\$14M (WIP update scope), \$54M overall watershed restoration	2023: Phases 1, 2, and 3 of the stream restoration goals were accomplished in a project in Londonderry Township. Tri-County Conewago Creek Association continues to take actions to develop projects and fundraise for these WIP efforts. https://conewagocreek.net/meeting-minutes/  2022: \$955,282 from NFWF - "The Chiques-Conoy-Conewago Regional Partnership: Integrating the Cloud, Muddy Boots and the Business of Farming to Get Farmers to Yes" - while much of this work is in Lancaster County, it does include the Dauphin County portion of the Conewago and all of Londonderry Township outside of the Conewago as well. These funds are to be spent by December 2022. Also supported buffer plantings and maintenance in East Hanover Twp, Londonderry Twp, Lower Swatara Twp, and Derry Twp.	
3.3*	Help farmers and operators to be in compliance with state and federal Conservation and Nutrient Management Plans	Soil and Water Quality Conservation Plans (Ag E&S) 33,700 acres  Nutrient Management (Manure Management) 40,300 20,000 acres of Core N, 14,400 20,000 acres of Core P Work with ACT 38 operators (22), Preserved Farms (193), and certified organics to document plans required as part of the program	4R Alliance, DCCD, Dauphin County Farm Bureau, NRCS, Private Sector Agriculture Farm Visits	Countywide Ag Land	2022-2025	Lack of DEP inspections.  Reporting and verification of AG Plans, NRCS plans expire and do not get reverified, private plans are never entered.  Lack of technical assistance to support agriculture planning and implementation, one on one farm outreach is best way to capture existing plans.  Act 38 plans and plans for preserved farms not required to be entered into PK, the recommendation is to require State programs to enter plans into PK  State agencies must work with integrators to ensure they are requiring compliance by farmers. Some integrators require compliance, but not all, great way to communicate with farmers as well.	Educational support		6 – additional Ag Planners to work with farmers to develop required plans	\$780,000 per year \$15 per acre for a tota cost of \$505,500 \$15 per acre for a tota cost of \$604,500	2023: A lack of plans has been identified by DCCD as a barrier for implementing projects. Through farmer outreach, DCCD is working to identify gaps in plans and target farms that require them.  DCCD has prepared 16 Manure Management Plans in 2023 totaling 1,446.83 acres and 13 Ag E&S plans totaling 2,131.79 acres. Nutrient management totals are 1,674 acres and nutrient balance sheets total 1,231 acres.  2022: PACD recently announced their Growing Greener grant for Ag Plan Reimbursement. Farmers in Dauphin County will be able to take advantage of this opportunity to produce Ag E&S and Manure Management Plans. HRG attended the rollout of this program to maximize opportunities to get farmers additional plans.  From 2020 to 2021 Dauphin County increased Nutrient Management Core N by over 4,300 acres and Nutrient Management Core P by over 12,300 acres. Additionally, Soil and Water Quality Conservation Plans increased by over 1,400 acres.  DCCD plans to continue outreach and writing plans per the State Conservation Commission Delegation Agreement.	Goals were changed due to acres already implemented (Core P), or lack of progress (Core N).
3.4	Advanced Nutrient Management (4R) Practice Education and Implementation	Transition manure management plans- to nutrient management plans and incentivize implementation  Increase reporting of supplemental nutrient management BMPs through existing programs and initiatives  Increase existing 4R practice N Rate by 1,700 acres, N Timing and Placement; P Timing, Rate and Placement by 1,000 acres. Increase existing 4R practice N/P Rate, Placement, Timing by 4,000 acres.  Explore the idea of increasing pre-side dress nitrogen testing (PSNT) or Chlorophyl testing to District program participants	County Farm Bureau, NRCS, Private Sector Agriculture Farm Visits	Countywide AG Land	2022-2025	Landowner interest, BMP verification (annual)  Lack of Technical assistance to support agriculture planning and implementation  Additional funding to support soil testing. Soil testing is key to meeting the recommendations of supplemental BMPs.  Machine dependent for most farming operations  Cost of fertilizer is self-regulating farmers to use less fertilizer; therefore, lower rates	Educational support		6 – additional Ag Planners to work with farmers to meet 4R standards	\$780,000 per year \$10 per acre of advanced nutrient management planning per type total cost for all is \$67,000	2023: HRG has worked with the counties on methods to integrate supplement NM reporting into current workflows in the Chesapeake bay Contract, Nutrient Management Contract, current PSNT programs, and equipment rental programs. HRG also provided outreach at several events to increase adoption of 4R practices within the region.  2022: No progress to date.	Goals were changed due to acres already implemented and continued progress of initiative.  Action Number Performance Target verbiage updated for the 2023 Milestone.

