2024 Phase 3 Watershed Implementation Plan (WIP) Planning and Progress Report – DAUPHIN COUNTY

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Action			Responsible Party(is) and	Geographic		Potential Implementation Challenges	Resources	<u>Available</u>		n taken or has encountered a serious barrier ources Needed	Annual Progress to Date
#	Description	Performance Target(s)	Partnerships	Location	Expected Timeline	or Recommendations	Technical	Financial	Technical	Financial	(2021 to 2024)
	Advance the Dauphin County Regional Water Resource Enhancement Program	Finalize	All municipalities in Dauphin County	Countywide	2021 finalize intergovernmental cooperation agreement 2022 identify early actions	Commitment from all municipalities to work together to address water quality and flooding issues, jointly. Logistical challenges of geographies divided by multiple watershed boundaries. Uncertainty of future MS4 regulations that would impact the anticipated cost savings.	writing, coordination		1 – FTE Clean Water Coordinator for Planning Commission	\$130,000 per year \$1M line of credit – startup funding	2024: The 10 municipalities involved in WREP have continued to meet on a regular basis. These Municipalities have been collaborating on a priority project study, reviewing public outreach methods, MS4 meet ups and coordinated training and exploring alternative for a regional joint water improvement project which would help meet MS4 Permit requirements, reduce flooding and improve water quality. 2023: The 15 municipalities involved in WREP have continued to meet on a regular basis. These meetings will determine the components of the 2024 WREP program which will lead to urban BMP implementation with a focus on flood resilience with MS4 credit being a co-benefit in the next permit term. 2022: The intermunicipal agreement was finalized on 8/17/22. Outreach to all municipalities will proceed this summer with advisory committee meetings projected to occur during 2022 Q4.
1.2	Advance local comprehensive planning efforts Implement existing Source Water Protection Plans	Consider intersection of areas of high nitrates in GW (use Conservation District Data), source water protection support from DEP, and develop communication strategy with municipal and	and Authorities, PADEP Bureau of Safe Drinking		2022 – review raw water chemistry data to better quantify need and potential cost savings for treatment (DCCD Data)	Reinforcing the municipal role in coordinating with the water authorities to perform education and outreach. Landowner connection of farming activities to water supply needs in downstream municipalities.	Coordination of meetings and continued education.		1 – FTE Clean Water Coordinator for Planning Commission Source Water Protection Plan development	\$130,000 per year \$100,000	2024: HRG is looking into Municipal Source Water areas for potential projects to promote higher water quality in these areas for future project implementation. Also, the Dauphin County Comprehensive Planning process will initiate in 2025. 2023: No progress to date. 2022: No progress to date.
1.3*	Evaluate areas to establish riparian buffers to stabilize stream banks and limit encroachment	Utilize public data sets (future Chesapeake Conservancy?, PSU) to	District, Chesapeake Bay Foundation, Doc Fritchey Chapter Trout Unlimited,	Countywide, Detweiler Park (demonstrati on BMPs), larger-sized	2022-2025 (MS4 support) 2026-beyond (all municipalities)	Adopting ordinances, may require a pilot project in a willing municipality to demonstrate success. Lack of technical assistance to support implementation goals for forest buffers Buffer funding programs must include 5 10-year minimum maintenance plan, incentive money for landowners, or with volunteers to establish the buffer.	ground riparian project execution		1 – FTE Clean Water Coordinator for Planning Commission 1 – Additional Watershed Specialist for Conservation District	\$130,000 per year \$130,000 per year Expand Buffer Bonus Program to provide \$10,000 per acre of buffer installed to include 5-year maintenance contract \$220,000 total	2024: A site was identified and visited in November of 2023. The project is still pending on if it will move forward going into 2025. 2023: Utilizing CAP funds, DCCD is installing 3.5 acres of buffers across two sites in Spring 2024. A 2024 project has been identified with the Manada Conservancy which will account for 6+ acres of buffers. HRG continues to foster the relationship with PSU Ag and Enviro. Center's Riparian Ranger program through offering training sites and helping to recruit members. 2022: DCCD has a few buffers planned to be implemented within the next year from a legacy of landowner outreach with little success in funding. Staff turnover is going to make next steps a challenge, but the project information is available for CD and HRG staff to advance the lead. Ag producers are looking to plant buffers as well, the largest being 11-12 acres. To be planted within the next year. PSU Extension Master Watershed Stewards and Ag and Enviro. Center staff have established a Riparian Ranger Program in Dauphin County and will be recruiting for members in early 2023.
1.4	Implement County Hazard Mitigation Plan & Emergency Management Plan	See 2021 Hazard Mitigation Plan for flood trouble spots for municipalities, review PENNDOT Paxton Creek study for next steps and potential for FEMA BRIC funding	Commission, Dauphin County Emergency Management, Local Emergency	Work with emergency management plan to identify flood prone areas.		Flood controls can, if considered in design and maintained, capture pollution. Large scale projects are likely needed, which can be expensive and require large parcels of land to make a difference. Consider pairing up flood mitigation with a resilient park concept so that during dry weather, the general public can enjoy the area.	CRS program guides		1 – FTE Clean Water Coordinator for Planning Commission Planning, engineering, permitting, construction Flood elevation certificates for program entry 3 – Municipal Planners	\$130,000 per year \$5,000,000 \$390,000 per year	2024: The 2024 Hazard Mitigation Planning and plan update is underway. Additional funding received through PEMA to be utilized by the WREP program to model potential projects identified as problem flooding area. Annual review of current plan occurred in November. 2023: Annual review is scheduled for September 2023. Updates and additional information will be included based on public and shareholder input. Funding is being sought for the next complete update. 2022: Mapping of flood prone areas has been completed. In process of applying for Hazard Mitigation Grant Program, and have supported municipalities in applying for Hazard Mitigation grants. Creation of a Dedicated Hazard Mitigation Position >\$250,000 acquisition of a duplex in the Paxtang watershed for future projects. \$200,000 secured for a shovel ready project at the McKelvey Bridge project in Middle Paxton Township. \$500,000 project in Penbrook Borough.
1.5*	Act 167 Plan	Dauphin County's Act 167 Plan is over 10 years old. Explore the feasibility of updating this plan if funding is available. Re-visit the model stormwater ordinance that would	_	Countywide	2023 – collaborate with municipalities to discuss the benefits and challenges of tackling an update	Should local involvement exist additional responsibility. Finding funding to update a Countywide Act 167 Plan. Lack of DEP funding for plan update.			1 – FTE Clean Water Coordinator for Planning Commission	\$130,000 per year \$250,000 for Act 167 Plan Update	2024: Dauphin County was not awarded a Growing Greener grant for plan improvements. Act 167 plans will remain unchanged for the foreseeable future. 2023: Dauphin County applied for a Growing Greener grant. 2022: The 2022/2023 state budget includes new funding to support the development of Act 167 plans. If funding is available, Dauphin County will explore the possibility of updating their current plan.

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					<u>(</u>	Green - action has been completed or is moving forw	ard as planned <u>Yellow</u> - ac	ction has encountered m	inor obstacles Red - action has not been					
			Responsible				Resources	Available	Reso	urces <u>Needed</u>				
Acti			Party(is) and	Geographic		Potential Implementation Challenges					Annual Progress to Date			
#	Description	Performance Target(s)	Partnerships	Location	Expected Timeline	or Recommendations	Technical	Financial	Technical	Financial	(2021 to 2024)			
1.6	 Continue to Implement 	Total farmland	Farmland Trust	Ag land use	2021 – begin new	Technical assistance to coordinate	Priority	\$1,750 per acre	Ag Land Preservation Staff	\$130,000 per year	2024: 4 Farms were preserved in 2024 totaling 403 acres.			
	County Farmland	preservation (193 farms	and Agricultural	area that fits	outreach strategy	preservation plans	recommendations,	increase this year	Administrator - inspections,					
	Preservation Program	in program currently –	Preservation	farmland			easement revision		plan writing, and full farm		2023: 6 farms will be preserved in 2023 totaling 530 acres.			
		18,546 acres)	Coordinator,	preservation	2021 – increase per	Preserved farms are required to have	recommendations,		walks every two years					
			NRCS, DCCD,	criteria	acre pay	an NRCS Conservation Plan, work with	supplemental BMP				2022: Five farms are planned for preservation through 2023. There are 11 left on the list to be preserved.			
