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Action	Description	Performance Target(s)	Responsible Party(ies) and	Geographic Location	1	Potential Implementation Challenges or	Resources <u>Ava</u>	_		es <u>Needed</u>	
			Partnerships			Recommendations	Technical	Financial	Technical	Financial	Annual Progress to Date (2021 to 2024)
Prior	ty Initiative 1	: County Programmatic Initia	atives								
1.1	County Integrated	Develop an integrated water plan to address water quality concerns in Perry County. Utilize existing plans that incorporate water quality goals to define more precise goals and leverage resources.	PCPC, Multi-partners, County Comprehensive Plan, Hazard Mitigation Plan, Perry County Greenways, Parks, Recreation and Open Space Plan, Act 167, Act 537 Plans, Source Water Protection, existing TMDLs	Countywide	2022	Connect County plans in meaningful ways to meet local water quality goals	Existing Perry County Water Supply Plan, Comprehensive Plan	TBD – Will require a substantial revision	1 – FTE Clean Water Coordinator for Planning Commission 1 – FTE Clean Water Coordinator for Conservation District Plan development	\$130,000 per year \$130,000 per year \$150,000 for plan development	2023: Insufficient funding to address Act 167 as part of a fully integrated approach. PADEP officials stated CAP money cannot be used. 2022: Met with DEP to discuss the opportunity and there are no available resources to support plan development. The County Comprehensive Plan is 75% complete and will be complete this year. The need for stormwater ordinances will continue to be a priority. CAP implementation is specifically called out as a goal
1.2A	County Comprehensive Plan policies and actions	Encourage that growth activities address existing water quality impairments through stormwater BMP implementation already required by local ordinance Annual review of municipal comprehensive plans for action items providing water quality benefits Annual solicitation of municipal interest in the Local Planning Assistance (LPA) Program Encourage the adoption of stream buffering and natural resource protection ordinances 3,000 acres of forest conserved	County Commissioners, Perry County Planning Commission, Municipal Governing Bodies, Municipal Planning Commissions, Municipal Zoning Officers, Perry County Greenways, Parks, Recreation and Open Space Plan	County Municipalities Prioritize public spaces	Ongoing	Educating municipalities, updating local plans and ordinances, growth areas not consistent with Census urbanized areas Venue space for in-person meetings. Limited staffing. Municipal Officials have a tendency to chart their own direction. Outdated Municipal plans and lack of action attending to water quality.	Outreach and Education Plan Preparation encouraging buy-in with the Perry County Comprehensive Plan (One size-fit-all approach) Ordinances preparation Field work and project identification Held 30 meetings with the Natural Resources and Recreation Workgroup and the Economic Issues Workgroup (15 apiece)	\$62,100 (A portion of the budget) All 30 municipalities are eligible	2 – Municipal Engineers 1 – municipal planner 1 – FTE Clean Water Coordinator for Planning Commission 1 – Administrative Assistant	\$280,000 per year \$130,000 per year \$130,000 per year \$75,000 per year \$2,000 per acre of forest easement 2 \$6M total	in the County Comprehensive Plan. 2024: No Update 2023: Continue to support municipal efforts found to be consistent with the PICTURE PERRY Comprehensive Plan. In 2023, there has been support for two water system improvement projects in Duncannon Borough and Penn Township. 2022: There will be a new slate of implementation to follow adoption of the update to the Compressive Plan in December. More detail to come next year.

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1.2B	updated Comprehensive Plan	Solicit municipal projects (action	County Board of Commissioners, PCPC, all interested municipalities, PCCD, PC EMA, etc.	Perry County and Multi-Municipal	2021 and ongoing	Encouraging 100% buy-in from municipal governing bodies to adopt the county plan for their own use. Local control/ increased enforcement may be a barrier.	Current County Comprehensive Plan; Municipal Comprehensive Plans; 2020 US Census figures; community surveys	Potentially supplemente d by PA DCED through a	-	\$150,000 for updated comprehensive plan	2024: Conducted 1st annual plan amendment process and continue to receive adoption resolutions and continue to get eight remaining municipalities to pass resolutions adopting the plan. 2023: Continue working to get the eight remaining municipalities to pass resolutions adopting the plan. 2022: Adoption of updated Comprehensive Plan will be by the end of the year. Next steps will be determined in 2023.