				G	reen - action has bee	n completed or is moving forward as planned Yellow - action	n has encountered	d minor obstac	les Red - action has	s not been taken or has a	encountered a serious barrier	
			Responsible Party(is) and	Geographic			Resources	<u>Available</u>	Resour	ces <u>Needed</u>	Annual Progress to Date	to Action Item
Action #	Description	Performance Target(s)	Partnerships	Location		Potential Implementation Challenges or Recommendations		Financial	Technical	Financial	(2021 to 2023)	(2023-2024 milestone
	Implement Practice to improve soil health and sustainability (Tillage Management and Cover	Determine feasibility of having a county/state cost share program to enhance adoption of the annual practice	DCCD, Dauphin County Farm Bureau, NRCS, Private Sector Agriculture Farm Visits	Countywide Ag Land	2022 – investigation	Capacity to manage the program at the county level, landowner interest  Lack of technical assistance and farm planners to work with	Transect survey		6 – additional Ag Planners to transition farmers to high residue	\$780,000 per year	2023: Dauphin County planted 7,742 acres of cover crops in 2023.  2022: From 2020 to 2021 Cover Crops in Dauphin County increased by over 8,500 acres.	Goals were increased to reflect number of acres already being treated, or decreased to reflect of la
	Crops)	Implement tillage management and cover crops on an annual rate of			2023 – next steps	farmers to transition to High Residue Tillage  Current verification methods do not accurately capture  implemented amounts — work with Capital RC&D to improve			County DCCD – staff to administer the	traditional per year		of progress of action iter
		24,000 45,000 acres High Residue, 10,000 14,000 acres Conservation Tillage, 4,000 3,000 acres Low Residue, 6,000 21,000 acres of cover crops. and				Transect Survey Routes  Farmers are harvesting cover crops for forage, need accurate efficiency crediting for commodity cover crops			program	\$540K for a 5-year total of \$2.7M (incentive payment, administration, Capital		
		15,000 acres of cover crops with fall- nutrients				Existing Cover Crop Programs have strict plant by date that does not work with changing weather patterns and wetter years  Organic farmers are using tillage to manage weeds and vertical				RC&D reporting) \$50 per acre fall nutrients per year \$750K for 5-year total		
						tillage is becoming more popular among farmers, younger generation is "trying" tillage for experience			Capital RC&D	of \$3.75M \$50,000		
									Transect Survey			
3.6	Implement more pasture management BMPs	Off Stream Watering – 150 1,100 acres  Forest buffers on fenced pasture	DCCD, Dauphin County Farm Bureau, NRCS, Private Sector Agriculture Farm Visits, CBF	County ag lands  – landowners  who raise	2025	Landowner education, BMP funding for non-buffer work, plan updates, data gathering	Landowner education		6 – additional Ag Planners to provide technical assistance	\$780,000 per year	2023: Prescribed grazing established as a new goal for 2023.  2022: Phase 1 of BMP verification identified 247 potential hits for streambank exclusion fencing. This data set will allow for	Goal was increased to reflect number of acres already implemented.