		Estimated that (6) farms	Manada			farmers to ensure Conservation Plan is	funding research		1 – FTE Clean Water					
		per year are preserved.	Conservancy		2022-2025 continue	reported in PracticeKeeper.			Coordinator for Conservation					
		Total goal of 24 over the			the program on annual	Recommend to make this a program			District					
		next 4 years.			basis	requirement statewide.				\$130,000 per year				
		-1,500 acres of farmland												
		conservation				Gaining Plain Sect Involvement								
		Begin outreach campaign				Generating additional applications is				\$250,000 per farm funded, total of 24				
		in fall 0f 2021				challenging.				farms \$6M				
		•			•		•	•	•					

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7*	-	Approximately 150 farms	DCPC, DCCD,		2022-2025	Limited compliance activities by DEP. In			6 – additional Ag Planners to	\$780,000 per year	2024: Penn State University has been overseeing the rollout of the Agricultural Conservation Assistance
	support to assist the	have their plans in	Contracted			2018 DEP conducted inspections in			provide technical assistance		Program (ACAP) which has helped bridge funding gaps for projects that help promote water quality and
	agricultural community	Dauphin County, goal is	planners, ACT 38			Northern Tier of Dauphin County and			and ag planning		farm efficiency.
		to complete 280 by 2025	operators,			resulted in a lot of farmers to get					
		(40% of total).	Organic Farmers,			Conservation Plans.			3 – FTE Design, Engineer,		2023: Penn State University is creating a Center for Agriculture Conservation Assistance which will support
	692 farms in Dauphin		Preserved Farms,						Permit		the agricultural community and train conservation professionals in agricultural BMPs.
	County (2017 USDA	Enter Conservation and	integrators			Lack of Technical assistance to support				\$420,000 per year	
	Census)	Nutrient Management				the farming community			3 – FTE Inspector Construction	1	A partnership between Penn State Extension, Lancaster Farmland Trust, and HRG is leveraging funding t
		Plans into							Services		initiate targeted farmer outreach in Dauphin County.
		PracticeKeeper.				Private sector Ag plans are not required				\$315,000 per year	
						to be shared with District staff.			1 – FTE Clean Water		2022: The Foundation for Pennsylvania Watersheds applied for a Growing Greener grant totaling \$1.6
		Potential implementation							Coordinator for Conservation		million to support additional ag engineering needs along with increased farm visits. In 2021 Lancaster
		challenges (Continued):				Work with ACT 38, Preserved farms and			District		Farmland Trust completed 20 farm visits. In 2022 the Lancaster Farmland Trust completed an additional
		In order to communicate				organic farms to report AG E&S and				\$130,000 per year	farm visits.
		effectively with the				NRCS Conservation Plans. These			1 – Administrative Assistant		
		farming community one				operations are required to have plans,					Agriculture Conservation Assistance Program (ACAP) was announced in the Pennsylvania State Budget in
		on one farmer outreach				but no requirement to report the plans.					July of 2022. This program will provide all counties in Pennsylvania with funding totaling \$154 million ov
		must be conducted.				It is recommended state agencies make					the next 3-years to support Ag project implementation and technical assistance needs.
		Farmers do not				changes to ACT 38 and Persevered Farm					
		participate in outreach				programs to require PracticeKeeper				\$75,000 per year	
		events or read				reporting. The most effective way to					
1.8	University Partnership -	GIS deliverables,	Harrisburg	Countywide,	2022 2025	Continued undergraduate/graduate	Outreach boots on		5 – Student Internships to	\$50,000 per year	2024: College interns have been hired and have been involved with traffic related operations and counting
1.0	Implementation	stormwater	Ŭ	university-	2022-2023		the ground		Support CAP Implementation	350,000 per year	at DCPD and improving GIS databases.
	implementation	studies/monitoring, BMP	• •	owned land		distance for students to travel.	the ground		Support CAF implementation		at DCFD and improving dis databases.
		field/aerial identification,	Harrisburg Area	owned land		distance for students to traver.					2023: Dauphin Planning: Two interns on staff in 2023. One was from Harrisburg University and the other
		·	Community			Lack of technical assistance					was from Shippensburg University, who was then hired full time by TCRPC.
		regulatory support	College, PSU Ag			professionals to mentor students.					was from Shippensburg Oniversity, who was their filled full time by Tenre.
		Develop undergraduate	and			professionals to mentor students.					2022: Dauphin Planning: Two interns on staff in 2022: One from Harrisburg University and one from
		and graduate students to	Environment			Lack of competitive paying job					Pennsylvania Western University, California Campus. The interns contributed toward the data collection
		support staff with	Center (AEC),			opportunities that ensure long term					mapping contained on the Water Quality and CAP portions of the website.
		• •	Shippensburg			sustainable for recently graduated					mapping contained on the water Quanty and CAF portions of the website.
		interns and upon	University,			students					
		graduation	Widener			students					
1 9 ^	Water quality	Develop messages and		Countywide	2022 – 2025	Simplifying the resources that are	Website		Website development and	\$10,000 per year	2024: In 2024, there has been a synthesis of CAP-identified projects with WREP-identified projects within
1.5A	communication plan,	audience; execute plan	TCRPC as lead	Countywide	ZUZZ — ZUZJ	available, targeting Dauphin County	development and		continued maintenance	710,000 per year	the Swatara Creek Watershed for analysis. WREP GIS data modeling and project selection is underway
	leveraging existing		entity building				continued		continued maintenance		through the priority project study. The study is projected to be substantially complete in October 2024.
	documents and	through staff and	upon				maintenance				tinough the phoney project study. The study is projected to be substantially complete in october 2024.
	covering topics	partners	environmental			Sharing staff resources across the 4-	mannenance				2023: The DPJM Countywide Action Plan website and GIS tracking data continues to be updated.
	including hazard	partition	aspects			county region			1 – FTE Marketing and		2020. The District Country what Action Flan website and districting data continues to be aparted.
	mitigation plan, MS4	Utilize the DPJM County	aspects			Source (Caroni			Outreach Coordinator		2022: The DPJM Countywide Action Plan website listed in the Performance Targets has been updated to
	municipalities,	Countywide Action Plan								\$130,000 per year	include information about implementation of the Countywide Action Plans. Additionally, a GIS tracking d
	comprehensive plan	(arcgis.com) - ARC GIS							1 – FTE Clean Water	7 20,000 pc. ycu	base has been added to capture the location of potential projects.
	and Act 167	website as a source of							Coordinator for Planning		acce has been added to captain the location of potential projects.
	and Acc 107	consistent							Commission		
									3311111337311		
		<u>communication</u>									

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1.9B	Utilize local arts and	Identify local businesses	Millworks,	Paxton Creek	2022 – coalition	Fortitude to see small projects through				\$ 5,000	2023: No progress to date.
	businesses to promote	that support water	Paxton Creek	watershed?	building, one event	to gain momentum and realize general					
	water quality	initiatives or need clean	Watershed &			public understanding about stormwater					2022: No progress to date.
	messaging and general	water for their	Education-			runoff, local stormwater fees may					
	public education	businesses to thrive	Association,			provide a reason for public to					
			Paxton Creek			understand what they're paying for, will					
		Identify local artists who	Cooperative-			art translate to the call to action?					
		have a passion for	(Capital Region								
		water/environmental-	Water,								
1.9C	Agricultural	Develop a strategy to	CD, County Farm	Countywide	2022-2025	One on one farm outreach is the best			6 – additional Ag Planners to	\$780,000 per year	2024: Lancaster Farmland Trust will conduct 15 farm visits for scoping to recommend BMPs for operations
	Communication	complete one on one	Bureau,			way to communicate with farmers in			provide technical assistance		and gather preliminary information to inform engineer's inventory and evaluations (I&Es)
	Strategy	farm visits.	Integrators, Ag			addition to reporting practices.			and ag planning		
			Land								2023: A partnership between Penn State Extension, Lancaster Farmland Trust, and HRG is leveraging funding
		Develop a	Preservation,			Funding to support the technical			1 – FTE Marketing and		to initiate targeted farmer outreach in Dauphin County. A total of 25 occurred in 2023.
		communication plan to	PSU Extension,			assistance required to complete one on			Outreach Coordinator		
		engage integrators.	NRCS			one farm outreach				\$130,000 per year	
									1 – FTE Clean Water		2022: Farm visits have been utilized to conduct outreach to farmers about the Countywide Action Plan. In
		Utilize Farm Bureau				Outreach to integrators is a challenge			Coordinator for Conservation		2021 20 farm visits were conducted and in 2022 an additional 30 visits are scoped. The Foundation for
		Newsletter for				due to the number of integrators and			District	1.	Pennsylvania Watersheds submitted a Growing Greener grant titled 12-County Investment to Catalyze
		announcements				multiple country boundaries they serve.				\$130,000 per year	Agricultural Project Readiness that would support rapid scaling up of farm visits within Dauphin County.
						It is recommended DEP/PDA/SCC					Scaling up of farm visits would allow for additional outreach to occur.