1.2C	Source Water Protection Plans	Help ensure the groundwater and surface water resources of the county are protected from overuse or degradation. Work with municipal authorities to educate on benefit of Source Water Protection Plan – work with DEP on development of Plans where needed. Installation of cautionary signage	Council, New Bloomfield Water Authority, Blain Borough, Millerstown Borough, Newport Borough?, Liverpool	Borough Blain Borough	Ongoing	Overcoming lost farm revenue where BMPs take up crop land and pastureland. Educating local farmers on the municipal well recharging areas. The ability to provide real value in exchange for anticipated land production loss in areas where manure application should be reduced.	Coordination of meetings and continued education.	Bloomfield Borough	1 – FTE Clean Water Coordinator for Planning Commission Manure application offset expenses to reduce manure application to certain well influencing areas.	\$ TBD for new Source Water Protection Plans	2024: HRG is looking into Municipal Source Water areas for potential projects to promote higher water quality in these areas for future project implementation. 2023: Attended an annual review meeting for the Bloomfield Borough Source Water Protection Plan. 2022: HRG and Perry County explored options with PA DEP to develop SWPP's. PADEP mentioned they are available to assist with new plan development, but no further progress to date. Work to identify potential municipalities in the fall.
1.2D	to establish riparian buffers to stabilize stream banks	buffer opportunities – 41 forested		Prioritize public land: Lynn Sheaffer Dum Memorial Park, Millerstown Park, Wagner Park, Alta Nage Park, Little Buffalo State Park, Marysville Lions Club	5-10 years	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, along with volunteers to establish the buffer.		Portion of County Planning Budget	1 – FTE Clean Water Coordinator for Planning Commission 1 – FTE Clean Water Coordinator for Conservation District	Expand Buffer Bonus Program to provide \$10,000 per acre of buffer installed to include 5-year maintenance contract \$410,000 total	2024: No current projects identified in Baken Creek watershed. Shifting focus to other impaired watersheds in the county. 2023: Baken Creek remains a target area with interested landowners and will be revisited this fall. 2022: PCCD's Watershed specialist is focused on 15 square miles for buffer restoration and protection work in the Montour and Baken Creek watersheds. A Baken Creek Outreach event was held in October of 2022 where 29 landowners attended. Of the 29, 14 are interested in planting buffers. Additionally, PCCD's intern used aerials to identify current buffered areas and incorporated into GIS. PCCD will use this data to identify gaps in buffer coverage which will lead to targeted outreach. Through PCCD's partnership with Keystone 10 Million

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1.3	Plan – prepare an updated Act 537 Plan	One-time adoption of ordinance with enforcement, inspection, and tank pumping. Prepare grants, develop basic studies component, develop the action plan	Interested municipalities, Board of Commissioners, PCPC	Municipalities Howe – Township recently introduced pumping schedule	2023: 1 st year is plan development 2024: 2nd year is implementation	Landowner education will be needed to promote proper on-lot septic system maintenance. Encouraging 100% buy-in from municipal governing bodies to adopt the county plan for their own use. Funding limitations and	figures, Pumping Schedules	Potentially supplemente d by PA DCED through a	municipal sewage facilities	\$125,000	 2024: The Community Facilities and Utilities Workgroup has been established and has met three times. 2023: Staff is currently working to establish a Community Facilities and Utilities Workgroup to cover implementation of this particular section of the PICTURE PERRY comprehensive plan.: 2022: No progress to date.
1.4	Mitigation Plan	Improve flood prone areas with BMPs that also enhance water quality Encourage municipal officials to enact stormwater management ordinances consistent with Act167 and Act102 Maintain current capital improvement list – update on annual basis	County Planning Commission, municipalities, Perry County EMA (Floodplain Administrator)	29 of 30 Municipalities, only exclusion is Landisburg Borough (no floodplain is mapped)	2023 - 2025	Funding, land for BMPs, site constraints for enlarging culverts/raising bridges. Enforcement and compliance of stormwater ordinances.	Existing digital floodplain mapping	None/Not applicable	1 – FTE Clean Water Coordinator for Planning Commission Additional detailed flood mapping where there are no immediately available base flood elevations established	\$130,000 per year \$100,000 \$186,000 project implementation, obligated 10% of the	2024: The County is currently working with its consultant to update the Hazard Mitigation Plan. 2023: Third review of the annual update is in August of 2023. Consultant selected to undertake the next Hazard Mitigation Plan update. 2022: Second review of the annual update is in August of 2022.
1.5	Act 167 Plan Development	water quality Phase 2: Prepare Grants and Plan Preparation	municipalities, Board of Commissioners, multi partner needs	Countywide	2021 - 2025	Should local involvement exist, additional responsibility for enforcement. Find funding to develop a Countywide Act 167 Plan. Lack of DEP funding for plan update.	Institutional knowledge		1 – FTE Clean Water Coordinator for Planning Commission Consultant	\$150,000	2024- No Update. 2023: Held virtual meeting with PADEP Act 167 staff to discuss how Perry County Could move forward and be recognized having an Act 167 Plan. In the absence of sufficient state funding for this approach, staff may need to shift its direction to more of a hybrid model of a countywide stormwater management plan. The Perry County Board of Commissioners will have to determine the direction from a list of options.