	Use Ag Land Preservation Goals to reach Pasture Management Goals		8	horses, dairy, beef and other pasture grazing		Lack of Technical assistance to support agriculture planning and implementation			and ag planning  3 – additional FTE		increased reporting of buffered acres with exclusion fencing.	,,
	_	corridor – <del>10</del> 300 acres  Land Retirement to Ag Open Space –		animals		Old NRCS plans need to be updated to comply with prescribed grazing definition – difficult to get landowner buy- in – fund alternative watering and fencing; most pastures are			environmental technician/rapid delisting program	\$390,000 per year		
		170 650 acres Precision Intensive				streamside Increasing construction costs are cancelling NRCS contracts			management	Off stream Watering \$500 per acre \$75K		
		Rotational/Prescribed Grazing - 300 acres								total  FB Buffer W/ Exclusion \$10,500 per acre \$105K total		
										GB Buffer W/ Exclusior \$2,750 per acre \$27.5K total		
2.7*	Discovery by ffee and as	252 district format huffer and (252)	CDE Develor County Was allowed	Countravida	2022 2022 line		Managiala	Durkent	C. additional Ac	Land Retirement \$500 per acre \$85K total	2022 UNIVERS CARE and DECR is installing 2.5 years of helfers are a true into in Coning 2024	Coolmania
	Riparian buffer and re- forestation BMPs	363 riparian forest buffer acres, (353) acres lost since 2017 need reverified	CBF, Dauphin County Woodland Owners Association, TU – Doc	Countywide		Landowner partnerships, landowner education, volunteer acceptance of buffer plantings, buffer maintenance guide for	Materials	Budget available to	6 – additional Ag Planners to provide	\$780,000 per year	2023: Utilizing CAP funds, DCCD is installing 3.5 acres of buffers across two sites in Spring 2024.	Goal was increased to reflect number of acres
		41 750 riparian grass buffer acres – (31) acres lost since 2017 need	Fritchey, Swatara/ Paxton Creek/ Tri-Valley/ Twin Valley/ Wiconisco/ Clarks Creek,	Explore implementation at Ned Smith		farmers, routine site visits to confirm buffers are thriving, invasive species removal during establishment	Mapping	be determined	technical assistance and ag planning		A 2024 project has been identified with the Manada Conservancy which will account for 6+ acres of buffers  The Capital Area Greenbelt association is leveraging a 2022 Community Conservation Partnerships Program grant of \$54,600	already implemented.
		reverified  29 300 acres – Agriculture Tree	Watershed Association, Manada Conservancy, NRCS, DCCD, Municipalities, Environmental	Center,	2023-2025 – in the	Lack of technical assistance to conduct landowner outreach, implementation and maintenance of proposed projects			3 – additional FTE environmental technician/rapid	\$390,000 per year	for the construction of approximately 12 acres of riparian forest buffers between 19th and 28th streets, along the Lower Spring Creek. The project is almost halfway through the four year effort, site preparation and planting has been completed with two years of establishment remaining.	
		Planting	Team Corps, CAGA, PWECA, Scout Troops	Witcomsco park		Flash grazing must be allowed with buffer installation			delisting program management	5t Duffer (10 500	2022- DEP Growing Greener - Prioritizing Forested Buffer Incentives - Tier 1 and 2 Counties, Huntingdon, Juniata, and Dauphin	
		12 acres – urban forest buffer Forest Conservation – 2,100 acres				Funding program must include a 5-10-year maintenance program to establish buffers along with incentive program \$4K minimum per acre payment				per acre \$325K	NRCS Codes: 560/575/340/382/561/468/516/367/558/578/580/620/645/360/313/614 - Conservation Districts and NRCS, This project will pickup landowner cost-share for NRCS practices if a buffer is installed, we also pay for site prep and maintenance of buffers. We have 12 projects, still looking for more, and are in the process of contracting with 7 contractors to do site prep	
		Tree Planting - Canopy - 1 acre								Grass Buffer \$2,500 per acre \$25K	and maintenance on buffers.  In September of 2022, HRG will contact the Alliance for the Chesapeake Bay to establish a Riparian Ranger Program in Dauphii	1
		Forest Planting - 1 acre								Tree/Forest Planting \$10,000 per acre \$290K	County. PSU Extension Master Watershed Stewards will be the leader in running the program.	