		Partner with pesticide				communicate with integrators on a				See 1.9A for website costs.	
		meetings and other AG				frequent basis to reduce mixed					
		meetings to provide				messages.				Costs for meeting attendance and	
		information.								administration may be covered	
1.10*	Countywide WQ Credit	Demonstrate success of a	MS4-	MS4	2022 - 2023	DEP acceptance of approach, permit			1 – FTE Clean Water	\$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
	Offset Pilot	pilot project area where		watershed		compliance coordination among			Coordinator for Planning		track to meet their Pollutant Reduction Plan requirements by their permit deadlines. We will remove it from
		MS4-regulated areas and	·	HUC12 pilot		sectors, farmers in compliance with			Commission		the CAP due to a lack of need.
		non-regulated areas can	agricultural land	area –		state and federal regulations					
		benefit from achieving	use in the	Swatara					1 – FTE Clean Water		2022: No progress to date.
		sediment and nutrient	vicinity of the	Creek					Coordinator for Conservation	\$130,000 per year	
		goals	Urbanized Area	watershed?					District		
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	y Initiative 2: Reporting a	T T T T T T T T T T T T T T T T T T T									
2.1*	Existing BMP	Expand use of existing	Harrisburg	Countywide	2022 – cataloguing	EPA acceptance of the approach,		N/A	Further GIS and data	\$46,000 (2022 only)	2024: Capital RC&D has obtained \$934,000 through a NFWF SWG to do farmer outreach to verify existing
	cataloguing (quantity	buffer layer with urban	University, PSU		2022 5 11 14	further refine guidance in QAPP so that	Conservation Tools		processing/method refinement		BMPs and identify new potential projects for BMP implementation.
	and location) for select	hydrology layer	Harrisburg,		·	·	Conound		C additional As Planagas to		2022. No progress to date leads of finading faminarification and cataloguing is the issue
	BMPs, expanding on general	R&D into distinguishing	Harrisburg Area Community		batch upload processing and field	the state can take the burden off of counties, utilize the approach to	General methodology		6 – additional Ag Planners to provide technical assistance		2023: No progress to date. Lack of funding for verification and cataloguing is the issue.
	recommendations	ag, pasture, and turf	College,		views	catalogue existing BMPs and do on the	O,		and ag planning	\$780,000 per year	In December of 2021, Dauphin County was awarded \$30,000 to conduct Phase 1 of a multi-phased BMP
	provided in QAPP	covers from grassed	Chesapeake		VICWS	ground verification where required for	outime		and ag planning	7700,000 per year	verification remote sensing effort. Dauphin County elected to use all of the money on the remote sensing
	provided in Quit	buffers	Conservancy,			reporting purposes, this is an	BMP field backcheck		5 – Student Internships to		analysis focusing on six priority BMPs including: Barnyard Runoff Controls, Animal Waste Management
	BMPs = forest buffers,		Stakeholder peer			accelerated BMP catch up approach			Support CAP Implementation		Systems, Forest Buffers, Grassed Waterways, Streambank Exclusion Fencing, wet ponds and detention
	urban forest buffers,	Manual digitizing where	review - USGS,			while we continue to provide support					basins. Remote sensing data analysis performed by the Chesapeake Conservancy is being finalized in August
	grass buffers, urban	leaf-off <1 ft resolution	Farm Bureau,			to farmers on planning and BMP					of 2022 and results are provided in an online ARC Gis Portal. Qualified 3rd party staff will begin field
	grass buffers, manure	imagery is available	PDA, EPA			installs, reduce the amount of				\$50,000 per year	verification efforts to verify the remotely identified practices. A BMP Verification Quick Guide is being
	storages, wet ponds					interruption of government entities on					developed by HRG to assist with field verification efforts. In April of 2022, the Foundation for Pennsylvania
	and wetlands, fencing	Back check with staff field				compliant farm operations.					Watersheds applied for a NFWF Most Effective Basins grant to support Phase 2 of the BMP verification
		views where required									analysis in the MEB in Dauphin County. Initial results from Phase 1 look excellent in providing opportunities
		Add data to Practice									to take credit for practices on the ground that are not currently reported.
		Keeper or another batch									
		upload option (FieldDoc)									
2.2*	Identify future	BMP opportunity analysis	Lead -	Countywide	2022 – cataloguing	Different data set scales/precision	Precision	N/A	Further GIS and data	\$46,000 (2022 only)	2024: No progress to date.
	ag/urban project	– ag conservation, land	Chesapeake	,		<i>'</i> '	Conservation Tools	,	processing/method refinement		, ,
	opportunities using	retirement, alternative	Conservancy		2023 – batch upload						2023: As a part of the Chesapeake Conservancy's Cooperative Agreement with the Chesapeake Bay Program,
	automated means	crop, forest conservation,			processing and field		Batch upload		5 – Student Internships to		the CIC has been working to adapt the USDA Agricultural Conservation Planning Framework (ACPF) toolbox
		stream restoration	Stakeholder peer		views		processing		Support CAP Implementation		and produce its related GIS conservation practice opportunity outputs for the entire watershed. The toolbox
			review –							\$50,000 per year	outputs a suite of NRCS agricultural practice opportunities at the field scale some have direct equivalents
		Back check with staff field	<u> </u>		2024 - 2025 —		BMP field backcheck				to Bay Program BMPs, while others do not. Since there are many assumptions made to produce these
		views	SHIP/PSU/Etc.		implementation focus						opportunity footprints across the entire watershed, they are not intended to be ground truth and should
		Batch upload to FieldDoc	University, USGS,								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.
		to calculate credit	PDA,								input. The outputs are expected to be publicly available after June 2024.
		opportunity	municipalities								2022: No progress to date.
		-7	with MS4								
			permits,								
			Municipal			<u> </u>				1	

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2.3*	Develop a local system	Add development related	•	Urban/subur		2 Currently municipalities are not	Reporting platform		Training	N/A	2024: No progress to date.
	to capture data	· .	engineers,	ban	2022	collecting BMP data because it is not	reporting platform	1,7,7	774111116	1477	202 ii ii progress to date.
	collection on urban		Chesapeake	landscape		required in non-MS4 communities.			5 – Student Internships to	\$50,000 per year	2023: No progress.
	structural and non-	are updated, there are	Conservancy,			Must incentivize communities to			Support CAP Implementation		
	structural practices	accompanying BMPs	DCPC, Tri County			report, no existing system in place.					2022: Phase 1 of BMP verification will identify Wet Ponds and Detention Basins in Dauphin County. Field
			Regional			FieldDoc would need to be accessible to			3 – Municipal Planner		verification will need to occur on these projects. PA DEP has updated FieldDoc to allow for additional
			Planning, student interns			municipalities to self-report BMPs that are installed and continue to function.				\$390,000 per year	reporting of urban practices.
2.4*	lusudans aut a	Commont foutilities		Carratinista	TDD based on fautilities		TDD based on	TDD based on	1 FTF Class Water		2022. No wadata
2.4*	Implement a documentation	Support fertilizer legislation – where	PSU Extension, PDA	Countywide	TBD based on fertilizer legislation if passed	Education of responsible parties, receiving timely information, training	TBD based on fertilizer legislation	TBD based on fertilizer legislation	1 – FTE Clean Water Coordinator for Planning	\$130,000 per year	2023: No update.
	program for	legislation requires			legisiation ii passea	on reporting system, will need direction		if passed	Commission	Urban Nutrient Management \$10 per	2022: On July 11, Governor Wolf signed SB 251, a bipartisan bill sponsored by Senator Gene Yaw (R) and
	commercial and	reporting, be the data				from State on what's expected and any	· ·	,		acre à \$10,000	Senator Carolyn Comitta (D), into law. Pennsylvania now has a law governing turfgrass fertilizer application
	homeowner nutrient	clearinghouse				reporting system that's developed.					dates, practices, rates, and type of fertilizer used. We are uncertain on how documentation and crediting
	applications in										will occur with the new bill.
	developed lands	Legislation will support the implementation of									
		Urban Nutrient									
2.5*	Improve Agricultural	Increase reporting of	DEP, DCCD,	Countywide	2022-2025	Private sector ag planners do not have	+		5 – Summer interns for	\$50,000 – per year	2024: DCCD participated in the Capital RC&D transect Survey in Spring 2024.
2.5	BMP reporting utilizing	' T	NRCS, PDA,	Countywide	-ULL LULJ	access to PracticeKeeper. Ag planners			reporting and verification	per year	2027. DOOD participated in the Capital Next Hallsect Julvey III Spring 2024.
	PracticeKeeper, Capital		NRCS, Dauphin			do not have time to report into PK.			, 5: 1: 1: 1: 1: 1: 1: 1: 1: 1: 1: 1: 1: 1:	See 3.5 for funding needs to improve	2023: DCCD participated in the Capital RC&D transect Survey in Spring 2023.