										Forest Conservation \$2,000 per easement		

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			Responsible Party(is) and	Geographic	reen - action has beer	n completed or is moving forward as planned <u>Yellow</u> - actio	n has encountered Resources			s not been taken or has o ces <u>Needed</u>	encountered a serious barrier Annual Progress to Date	to Action Item
Action #	Description	Performance Target(s)	Partnerships	Location	Expected Timeline	Potential Implementation Challenges or Recommendations		Financial	Technical	Financial	(2021 to 2023)	(2023-2024 milestone
3.8	implementation on	20 acres of Wetland Restoration  Identify 1 large property owner from University of Vermont restorable wetland layer to help identify where wetland restoration is feasible	Nature Conservancy, Hershey Trust, Northern Dauphin County Farmer, Manada Conservancy	Hoffer Creek (TNC), Armstrong Creek, Powells Valley Creek, Swatara Creek (East and South Hanover Township), Conewago Creek	2022-2025	Willing landowner; appropriate siting, design, and construction for successful restoration result.  Lack of technical assistance for landowner outreach and agriculture planning to identify potential site locations.	Landowner outreach		3 – additional FTE environmental technician/rapid delisting program management 2 – stream biologist	\$390,000 per year  \$280,000 per year  Wetland Restoration \$30,000 per acre \$600K	2023: As part of 2023 CAP funds, in Spring of 2024, 1.5 acres of wetland will be replanted to replace lost ash trees in Lower Paxton Township. Additional wetland restoration has been identified in the area an may be planted in Fall 2024.  2022: no progress to date.	
3.9		49,800 5,000 LF (1 mile) (9 miles) Urban Stream Restoration 2,000 15,000 Linear feet (3 miles) Agriculture Stream Restoration Armstrong Creek has shovel ready project needs \$800k in funding.	Army Corps of Engineers, Chesapeake Bay Foundation, PA Fish & Boat Commission, Watershed associations, DF Chapter TU, MS4 municipalities	Rural areas of Dauphin County – Armstrong Creek Urban areas – Paxton Creek, Asylum Run, Slotznick Run, Swatara Creek and its tributaries, Conewago Creek and its urban tributaries	,	Design/permit/construction cycle seems to work in two-year increments, there is an assumption that eroded/degraded streams exist based upon 403(d) listing – should that not be the case in the field, adjust quantitative goal down and ensure buffers are in place.  Lack of funding to cover engineering design. Chesapeake Bay Pollutant Reduction Plans are primarily focused on stream restoration, so it's a great partnership opportunity for the county to assist municipalities where there's a need for regional funding solutions for the current permit term and future permit terms.	GIS  Design/GP-1 permit		Design, permit, construction services  3 — Municipal Engineers  3 — FTE Design, Engineer, Permit  2 — Stream biologist	- \$45M Assume rural \$400/LF - \$800K \$420,000 per year \$420,000	2023: The Capital Area Greenbelt Association is using a 2021 Growing Greener grant of \$230,150 at Spring Creek Ivey Apartments Site (SCILAS) which created streambank restorations which were completed in 2023. The streambank restorations were approximately 500 feet, including Boulder/Log Revetment. 50 linear feet, Mud Sill. 40 linear feet, Boulder Toe and Bank Regrading with Habitat Logs. 250 linear feet, Boulder Bank Revetment. 100 linear feet, and Gravel Bar Removal. Installing the Native Plantings to be completed in the Fall of 2023.  2022: The Conewago Creek Stream Restoration project received over \$500k in CAP funding to complete stream and floodplain restoration. Phase 1 construction is set to be completed by the end of 2022. Phase 2 is finalizing municipality agreements to facilitate land acquisition.	already restored, or decreased to reflect of lack of progress of action item.