	RC&D Transect Survey,	·	County Farm							cover crop reporting for Capital RC&D	
	PSU Survey, Manure	Work with Capital RC&D	-			Current Capital RC&D routes are not all					2022: In the Spring of 2022 HRG participated in a beta testing group for the PracticeKeeper 3rd Party
	Transport Reporting	to improve current	RC&D,			inclusive and could be improved.					Module. PADEP initially released the module in June of 2022 before recalling the system for additional bug
	and Remote Sensing	transect survey routes to be more inclusive.	Chesapeake Conservancy,			Current response rates are low and					fixes. Phase 2 of the BMP verification grant submitted by the Foundation for PA Watersheds includes budge for interns from Susquehanna University to enter BMPs into PracticeKeeper.
		S MS. S MISIASIVE.	PSU Survey,			miss a large demographic of Dauphin					The state of the s
		Work with PSU to	Manure Brokers			County farmers.					
		produce better response									
		rate to the PSU survey for				Manure brokers are not required to					
Duinuit	Laitiation 2. Anhiero Nero	Dauphin County.				report data annually. CAST data is not					
	Initiative 3: Achieve New Implement Paxton	Restoration includes	Capital Region	North Paxton	2021 Pagin	Obtaining required permits for stream	NI/A	N/A	1 – FTE Clean Water	\$130,000 per year	2024: Susquehanna Township, CRW, and Lower Paxton Township have a Joint PRP for Paxton Creek which
3.1a	Creek Master Plan	naturalized channel,			implementation	corridor reconstruction, funding to	IN/A	IN/A	Coordinator for Planning	\$150,000 per year	will have achieved their sediment reduction goals with implementing a stream restoration project at Stray
	or cert master i lan	vegetated riparian zones,	ŕ		implementation	support expensive restoration efforts;			Commission		Winds Farm in Lower Paxton Township. Construction is underway (Fall 2024).
		green space, large parks,			Ongoing construction	plan implementation requires a					
		multi-use trails			and maintenance	dedicated, multi-jurisdictional team and	d		1 – FTE Clean Water		2023: No progress to date. County, City of Harrisburg, and Capital Region Water have been meeting in an
		North Pouton Poul	USGS	Paxton Creek		potentially significant land acquisition			Coordinator for Conservation	\$130,000 per year	effort to define roles and responsibilities to advance the Master Plan.
		North Paxton Park Greenway 7,600 linear		Greenway					District		2022: Capital Region Water and CREDC are taking the lead on this project, though many partners are at the
		feet							N/A		table and roles are being determined. A partner agreement will be drafted with quarterly meetings. Design
									·		funding is being investigated for the project. Once the concept design is completed, feasibility and final
		Paxton Creek Park 5,300								\$60 - \$90 million dollar estimate	design will be completed, including eminent domain as needed.
		linear feet									
		South Paxton Greenway									
		5,400 linear feet									
2.41	Implement Barder		Dona DOT C'' (Nowth D- 1	2024 Danin	Obtaining required a small of the state of t	NI/A	NI/A	1 FTF Class W-1	¢120,000 marrosar	Coo 2 1a abaya
3.1b	Implement Paxton Creek Master Plan	Provide adequate channel size and flood	PennDOT, City of Harrisburg,		2021 Begin implementation	Obtaining required permits for stream corridor reconstruction, funding to	IN/A	N/A	1 – FTE Clean Water Coordinator for Planning	\$130,000 per year	See 3.1a above.
	CICCK WIGSTELLIGH	conveyance to reduce	O,	Greenway,	implementation	support expensive restoration efforts;			Commission		
		100-year flood elevation		• •	Ongoing construction	plan implementation requires a					
		to 314 feet, provide	Water, USGS	Park, South	and maintenance	dedicated, multi-jurisdictional team and	d l		1 – FTE Clean Water		
		stormwater retention		Paxton Creek		potentially significant land acquisition			Coordinator for Conservation	\$130,000 per year	
		and treatment		Greenway					District		
		Ongoing monitoring							N/A		
		conducted by USGS							\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		
	Manualio	· ·	DCCD 5	N.4 1	2022 2025	VARIBLE TO SECURE A S		Call to the tr	4 FTF OL 1111	6420.000	2024. The identified was test to 2024 to the 1916 to the control of the control o
3.2 a	Manada Creek Coldwater	Prioritization of the stream channel for	DCCD, Doc Fritchey Chapter	Manada Creek Fort	2022-2025	Willingness of private landowner to implement BMPs that will improve		Coldwater Heritage Grant – 2013	e 1 – FTE Clean Water Coordinator for Planning	\$130,000 per year	2024: The identified project in 2024 is out to bid for construction in the fall of 2024. Additional projects through this partnership are possible for future years.
	Conservation Plan	restoration projects,		Indiantown		water quality.		Manada Creek	Commission		unough uns partificising are possible for future years.
		riparian restoration	· ·	Gap		11					2023: Through a partnership with Manada Conservancy and the Hershey Trust, DCCD has identified
		including buffers	Indiantown Gap,			Funding to support restoration efforts.			1 – FTE Clean Water		potential projects for 2024 and 2025.
			Manada Creek						Coordinator for Conservation	\$130,000 per year	
		Establish buffers	Watershed			Lack of technical assistance to promote			District		2022: No progress to date
		between MNDA 08.72 and 07.12	Association, Sewage			and support implementation of restoration practices.					2022: No progress to date.
		3114 37112	Enforcement			. coto. ation practices.				\$1,000,000 for plan implementation	
		Stream restoration below								and restoration prioritization	
		MNDA 07.12	municipalities in								
		Agriculture BMPs near	the watershed								
and the second second		AUDICHIEURA KIVIPS NAST	 In the second sec	T. Control of the Con	I .	The second secon	T	T.	I	T. Control of the con	

2024 Phase 3 Watershed Implementation Plan	/\ //ID \	Planning and Progress Report – DAUPHIN COUNTY	
2024 Filase 5 Watersheu Illipiellielitation Flan	(VVIP)	Plaililling 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 encountered a serious barrier											
			Responsible			Green - action has been completed or is moving forward						
Action			•	Geographic		Potential Implementation Challenges	Resources	<u>Avaliable</u>	Keso	urces <u>Needed</u>	Annual Progress to Date	
#	Description	Performance Target(s)	Partnerships	Location	Expected Timeline	or Recommendations	Technical	Financial	Technical	Financial	(2021 to 2024)	
3.2b	Clarks Creek Coldwate	Prioritization of the	DCCD, Doc	Clarks Creek,	2022-2025	Willingness of private landowner to			1 – FTE Clean Water	\$130,000 per year	2024: In 2024, the Plan was reviewed by the District and HRG. From the perspective of the District, because	
	Conservation Plan	stream channel for	Fritchey Chapter	Middle		implement BMPs that will improve			Coordinator for Planning		of the wooded nature of the watershed and low impact of urban centers and agriculture, there are no	
		restoration projects,	TU, Clarks Creek	Paxton		water quality.			Commission		foreseeable projects in Clarks Creek at this time.	
		riparian restoration	Watershed	Township								
		including buffers, include	Association,	and Rush		Funding to support restoration efforts			1 – FTE Clean Water		2023: No progress to date.	
		fish habitat restoration,	Middle Paxton	Township					Coordinator for Conservation	\$130,000 per year		
		promote stormwater	Township and			Lack of technical assistance to promote			District		2022: No progress to date.	
		management BMPs were	Rush Township			and support implementation of						
		feasible				restoration practices				\$1,000,000 for plan implementation		
										and restoration prioritization		

						Green - action has been completed or is moving forwa	•		ning and Progress Report – DAOPI	n taken or has encountered a serious barrier	
			Responsible								
Action #		Porformanco Targot(s)	Party(is) and			Potential Implementation Challenges	Technical	es <u>Available</u> Financial	Technical	ources <u>Needed</u> Financial	Annual Progress to Date
# 3.2c	Develop a WIP for Spring Creek East	Performance Target(s) Develop a WIP/Alternative Restoration Plan for Spring Creek that is consistent with CAP initiatives and can help to support implementation of the CAP.	Partnerships Doc Fritchey TU Penn State Extension, Derry Township Municipal Authority	, Spring Creek – Derry	2022-2025	Funding to support the development of a Coldwater Conservation Plan. No watershed organization currently exists for Spring Creek.		Financial	1 – FTE Clean Water Coordinator for Planning Commission 1 – FTE Clean Water Coordinator for Conservation District	\$130,000 per year \$130,000 per year \$150,000 for Coldwater Conservation plan development	(2021 to 2024) 2024: The Doc Fritchey TU is near completion on writing their 319 WIP for Spring Creek. They have received assistance in writing the plan from the Center for Watershed Protection, PSU, and EPR to complete the plan. Once the plan is approved, there has been activity to create a Spring Creek Watershed Association that will register as a 501c3 to revive grants to implement projects within the watershed. Three projects have already been identified on Spring Creek which would be legacy sediment removal and stream restoration projects that would look to be completed in 2025/2026. 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. 2022: \$14,971 from 319 grant funds (via pass-through from Trout Unlimited Doc Fritchey) to assist with the development of a 319 plan for Spring Creek (Hershey) - Penn State will be completing virtual and in person land surveys of the watershed in summer 2022 to create a comprehensive list of potential ag BMPs (and potentially urban stormwater). Water Quality Monitoring plan was approved by EPA.