3.10	runoff control/loafing lot management	24 60 acres of barnyard runoff controls 2 acres of loafing lot management 39 acres of agriculture drainage management	DCCD, NRCS, Dauphin County Farm Bureau, Private Sector Ag Consultant	Countywide Farms	2022-2025	Lack of Technical assistance to support agriculture planning and implementation.  Lack of funding to cover engineering design.  Increasing construction costs are cancelling NRCS contracts.			6 – additional Ag Planners to provide technical assistance and ag planning 3 – FTE Design, Engineer, Permit 3 – FTE Inspector construction Services	\$420,000 per year \$420,000 per year \$315,000 per year  Barnyard Runoff Control \$175K per project, assume 1 acre per project \$1.725M in total  Agriculture Stormwater Management \$10K per acre \$390K	2023: No progress to date.  2022: Phase 1 of BMP verification will identify where barnyard clusters are located and determine if they are livestock operations or poultry operations. This will help determine potential locations for management BMPs.	Goal was increased to reflect number of acres already being treated, and an increase in available funding for related projects
3.11a	management BMP implementation for	2,000 33,500 AUs managed through new BMPs 1,700 AUs animal mortality composting management	NRCS, DCCD, County Farm Bureau	Livestock and Poultry farms	2022-2025	Time to get through planning, design, and construction; outreach to smaller farms that likely need the assistance; match cash value for small farms; readiness to plan/implement projects when outreach efforts yield willing landowners.  Lack of funding to cover engineering design.	Engineering		6 – additional Ag Planners to provide technical assistance and ag planning 3 – FTE Design, Engineer, Permit 3 – FTE Inspector construction Services	\$780,000 per year \$420,000 per year \$315,000 per year  Animal waste management system \$175,000 per project, assume 100 AUs per project \$3.5 M in total	2023: 846.56 AUs of animal waste management and 245.36 AUs of animal mortality composting were implemented in 2023.  2022: BMP Verification Phase 1, shows the potential to report an additional 108 animal waste storage facilities currently not reported through PracticeKeeper. This will help determine potential locations for management BMPs.	Goal was increased to reflect number of acres already being treated, and an increase in available funding for related projects

						2023 Phase 3 Watershed Implementation I	Plan (WIP) Plan	nning and P	rogress Report –	DAUPHIN COUNTY	Υ	
			Responsible Party(is) and	Geographic G	reen - action has bee	n completed or is moving forward as planned <u>Yeliow</u> - action	on has encountered Resources <u>A</u>			s not been taken or has ces <u>Needed</u>	encountered a serious barrier Annual Progress to Date	to Action Item
Action #	Description	Performance Target(s)	Partnerships	Location	Expected Timeline	Potential Implementation Challenges or Recommendations		Financial		Financial	(2021 to 2023)	(2023-2024 milestone
3.11b	Manure Transport out of Dauphin County	Transport 2,000 dry tons per year out of county	DCCD, NRCS, Dauphin County Farm Bureau, Manure Brokers	Countywide	2022-2025	Current reporting standards do not require manure broker and haulers to report manure transported. New regulations must be developed to require haulers and brokers to submit information to DEP.			1 – FTE Clean Water Coordinator for Conservation District	\$130,000 per year	2023: New goal for 2023	
3.12*	Urban Stormwater Management Non- Regulated Communities	Implement existing ordinances and Catalogue existing BMPs that fit into this category  Runoff Reduction Performance Standard – 936 4,000 acres treated  Stormwater Treatment Performance Standard – 13 acres treated	DCPC, DCCD, developing municipalities, Tri County Regional Planning, Municipal Engineers, PSU Master Watershed Stewards	County-wide	Ongoing 2022-2025	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		5 Summer interns for reporting and verification  3 – Municipal Engineers  3 – municipal planner	\$50,000 per year \$420,000 per year \$390,000 per year	2023: Funding remains an issue for those communities not included in WREP. One, non-regulated municipality is involved with WREP. Buy-in was offered to multiple municipalities, but without regulation, most did not see the benefit.  2022: A potential pilot project has been identified in Millersburg Borough and Upper Paxton Twp.	n Goal was increased to reflect number of acres already being treated.
3.13*	MS4-related Chesapeake Bay Pollutant Reduction Plan Implementation	Plan implementation by end of current permit term (2023)  Wet Ponds and Wetlands – 167 acres treated  Bioretention and Raingardens – 153 acres treated  Bioswale – 75 acres treated  Vegetated Open Channels – 18 200 acres treated  Infiltration Practices – 32 200 acres treated  Dry Extended Detention Ponds – 181 acres treated  Advanced Street Sweeping – 396 200 miles  Dry Detention Ponds – 2 acres treated  Stream Restoration (see Initiative 3.9)	Paxton Township, Susquehanna Township, Capital Region Water, Swatara Township, Lower Swatara Township, Londonderry Township, Hummelstown Borough, Paxtang Borough, Penbrook Borough, Steelton Borough, Highspire Borough, Middletown Borough, Derry Township, South Hanover Township, East Hanover Township, PSU Master Watershed Stewards, Audubon, TNC, CBF	Urbanized planning area	2023 – might be 2025 if they're individual permittees	Municipal capacity to implement plans (technical, financial)  Develop a grant funding source just for MS4 communities so they are not competing against all stakeholders. Need larger sources of funding.  Land available to implement projects.  Expanded flexibility to work outside of designated areas	engineer design/permit,	Unknown	3 – Municipal Engineers 3 – municipal planner	Project budget: \$4M \$420,000 per year \$390,000 per year Project budget \$5.4M	2023: MS4s continue to implement their individual PRPs.  A goal of WREP is to have the 15 MS4 municipalities participating in the program enter into a join PRP in 2024.  2022: No progress to date.	Goals were increased to reflect number of acres already being treated, or decreased to reflect of lack of progress of action item.
	Conservation Landscaping/Turf to Meadow Conversion	Promote new program and enable one large tract landowners' participation  100 10 new acres of Conservation  Landscaping	Organizations, Municipalities, PSU Master Watershed Stewards, Audubon, TNC, CBF	Developed areas in County municipalities	2022 - 2025	Landowner education and acceptance.  Existing mowing ordinances and weed ordinances can be a challenge to implementation.	Planting plan assistance		Planner  3 – additional FTE environmental technician	\$390,000 per year \$390,000 per year \$2,500 per acre meadow à \$250,000 budget	2023: A project has been identified along Spring Creek in Swatara Township. This project will be implemented in 2024.  2022: \$6,190 from WPC DCNR Watershed Forestry Funding - awarded to East Hanover Township Parks and Rec and Penn Stat Extension is assisting. 1.24 acre turf to meadow conversion in the community park to be completed fall 2022 and spring 2023, and will include field day trainings for other municipal/grounds crews to attend and learn.	
3.15*	Continue dirt, gravel, low volume road program	14 miles overall restored through past projects and future projects  Dirt & Gravel Road Erosion & Sediment Control - Driving Surface Aggregate with Outlets - 35,000 LF (6.5 miles)		Countywide	2025	Continue D&G Road program funding. Expand Dirt and Gravel Road Program to include farm lanes.	Education, technical assistance, project oversight			\$130,000 per year Dirt and Gravel Roads \$40 per foot TBD	2023: 2 DGR projects, one 3,437.17 feet long and one 3,365.43 feet long, were installed in 2023.  2 LVR projects, one 6,506.94 feet long and one 3,365.43 feet long, were installed in 2023.  2022: One project was completed in Jefferson Township on Hemlock Road. The road base was restored, the road was resurfaced with DSA, and drainage was improved. The project was 4.577 linear feet long.	
<del>3.16*</del>	Work with PennDOT and local municipalities to reduce frequency of mowing road ditches and along roadways	Educate local municipal leaders and work with PennDOT to address state owned roads on the importance of keeping higher vegetation along roadways to prevent erosion and increase nutrient uptake.	<del>Local Municipalities, DEP and</del> <del>PennDOT</del>	Countywide	<del>2023</del>	PennDOT's and Municipal willingness to cut back on mowing programs. DEP Chesapeake Bay Program will need to assist in the education of PennDOT.			Coordinator for Planning Commission	- <del>\$130,000 per year</del> - <del>\$130,000 per year</del>	2023: No progress to date.  2022: No progress to date.	Consistent lack of progress and lack of coordination/buy in from PennDOT through State partners.