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, contou farming/strip cropping, ag E&S control, floodplain restoration, constructed wetlands	<u>r</u>	Tri-county Conewago Cree Association, PSU AEC, Londonderry Township, Conewago Township, TetraTech, LandStudies, Re Barn Consulting TeamAg, Rosetree Consulting, HRG Dauphin County Conservation District, DEP, NFWF, NRCS, USGS	Watershed – Hoffer Creek, Brills Run, Lynch Run, Conewago mainstem		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	2024- Phase 4 of the stream restoration is currently in the design phase. Additional funding is required to remove the 130,000 cubic yards of legacy sediment that was removed and stockpiled on the site. 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.

		<u> </u>		ı		Green - action has been completed or is moving forwa	rd as planned <u>Yellow</u> - act	ion has encountered i			
Action				Geographic		Potential Implementation Challenges	Resources <u>I</u>			urces <u>Needed</u>	Annual Progress to Date
#	Description	Performance Target(s)		Location	Expected Timeline	or Recommendations	Technical	Financial	Technical Constitution of A of Plants and A	Financial	(2021 to 2024)
3.3*	Help farmers and operators to be in	Soil and Water Quality Conservation Plans (Ag	4R Alliance, DCCD, Dauphin	'	2022-2025	Lack of DEP inspections.	Educational support		6 – additional Ag Planners to work with farmers to develop	\$780,000 per year	2024: 9 Manure Management plans for 986.96 ac 10 AG E&S Plans covering 1017.44 Ac Nutrient Management Plans covering 401.07 Acres Nutrient
	compliance with state	E&S) 33,700 acres	County Farm	Ag Lanu		Reporting and verification of AG Plans,			required plans		Balance Sheets for 1070 Acres.
	and federal	LQ3/ 33,700 acres	Bureau, NRCS,			NRCS plans expire and do not get			required plans		Balance sheets for 1070 Acres.
	Conservation and	Nutrient Management	Private Sector			reverified, private plans are never					2023: A lack of plans has been identified by DCCD as a barrier for implementing projects. Through farmer
	Nutrient Management	(Manure Management)	Agriculture Farm			entered.					outreach, DCCD is working to identify gaps in plans and target farms that require them.
	Plans	4 0,300 20,000 acres of	Visits							\$15 per acre for a total cost of	
		Core N, 14,400 20,000				Lack of technical assistance to support				\$505,500	DCCD has prepared 16 Manure Management Plans in 2023 totaling 1,446.83 acres and 13 Ag E&S plans
		acres of Core P				agriculture planning and					totaling 2,131.79 acres. Nutrient management totals are 1,674 acres and nutrient balance sheets total 1,231
						implementation, one on one farm				\$15 per acre for a total cost of	acres.
		Work with ACT 38				outreach is best way to capture existing				\$604,500	
		operators (22), Preserved				plans.					
		Farms (193), and certified									2022: PACD recently announced their Growing Greener grant for Ag Plan Reimbursement. Farmers in
		organics to document				Act 38 plans and plans for preserved					Dauphin County will be able to take advantage of this opportunity to produce Ag E&S and Manure
		plans required as part of				farms not required to be entered into					Management Plans. HRG attended the rollout of this program to maximize opportunities to get farmers
		the program				PK, the recommendation is to require					additional plans.
						State programs to enter plans into PK					From 2020 to 2021 Daughin County increased Nutrient Management Core N by over 4 200 acres and
						State agencies must work with					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
						integrators to ensure they are requiring					increased by over 1,400 acres.
						compliance by farmers. Some					mercuscu by over 1,400 deres.
						intogrators require compliance but not					DCCD plans to continue outroach and writing plans por the State Conservation Commission Delogation
3.4	Advanced Nutrient	Transition manure	4R Alliance, CBF,	•	2022-2025		Educational support		6 – additional Ag Planners to	\$780,000 per year	2024: No progress to date.
	Management (4R)	management plans to	DCCD, Dauphin	AG Land		(annual)			work with farmers to meet 4R		
	Practice Education and	nutrient management	County Farm						standards		2023: HRG has worked with the counties on methods to integrate supplement NM reporting into current
	Implementation	plans and incentivize	Bureau, NRCS,			Lack of Technical assistance to support					workflows in the Chesapeake bay Contract, Nutrient Management Contract, current PSNT programs, and
		implementation	Private Sector			agriculture planning and implementation					equipment rental programs. HRG also provided outreach at several events to increase adoption of 4R
		Increase reporting of	Agriculture Farm Visits			implementation				\$10 per acre of advanced nutrient	practices within the region.
		supplemental nutrient	VISICS			Additional funding to support soil				management planning per type total	2022: No progress to date
		management BMPs				testing. Soil testing is key to meeting				cost for all is \$67,000	2022. No progress to date.
		through existing				the recommendations of supplemental				0001 101 un 10 \$01,000	
		programs and initiatives				BMPs.					
						Machine dependent for most farming					
		Increase existing 4R				operations					
		practice N Rate by 1,700	-								
		acres, N Timing and				Cost of fertilizer is self-regulating					
		Placement; P Timing,				farmers to use less fertilizer; therefore,					
		Rate and Placement by				lower rates					
		1,000 acres.									
		Increase existing 4R practice N/P Rate,									
		Discoment Timing by									
3.5*	· ·	Determine feasibility of	•	·	2022 – investigation	Capacity to manage the program at the	Transect survey		6 – additional Ag Planners to	\$780,000 per year	2024: Dauphin County planted 10.077 acres of cover crops in 2024.
	improve soil health and	-	•	Ag Land		county level, landowner interest			transition farmers to high		
			Bureau, NRCS,		2022				residue		2023: Dauphin County planted 7,742 acres of cover crops in 2023.
		enhance adoption of the			2023 – next steps	Lack of technical assistance and farm			County DCCD staff to		2022. From 2020 to 2021 Cover Crops in Dovebia Coverts in annual delice cover 0.500 cover
	Cover Crops)	annual practice	Agriculture Farm			planners to work with farmers to			County DCCD – staff to	¢00 per sere traditional per veer	2022: From 2020 to 2021 Cover Crops in Dauphin County increased by over 8,500 acres.
		Implement tillage	Visits			transition to High Residue Tillage			administer the program	\$90 per acre traditional per year \$540K for a 5-year total of \$2.7M	
		management and cover				Current verification methods do not				(incentive payment, administration,	
		crops on an annual rate				accurately capture implemented				Capital RC&D reporting)	
		of 24,000 45,000 acres				amounts – work with Capital RC&D to				\$50 per acre fall nutrients per year	
		High Residue, 10,000				improve Transect Survey Routes				\$750K for 5-year total of \$3.75M	
		14,000 acres									
		Conservation Tillage,				Farmers are harvesting cover crops for				\$50,000	
		4,000 3,000 acres Low				forage, need accurate efficiency					
		Residue, 6,000 21,000				crediting for commodity cover crops					
		acres of cover crops. and	 								
		15,000 acres of cover				Existing Cover Crop Programs have			Capital RC&D Transect Survey		
		crops with fall nutrients				strict plant by date that does not work					
						with changing weather patterns and					
	1	I	1	I	l	wetter years	ı			The second secon	

2024 Phase 3 Watershed Implementation Plan (WIP) Planning and Progress Report – DAUPHIN COUNTY

					<u>(</u>	Green - action has been completed or is moving forwa	ard as planned Yellow - a	ction has encountered mir	nor obstacles Red - action has not been t	taken or has encountered a serious barrier	
ction			Responsible Party(is) and	Geographic		Potential Implementation Challenges	Resource	Available	Resou	irces <u>Needed</u>	Annual Progress to Date
#	Description	Performance Target(s)	Partnerships	Location	Expected Timeline	or Recommendations	Technical	Financial	Technical	Financial	(2021 to 2024)
3.6 In	mplement more	Off Stream Watering –	DCCD, Dauphin	County ag	2025	Landowner education, BMP funding for	Landowner		6 – additional Ag Planners to	\$780,000 per year	2024: Capital RC&D is spearheading an initiative to identify project locations for additional BMPs to be
p ^r	asture management	150 1,100 acres	County Farm	lands –		non-buffer work, plan updates, data	education		provide technical assistance		implemented on farms.
B ^r	BMPs		Bureau, NRCS,	landowners		gathering			and ag planning		
		Forest buffers on fenced	Private Sector	who raise							2023: Prescribed grazing established as a new goal for 2023.