						2023 Phase 3 Watershed Implementation P	lan (WIP) Plar	ning and P	rogress Report –	DAUPHIN COUNT	Y	
	1				reen - action has bee	n completed or is moving forward as planned Yellow - actio					encountered a serious barrier	
Action #	Description	Performance Target(s)	Responsible Party(is) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources <u>I</u> Technical	Available Financial	Resoure Technical	ces <u>Needed</u> Financial	Annual Progress to Date (2021 to 2023)	to Action Item (2023-2024 milestone
	Private Funding & Grant Administration	Identify some private funding sources	Existing project implementer networks, Ag Choice Farm Credit, Hershey Trust	Countywide	2022-2023	Need to expand network, educational aspect of less common funders, logistics of utilizing unproven funding sources (or lesser known).  Grant administration is a challenge due to limited staff and time-consuming nature of grant reporting and administration.	Financial services		1 – FTE     Conservation     District Grant     Manager      1 – FTE Planning     Commission Grant     Manager	\$130,000per year \$130,000 per year	2023: FFAR and Walton Family Foundation opportunities did not proceed. No progress to report from County-led activities.  2022: HRG and LFT are exploring potential opportunities to apply to the Foundation for Food & Agriculture Research (FFAR) and the Walton Family Foundation's new program, Achieving Conservation through Targeting Information, Outreach and Networking (ACTION) to support innovative research that increases adoption of conservation practices. A potential grant application would bolster farm visits in Dauphin County to increase the adoption of Conservation Practices.	
3.18	Partner with local	Partner with The Hershey Company,	The Hershey Company, Land O'	Countywide	2022 – assist The	Funding to support ongoing PSU Extension support	CAP Coordinator		2 – staff accountants PSU Extension	\$140,000 per year \$10,000 per year	2023: 2023: Through a partnership with Manada Conservancy and the Hershey Trust, DCCD has identified potential projects	
	environmental organizations and integrators performing conservation work	Land O' Lakes and PSU Extensions to	Lakes, PSU Extension and Master Watershed Stewards (14), PSU Master Watershed Stewards, Audubon, TNC, CBF, PennAg	countymac	Hershey Company with corporate development of science-based targets for water for their cooperate environmental goals, connect with Audubon on Green Ribbon Landscape opportunities in Dauphin County	Reporting Conservation Practices installed with private integrator funding  Support Ag Conservation Assistance Program (ACAP)			Coordinator  1 – FTE Clean Water Coordinator for Planning Commission		for 2024 and 2025. 2022: No progress to date.	
		Education, and Training	ALLADAA TIL. Dan Fritaban	Carretonida	2022	Data and in the CANC and the standards and an analysis of the CANC and the standards are standards and the standards and	Data 0.000 and	N/A	Malauria and face	N/A	2022. Disking Calley's Alling for A matic Downs Maritains (AUADM) in a constitution of the base of the constitution of the con	
4.1	monitoring data into Chesapeake Data Explorer, Chesapeake Monitoring Cooperative database	Successful data input/acceptance by ALLARM and other environmental groups program by end of 2021  Completed background study of	ALLARM, TU – Doc Fritchey, Swatara/ Paxton Creek/ Tri- Valley/ Twin Valley/ Wiconisco/ Clarks Creek, Watershed Association, SRBC, Manada Conservancy, DCCD, DEP	Countywide  Wildwood Lake		Data precision, QAQC, opportunity to educate landowners about local stream health and what they can do about it	Data QAQC and training  Data input  Survey base	N/A	Volunteers for Water quality monitoring New monitoring equipment 3 – additional FTE environmental technician 2 – stream biologist/environmental scientist	\$10,000 \$130,000 per year \$280,000 per year	2023: Dickinson College's Alliance for Aquatic Resource Monitoring (ALLARM) is a community science center that works with communities in the Mid-Atlantic region to use science as a tool to investigate stream health while generating data that can be used for aquatic protection and restoration efforts.  ALLARM's Stream Team program aims to develop baseline water quality data examining the relationship between land use, geology, and water quality. PA communities have collected biological, chemical, and physical data, and continue to do so in these targeted counties: Cumberland and Dauphin. There are currently 19 active Stream Team Sites in Cumberland County, and 3 active sites in Dauphin County. Monitoring data for these active sites, as well as sites not currently monitored in Cumberland, Dauphin, and Perry Counties are located in the CMC Data Explorer, which is a regional database for Community-collected data throughout the Chesapeake Bay Watershed. More information and the Data Explorer can be found here: https://cmc.vims.edu/#/home In partnership with Letort Regional Authority, ALLARM also monitors 7 sites along Letort Spring Run in Cumberland County for baseline chemical parameters and visual observations.  Capacity changes with the Program Coordinator and Conservation Districts has pushed the convening of the Watershed Specialists. We will reevaluate in 2024 if this should be a priority at the County level or if it should be scaled to the State or Federal level.  2022: 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.  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.	Eliminated the USACE
		nitrogen reduction performance by	Recreation Department, DEP, USACE, Friends of Wildwood, HRG, Normandeau	park property (owned by Dauphin County, located within Harrisburg city limits)		conflicting and addressing the needs of all stakeholders while honoring the wild nature of Wildwood is a delicate balance. The restoration of Wildwood Lake is expected cost	mapping and abbreviated	\$14 <del>7,000</del>	geochemical study of nitrogen sequestered/proces sed by wetland system Feasibility study, design, engineering, construction	,	Dauphin County continues to pursue construction funding from various sources. The nitrogen reduction study concept has not	

2023 Phase 3 Watershed Implementation Plan (WIP) Planning and Progress Report – DAUPHIN COUNTY															
	Green - action has been completed or is moving forward as planned Yellow - action has encountered minor obstacles Red - action has not been taken or has encountered a serious barrier														
			Responsible Party(is) and	Geographic			Resources /			rces <u>Needed</u>	Annual Progress to Date	to Action Item			
Action #	Description	Performance Target(s)	Partnerships	Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Technical	Financial	Technical	Financial	(2021 to 2023)	(2023-2024 milestone			
4.3	Supporting watershed	Develop new or reestablish existing	National Trout Unlimited,	Countywide	Ongoing	Willing volunteers and leaders to establish and run	Social media	Limited	1 – FTE Clean Water	\$130,000 per year	2023: Through a partnership with Manada Conservancy and the Hershey Trust, DCCD has identified potential projects for 2024				
	associations for short-term	watershed associations to support with	ALLARM, TU – Doc Fritchey,			watershed organizations to be successful and support with	shares, meeting	match	Coordinator for		and 2025.				
	success and long-term	CAP implementation. Watershed	Swatara/ Paxton Creek/ Tri-			implementation.	logistics		Planning						
	sustainability aligning with	organizations can support with	Valley/ Twin Valley/ Wiconisco/						Commission		2022: \$162,422 from DEP Growing Greener - a portion of these funds supported to initiation of the Master Watershed				
	their goals	outreach, engagement, new project	Clarks Creek, Watershed				Project				Stewards program in Dauphin County. The funds are set to expire in December 2022. Live Stakes planted in Centennial Acres				
		identification and implementation	Association, SRBC, Manada				development		1 – FTE Clean Water	\$130,000 per year	park (Lower Paxton) as well as a live stake nursery to expand access to live stakes for future projects, as well as educational				
			Conservancy, DCCD, DEP, All				support		Coordinator for		signage.				
			Things Swatty, Swatara Water						Conservation						
			<u>Trail</u>						District		Future NFWF funding to support ongoing work by the PSU - AEC in the southeast portion of Dauphin County.				
										\$5000 per organization					
										to produce					
										promotional materials					
										(hats, shirts, stickers)					
										for members \$40,000					
										per year					
4.4		Partner with Kittatinny Ridge where	The Nature Conservancy, DCNR,	<u>Susquehanna</u>	Ongoing	Future land conservation efforts will take time and funding				TBD	2023: Increasing the advertising and awareness has occurred in 2023.				
		5 5	Audubon Pennsylvania,	<u>Water</u>		to see through in the Kittatinny corridor, but they are									
	and Kittatinny Ridge	implementation	Appalachian Trail Conservancy,	Gap/Capitol		important to pursue because they preserve clean water.					2022: Audubon Pennsylvania and Manada Conservancy are prioritizing land for protection.				
	conservation goals		get outdoors PA	<u>Area</u>											