U	Jse Ag Land	pasture corridor – 10 150	Agriculture Farm	horses, dairy,		Lack of Technical assistance to support			3 – additional FTE		
P	reservation Goals to	acres	Visits, CBF	beef and		agriculture planning and			environmental technician/rapid		2022: Phase 1 of BMP verification identified 247 potential hits for streambank exclusion fencing. This data
re	each Pasture		·	other pasture		implementation			delisting program management	\$390,000 per year	set will allow for increased reporting of buffered acres with exclusion fencing.
		Grass buffers on fenced		grazing		·					. G
	_	pasture corridor – 10 300		animals		Old NRCS plans need to be updated to					
		acres				comply with prescribed grazing					
						definition – difficult to get landowner				Off stream Watering \$500 per acre	
		Land Retirement to Ag				buy-in – fund alternative watering and				\$75K total	
		Open Space – 170 650				fencing; most pastures are streamside					
		acres				J .				FB Buffer W/ Exclusion \$10,500 per	
						Increasing construction costs are				acre \$105K total	
		Precision Intensive				cancelling NRCS contracts				,	
		Rotational/Prescribed								GB Buffer W/ Exclusion \$2,750 per	
		Grazing - 300 acres								acre \$27.5K total	
		Grazing 300 acres								ασιο φ27.3κ τοταί	
										Land Retirement \$500 per acre \$85K	
	•	363 riparian forest buffer		•	2022 -2023 – line up	Landowner partnerships, landowner	Materials		_	\$780,000 per year	2024: A 2.75 acre buffer is being implemented by the Manada Conservancy in the fall of 2024.
fc		acres, (353) acres lost	County		landowners for new	education, volunteer acceptance of		be determined	provide technical assistance		
		since 2017 need		·	acres, re-verify acres	buffer plantings, buffer maintenance			and ag planning		2023: Utilizing CAP funds, DCCD is installing 3.5 acres of buffers across two sites in Spring 2024.
		reverified		-	"lost" in reporting	guide for farmers, routine site visits to	Mapping				
			Association, TU –		system	confirm buffers are thriving, invasive			3 – additional FTE		A 2024 project has been identified with the Manada Conservancy which will account for 6+ acres of buffe
		41 750 riparian grass	• •	Smith Center,		species removal during establishment			environmental technician/rapid		
					2023-2025 – in the field				delisting program management		The Capital Area Greenbelt association is leveraging a 2022 Community Conservation Partnerships Progra
		lost since 2017 need	Creek/ Tri-		implementation	Lack of technical assistance to conduct					grant of \$54,600 for the construction of approximately 12 acres of riparian forest buffers between 19th a
		reverified	Valley/ Twin	park		landowner outreach, implementation					28th streets, along the Lower Spring Creek. The project is almost halfway through the four year effort, site
			Valley/			and maintenance of proposed projects					preparation and planting has been completed with two years of establishment remaining.
		29 300 acres –	Wiconisco/			51 1 1 1 1 1 1 1 1				Forest Buffer \$10,500 per acre \$325K	
		Agriculture Tree Planting				Flash grazing must be allowed with					2022- DEP Growing Greener - Prioritizing Forested Buffer Incentives - Tier 1 and 2 Counties, Huntingdon,
		12 acres – urban forest	Watershed			buffer installation				Grass Buffer \$2,500 per acre \$25K	Juniata, and Dauphin - NRCS Codes:
		buffer	Association,			Funding program must include a F 10					560/575/340/382/561/468/516/367/558/578/580/620/645/360/313/614 - Conservation Districts and
		butter	Manada			Funding program must include a 5-10-					NRCS, This project will pickup landowner cost-share for NRCS practices if a buffer is installed, we also pay
		Forest Conservation –	Conservancy, NRCS, DCCD,			year maintenance program to establish buffers along with incentive program				'	site prep and maintenance of buffers. We have 12 projects, still looking for more, and are in the process contracting with 7 contractors to do site prep and maintenance on buffers.
		2,100 acres	Municipalities,			\$4K minimum per acre payment				Forest Conservation \$2,000 per	contracting with 7 contractors to do site prep and maintenance on buriers.
		2,100 acres	Environmental			74K IIIIIIIIIIIIII per acre payment				· · ·	In September of 2022, HRG will contact the Alliance for the Chesapeake Bay to establish a Riparian Range
		Tree Planting - Canopy -	Team Corps,							'	Program in Dauphin County. PSU Extension Master Watershed Stewards will be the leader in running the
		1 acre	CAGA, PWECA,								program.
8.8 V	Vetland restoration	20 acres of Wetland	Nature	Hoffer Creek	2022-2025	Willing landowner; appropriate siting,	Landowner		3 – additional FTE	\$390,000 per year	2024: HRG has been utilizing existing maps and outreach to determine potential locations for wetland
	mplementation on	Restoration	Conservancy,	(TNC),		design, and construction for successful			environmental technician/rapid		restoration projects. From there HRG plans to develop a regional grant application for the SRBC
	narginal production ag		• •	Armstrong		restoration result.	o del caoli		delisting program management		Consumptive Use Grant.
la Ia		Identify 1 large property	· ·	Creek,		restoration result.			denstring program management		consumptive ose Grant.
1.0		owner from University of		· ·		Lack of technical assistance for			2 – stream biologist		2023: As part of 2023 CAP funds, in Spring of 2024, 1.5 acres of wetland will be replanted to replace lost
		·	Farmer, Manada			landowner outreach and agriculture					trees in Lower Paxton Township. Additional wetland restoration has been identified in the area an may b
		wetland layer to help	·	Swatara		planning to identify potential site					planted in Fall 2024.
		identify where wetland	,	Creek (East		locations.					
		restoration is feasible		and South						Wetland Restoration \$30,000 per	2022: no progress to date.
				Hanover						acre \$600K	
.9 St	tream restoration	49,800 5,000 LF (1 mile)	Army Corps of	Townshin) Rural areas of	2022 – 2025	Design/permit/construction cycle	GIS		Design, permit, construction	Assume urban \$900/LF - \$45M	2024: Susquehanna Township, CRW, and Lower Paxton Township have a Joint PRP for Paxton Creek whic
اد.		(9 miles) Urban Stream	, ,	Dauphin		seems to work in two-year increments,					will have achieved their sediment reduction goals with implementing a stream restoration project at Stra
		Restoration	Chesapeake Bay			there is an assumption that				The state of the s	Winds Farm in Lower Paxton Township. The project construction is underway (Fall 2024).
			Foundation, PA	·		eroded/degraded streams exist based	Design/GP-1 nermit				The project construction is underway (rail 2024).
			•	Creek		upon 403(d) listing – should that not be					2023: The Capital Area Greenbelt Association is using a 2021 Growing Greener grant of \$230,150 at Spri
		(3 miles) Agriculture	Commission,			the case in the field, adjust quantitative					Creek Ivey Apartments Site (SCILAS) which created streambank restorations which were completed in 20
		Stream Restoration	Watershed	Urban areas -		goal down and ensure buffers are in			3 – Municipal Engineers	, , , , , , , , , , , , , , , , , , , ,	The streambank restorations were approximately 500 feet, including Boulder/Log Revetment. 50 linear
			associations, DF			place.					Mud Sill. 40 linear feet, Boulder Toe and Bank Regrading with Habitat Logs. 250 linear feet, Boulder Banl
		Armstrong Creek has	Chapter TU, MS4								Revetment. 100 linear feet, and Gravel Bar Removal. Installing the Native Plantings to be completed in the
		shovel ready project	•	Slotznick		Lack of funding to cover engineering					Fall of 2023.
		needs \$800k in funding.		Run, Swatara		design. Chesapeake Bay Pollutant			3 – FTE Design, Engineer,	\$420,000	
				Creek and its		Reduction Plans are primarily focused			Permit		2022: The Conewago Creek Stream Restoration project received over \$500k in CAP funding to complete
				tributaries,		on stream restoration, so it's a great					stream and floodplain restoration. Phase 1 construction is set to be completed by the end of 2022. Phase
				Conewago		partnership opportunity for the county			2 – Stream biologist	\$280,000 per year	is finalizing municipality agreements to facilitate land acquisition.
			-			to assist municipalities where there's a					
				Creek and its		to assist marrierpanties where there sa					
				urban		need for regional funding solutions for					
						·					
				urban		need for regional funding solutions for					
				urban		need for regional funding solutions for the current permit term and future					

					Green - action has been completed or is moving forv	vard as planned <u>Yellow</u> - a	ction has encountered r	minor obstacles <u>Red</u> - action has not been	taken or has encountered a serious barrier	
Action			Responsible Party(is) and Geographic		Potential Implementation Challenges	Resource	s <u>Available</u>	Reso	urces <u>Needed</u>	Annual Progress to Date
#	Description	Performance Target(s)	Partnerships Location	Expected Timeline	or Recommendations	Technical	Financial	Technical	Financial	(2021 to 2024)
3.10	Implement more	24 60 acres of barnyard		2022-2025	Lack of Technical assistance to support			6 – additional Ag Planners to	\$780,000 per year	2024: 2.6 acres of barnyard runoff control were installed on projects in 2024.
	barnyard runoff	runoff controls	Dauphin County Farms		agriculture planning and			provide technical assistance		2022. No sussesses to data
	control/loafing lot management	2 acres of loafing lot	Farm Bureau, Private Sector Ag		implementation.			and ag planning		2023: No progress to date.
	management	management	Consultant		Lack of funding to cover engineering			3 – FTE Design, Engineer,		2022: Phase 1 of BMP verification will identify where barnyard clusters are located and determine if they are
					design.			Permit		livestock operations or poultry operations. This will help determine potential locations for management
		39 acres of agriculture							\$420,000 per year	BMPs.
		drainage management			Increasing construction costs are			3 – FTE Inspector construction		
					cancelling NRCS contracts.			Services	\$215,000 par year	
									\$315,000 per year	
									Barnyard Runoff Control \$175K per	
									project, assume 1 acre per project	
									\$1.725M in total	
2 110	Animalwasta	2 000 22 500 Alla	NDCC DCCD Livesteek and	2022 2025	Time to get through planning design	Facinossino		C additional As Dlansas to	Agriculture Stormwater Management	
3.11a	Animal waste management BMP	2,000 33,500 AUs managed through new	NRCS, DCCD, Livestock and County Farm Poultry farms		Time to get through planning, design, and construction; outreach to smaller	Engineering		6 – additional Ag Planners to provide technical assistance	\$780,000 per year	2024: 528.8 AEUs of animal waste management were implemented in 2024.
	implementation for	BMPs	Bureau		farms that likely need the assistance;			and ag planning		2023: 846.56 AUs of animal waste management and 245.36 AUs of animal mortality composting were
	livestock				match cash value for small farms;					implemented in 2023.
		1,700 AUs animal			readiness to plan/implement projects			3 – FTE Design, Engineer,		
		mortality composting			when outreach efforts yield willing			Permit	4	2022: BMP Verification Phase 1, shows the potential to report an additional 108 animal waste storage
		management			landowners.			2 FTF Impropriate a construction	\$420,000 per year	facilities currently not reported through PracticeKeeper. This will help determine potential locations for
					Lack of funding to cover engineering			3 – FTE Inspector construction Services		management BMPs.
					design.			Jei vices	\$315,000 per year	
									, ,	
									Animal waste management system \$175,000 per project, assume 100	
2 11h	Manure Transport out	Transport 2,000 dry tons	DCCD, NRCS, Countywide	2022-2025	Current reporting standards do not			1 – FTE Clean Water	\$130,000 per project, assume 100	2024: No progress to date.
3.110	of Dauphin County	per year out of county	Dauphin County	2022-2023	require manure broker and haulers to			Coordinator for Conservation	\$130,000 per year	2024. No progress to date.
	от <u>– аар</u> тт – остану	per year ear er county	Farm Bureau,		report manure transported. New			District		2023: New goal for 2023
			Manure Brokers		regulations must be developed to					
					require haulers and brokers to submit					
2 12*	Urban Stormwater	Implement existing	DCPC, DCCD, County-wide	Ongoing	information to DEP. Coordination/ training for municipal	Reporting platform		5 Summer interns for reporting	7 ¢50 000 por year	2021: Poth Upper Dauphin Communities have desided to not remain in WPED. However, Upper Dayton
3.12	Management Non-	ordinances and Catalogue		Oligoling	staff, FieldDoc batch opportunity, non-	- ·		and verification	3 330,000 per year	2024: Both Upper Dauphin Communities have decided to not remain in WREP. However, Upper Paxton Township and Millersburg Borough are working independently to combine efforts for a flooding /
	Regulated	existing BMPs that fit into		2022-2025	MS4 engagement (what's in it for					community water improvement project for the Tanners Run area.
	Communities	this category	Tri County		them?), difficulty obtaining past					
		. ".	Regional		information (MS4s typically have			2 14 15		2023: Funding remains an issue for those communities not included in WREP. One, non-regulated
		Runoff Reduction Performance Standard –	Planning, Municipal		databases from 2003-present)			3 – Municipal Engineers	\$420,000 per year	municipality is involved with WREP. Buy-in was offered to multiple municipalities, but without regulation, most did not see the benefit.
		936 4,000 acres treated							7420,000 per year	most did not see the benefit.
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Master					3 – municipal planner		2022: A potential pilot project has been identified in Millersburg Borough and Upper Paxton Twp.
		Stormwater Treatment	Watershed							
			Stewards						\$390,000 per year	
		13 acres treated								
									Project hudget: \$4M	
3.13*	MS4-related	Plan implementation by		_	if Municipal capacity to implement plans		Unknown	3 – Municipal Engineers	\$420,000 per year	2024: MS4s continue to implement their individual PRPs.
	Chesapeake Bay	end of current permit	Township, Lower planning area	-	(technical, financial)	design/permit,		2 _ municipal planes		2022: MSAs continue to implement their individual DDDs
	Pollutant Reduction Plan Implementation	term (2023)	Paxton Township,	permittees	Develop a grant funding source just for	construction readiness		3 – municipal planner	\$390,000 per year	2023: MS4s continue to implement their individual PRPs.
	. ian implementation	Wet Ponds and Wetlands			MS4 communities so they are not	<u>reaumess</u>			7000,000 per year	A goal of WREP is to have the 15 MS4 municipalities participating in the program enter into a join PRP in
		- 167 acres treated	Township,		competing against all stakeholders.	MCM Support,			Project budget \$5.4M	2024.
			Capital Region		Need larger sources of funding.	which may result in				
		Bioretention and	Water, Swatara			project readiness –				2022: No progress to date.
		Raingardens – 153 acres			Land available to implement projects.	see County 2021-				
		treated	Swatara Township,		Expanded flexibility to work outside of	implementation				
		Bioswale – 75 acres	Londonderry		designated areas	plan				
		treated	Township,		Ĭ,					
			Hummelstown							
		Vegetated Open	Borough,							
		Channels – 18 200 acres								
		treated	Borough, Penbrook							
		Infiltration Practices – 32								
		200 acres treated	Steelton							
			Borough,							
		Dry Extended Detention	Highenira		1				1	

2024 Phase 3 Watershed Implementation Plan (WIP) Planning and Progress Report – DAUPHIN COUNTY Green - action has been completed or is moving forward as planned Vellow - action has encountered minor obstacles Red - action has not been taken or has encountered a serious barrier												
		Responsible		<u>_</u>	action has been completed of is moving forwer							
action		Party(is) and	Geographic		Potential Implementation Challenges	Resources	<u>Available</u>	Resou	ırces <u>Needed</u>	Annual Progress to Date		
# Description	Performance Target(s)	Partnerships	Location	Expected Timeline	or Recommendations	Technical	Financial	Technical	Financial	(2021 to 2024)		
3.14 Conservation	Promote new program	DCPC, DCNR,	Developed	2022 - 2025	Landowner education and acceptance.	Planting plan		3 – FTE Municipal Planner	\$390,000 per year	2024: Two projects, one at Dauphin County Work Release and one at St. Nicholas Serbian Orthodox Chur		
Landscaping/Turf to	and enable one large	Watershed	areas in			assistance				will establish a total of 2.84 acres of turf to meadow conversion through CAP Block Grant funding. The		
Meadow Conversion	tract landowners'	Organizations,	County		Existing mowing ordinances and weed			3 – additional FTE		projects are being bid in Fall of 2024 with implementation in Spring of 2025.		
	participation	Municipalities,	municipalities		ordinances can be a challenge to			environmental technician	\$390,000 per year			
		PSU Master			implementation.					2023: A project has been identified along Spring Creek in Swatara Township. This project will be		
	100 10 new acres of	Watershed								implemented in 2024.		
		Stewards,							\$2 E00 per sere mondow à \$2E0 000	2022: \$6,100 from WDC DCND Watershed Forestry Funding awarded to East Hanever Township Parks as		
.15* Continue dirt, gravel,	Landscaping 14 miles overall restored	Audubon, TNC,	Countywide	2025	Continue D&G Road program funding.	Education, technical	\$1.68 Million	1 – FTE Clean Water		2022: \$6,190 from WPC DCNR Watershed Forestry Funding - awarded to East Hanover Township Parks a 2024: No projects have been completed in 2024, however, projects are in the pipeline to be completed		
-	through past projects and		Countywide	2023	Continue D&G Road program funding.	assistance, project	71.00 WIIIIOII	Coordinator for Conservation		through 2024 and into 2025.		
	future projects				Expand Dirt and Gravel Road Program	oversight		District	Dirt and Gravel Roads \$40 per foot			
P O. a					to include farm lanes.	o constant			·	2023: 2 DGR projects, one 3,437.17 feet long and one 3,365.43 feet long, were installed in 2023.		
	Dirt & Gravel Road											
	Erosion & Sediment									2 LVR projects, one 6,506.94 feet long and one 3,365.43 feet long, were installed in 2023.		
	Control - Driving Surface											
16* Work with PennDOT	Educate local municipal	Local	Countywide	2022	PennDOT's and Municipal willingness to			1 – FTE Clean Water	\$130,000 per year	2022: No progress to date.		
and local municipalities		Municipalities,	County wide		cut back on mowing programs. DEP]		Coordinator for Planning	3130,000 per year	2025. No progress to date.		
to reduce frequency of		DEP and			Chesapeake Bay Program will need to			Commission		2022: No progress to date.		
· ·	state owned roads on the				assist in the education of PennDOT.			Commission		2022. No progress to dute.		
and along roadways	importance of keeping							1 – FTE Clean Water				
, , ,	higher vegetation along							Coordinator for Conservation	\$130,000 per year			
	roadways to prevent							District	, , ,			
	erosion and increase											
	nutrient uptake.											
3.17 Private Funding &	Identify some private	Existing project	Countywide	2022-2023	Need to expand network, educational	Financial services		1 – FTE Conservation District	\$130,000per year	2024: No progress to date.		
Grant Administration	funding sources that may	implementer			aspect of less common funders,			Grant Manager				
	be able to supplement	networks, Ag			logistics of utilizing unproven funding					2023: FFAR and Walton Family Foundation opportunities did not proceed. No progress to report from		
	public funding	Choice Farm			sources (or lesser known).			1 – FTE Planning Commission		County-led activities.		
	sources/existing sources	Credit, Hershey						Grant Manager				
	utilized for stakeholders,	Trust			Grant administration is a challenge due				· · · ·	2022: HRG and LFT are exploring potential opportunities to apply to the Foundation for Food & Agricult		
	continue to work with				to limited staff and time-consuming			2 – staff accountants		Research (FFAR) and the Walton Family Foundation's new program, Achieving Conservation through		
	partners to facilitate				nature of grant reporting and					Targeting Information, Outreach and Networking (ACTION) to support innovative research that increases		
	additional funding				administration.					adoption of conservation practices. A potential grant application would bolster farm visits in Dauphin		
									\$140,000 per year	County to increase the adoption of Conservation Practices.		
3.18 Partner with local	Partner with The Hershey	The Hershey	Countywide	2022 – assist The	Funding to support ongoing PSU	CAP Coordinator		PSU Extension Coordinator	\$10,000 per year	2024: The County CAP Partnership continues the partnership with the Manada Conservancy and the		
environmental	Company, Land O' Lakes	Company, Land		Hershey Company with	Extension support					Hershey Trust.		
•	and PSU Extensions to	O' Lakes, PSU		corporate development				1 – FTE Clean Water				
		Extension and			Reporting Conservation Practices			Coordinator for Planning		2023: 2023: Through a partnership with Manada Conservancy and the Hershey Trust, DCCD has identifie		
conservation work	education and outreach	Master		targets for water for	installed with private integrator funding			Commission		potential projects for 2024 and 2025.		
	and utilize resources.	Watershed		their cooperate								
	Mank with DCII automaian	Stewards (14),			Support Ag Conservation Assistance					2022: No progress to date.		
	Work with PSU extension			connect with Audubon	Program (ACAP)							
	to secure long term funding for Master	Watershed Stewards,		on Green Ribbon Landscape								
	Watershed steward	Audubon, TNC,		opportunities in								
	coordinator.	CBF, PennAg		Dauphin County								
		55. 7 . 61117 18		Saapiiii County								
	Work with Audubon to			2023-2025 – evaluate								
	leverage Green Ribbon			opportunities								
	Landscapes and partner											
	on more plantings in											
	urban areas.											
	1											

							•	. ,	ning and Progress Report – DAUPI		
			Responsible		<u> </u>	Green - action has been completed or is moving forward	ard as planned <u>Yellow</u> - a	ction has encountered	minor obstacles <u>Red</u> - action has not beer	taken or has encountered a serious barrier	
Action			Party(is) and	Geographic		Potential Implementation Challenges	Resource	s <u>Available</u>	Reso	urces <u>Needed</u>	Annual Progress to Date
#	Description	Performance Target(s)	Partnerships	Location	Expected Timeline	or Recommendations	Technical	Financial	Technical	Financial	(2021 to 2024)
4.1	Develop new water quality monitoring data into Chesapeake Data		ALLARM, TU – Doc Fritchey, Swatara/ Paxton	Countywide	2022	Data precision, QAQC, opportunity to educate landowners about local stream health and what they can do about it	Data QAQC and training	N/A	Volunteers for Water quality monitoring	N/A	2024: Dauphin County Conservation District is considering investing time and resources into additional water quality monitoring if new WIPs are established in the County.
	Explorer/ Chesapeake	environmental groups program by end of 2021	Swatara/ Paxton Creek/ Tri- Valley/ Twin Valley/ Wiconisco/ Clarks Creek, Watershed Association, SRBC, Manada Conservancy, DCCD, DEP			nealth and what they can do about it	Data input		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.
4.2	Leverage restoration of Wildwood Lake in terms of sediment reduction credits and study of nitrogen reductions tied to performance of retained wetlands	Completed background study of nitrogen reduction performance by existing wetland system Formal partnership between Dauphin County and USACE through Section 206 for the Aquatic Ecosystem Restoration program, utilizing Growing Greener grant as local match toward initial phases of the project	Dauphin County Parks and Recreation Department, DEP, USACE, Friends of Wildwood, HRG, Normandeau	Lake park property (owned by Dauphin County,	2022-2024 2021-2022	The many co-benefits of restoration are sometimes 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 at least \$10 million, and the only cost-effective approach is through a USACE partnership.	mapping and abbreviated wetland absence/presence	N/A \$147,000	Bio- and geochemical study of nitrogen sequestered/processed by wetland system Feasibility study, design, engineering, construction	\$10M (estimated, to be confirmed upon potential USACE feasibility study)	2024: Final permit submittal will occur in 2024 while project fundraising continues by County partners. 2023: Wildwood Park restoration/dredging is shovel ready for Phase 1 with the exception of final permits from USACE. Dauphin County continues to pursue construction funding from various sources. The nitrogen reduction study concept has not yet advanced but will likely gain traction once the construction schedule is known. 2022: The formal partnership with USACE did not occur due to it being unacceptable for Growing Greener funds to be used as match. The design of the restoration project has advanced and will be completed by the end of 2022. No comprehensive funding source exists for the implementation of the full project, so phased fundraising will advance in early 2023 and will continue. The nitrogen reduction performance study has not advanced due to lack of funding and as a result of having to pivot from the USACE partnership but remains a goal through 2024.
4.3	associations for short-	to support with CAP implementation. Watershed organizations can support with outreach, engagement, new project identification and implementation	Valley/ Twin Valley/	Countywide	Ongoing	Willing volunteers and leaders to establish and run watershed organizations to be successful and support with implementation.	Social media shares, meeting logistics Project development support	Limited match	1 – FTE Clean Water Coordinator for Planning Commission 1 – FTE Clean Water Coordinator for Conservation District	\$130,000 per year \$130,000 per year \$5000 per organization to produce promotional materials (hats, shirts, stickers) for members \$40,000 per year	2024: POWR has applied for Growing Greener funds to obtain resources for Watershed groups to utilize for technical assistance for project design. 2023: Through a partnership with Manada Conservancy and the Hershey Trust, DCCD has identified potential projects for 2024 and 2025. 2022: \$162,422 from DEP Growing Greener - a portion of these funds supported to initiation of the Master Watershed Stewards program in Dauphin County. The funds are set to expire in December 2022. Live Stakes planted in Centennial Acres park (Lower Paxton) as well as a live stake nursery to expand access to live stakes for future projects, as well as educational signage. Future NFWF funding to support ongoing work by the PSU - AEC in the southeast portion of Dauphin County.
4.4	Leverage Dauphin County Return on Environment and Kittatinny Ridge conservation goals	Partner with Kittatinny Ridge where goals align with evolving CAP implementation	The Nature Conservancy, DCNR, Audubon Pennsylvania, Appalachian Trail Conservancy, get	<u>Area</u>	Ongoing	Future land conservation efforts will take time and funding to see through in the Kittatinny corridor, but they are important to pursue because they preserve clean water.				TBD	2024: No update. 2023: Increasing the advertising and awareness has occurred in 2023. 2022: Audubon Pennsylvania and Manada Conservancy are prioritizing land for protection.