1.6*	Farmland Preservation Program with farmland preservation program incentives enhancement	Total farmland preservation (69 farms in program currently – approx. 9844 acres) 4 additional farms will be added by 2022 totaling 10,500 acres Look to fund 1-2 additional farms per year in preservation program. – 10,700 acres of farmland conservation	Lancaster Farmland Trust and Perry County Farmland Preservation Board, NRCS, Perry County Greenways, Parks, Recreation and Open Space Plan	Ag land use areas that fit farmland preservation criteria	2021-2022 – explore incentive opportunities	Time/technical assistance to coordinate preservation plans with funding and technical assistance Preserved farms are required to have an NRCS Conservation Plan, work with farmers to ensure Conservation Plan is reported in PracticeKeeper. Recommend making this a program requirement statewide.	Priority recommendations, easement revision recommendations, supplemental BMP funding research		Farmland Preservation Staff Administrator 1 – FTE Clean Water Coordinator for Conservation District	\$130,000 per year \$130,000 per year \$250,000 per farm funded, total of 8 farms à \$2M	2024- No farms closed in 2024. 6 farms in the pipeline totaling over 700 acres. 2023: 1 farm preserved in 2023 totaling 160.32 acres. 4 properties are in the pipeline for preservation in 2024. 2022: Continuing to preserve farms using RCPP and ACEP funds. 10,000 acres have been preserved to date. A connection between NRCS planning and farmland preservation would assist us with advancing our preservation strategy which includes pairing state

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1.7*	assist the Agricultural community & conduct one on one farm outreach visits	Approximately 100 farms have their plans (Conservation/ Ag E&S and/or nutrient/manure management plans) in Perry County, goal is to complete 200 by 2025. Work with private ag consultants to document plan reporting. Implementation challenges (continued): In order to communicate effectively with the farming community one on one farmer outreach must be conducted. The most effective way to capture and report BMPs is through one-on-one farm visits. Farmers do not participate in surveys or other methods.	operators, preserved farms, Organic Farmers, Integrators	Countywide	2021-2025	Limited compliance activities by DEP. Lack of Technical assistance to support the farming community. Private sector Ag plans are not required to be shared with District staff. All counties will work with Act 38, Preserved farms and organic farms to report Ag E&S and NRCS Conservation Plans. These operations are required to have them, but no requirement to report the plans. It is recommended state agencies make changes to Act 38 and farmland preservation programs to require	Field verification, troubleshooting Site visits and plan review Inspections – 50 per year, 1 hour per plan for data entry, 3 hours per inspection (some operations much longer)		3 – FTE Inspector	\$780,000 per year \$420,000 per year \$315,000 per year \$130,000 per year \$75,000 per year	2024: The Foundation for Pennsylvania Watersheds finalized their Growing Greener grant agreement and set up contracts with HRG, Lancaster Farmland Trust, and Clearwater Conservancy for outreach and technical assistance. Work orders for ag I&Es, permits, and full designs are underway for the regional service area. 2023: FPW was awarded a Growing Greener grant for \$800,000 that will support 12 counties, including Perry, with farm outreach, planning, permitting, and project design. Outreach is planned to begin in the fall. 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. In 2022 the Lancaster Farmland Trust will complete an additional 10 farm visits. Agriculture Conservation Assistance Program (ACAP) was announced in the Pennsylvania State Budget in
1.8	Plan Identify a rapid delisting watershed as	WPC applied for DCNR C2P2 grant to update the Juniata River Watershed Management Plan. CAP can help leverage funding for the Juniata River Watershed Management Plan. Work with the Chesapeake Conservancy to rapidly delist a watershed within the Juniata River Watershed Plan.	Conservancy, Chesapeake Conservancy		· ·	Performance Target Continued: Our goal is basically to update the existing plan with work that has been done since the original plan, do some more in-depth GIS analysis, and get public and municipal input into what they see are the issues in the watershed. I think the GIS analysis will be a big part of the process. We're planning on using the new 1-meter resolution data set, incorporating some of the buffer gap analysis work from Chesapeake Conservancy, etc.			1 – FTE Clean Water Coordinator for Planning Commission 1 – FTE Clean Water Coordinator for Conservation District	\$130,000 per year WPC applied for \$37,785 with \$37,286 match Rapid Delisting Approach Project and	2024: The draft of Juniata Forward: Building on 25 Years of Conservation, an update to the Juniata Watershed Management Plan, is complete and will be available for public comment starting October 1, 2024 and lasting for 30 days. Each municipality will be emailed with a link to the plan to provide comments. WPC will also put out a press release and social media posts to garner comments. Comments will be detailed in the final version of the plan. The final plan will be completed by the end of 2024. 2023: Update from WPC: Developed a public survey to garner input from constituents in the watershed. So far, 67 people have filled out the survey. Survey was advertised on social media by WPC and all members of the steering committee. A flyer was made with a QR code for advertising. WTAJ also featured a snippet on television and their website advertising the public meeting and the survey. A few signs featuring the QR code were developed and set up at Nature Works Park and the Blair County Conservation District. Developed a municipal survey to get specific input from municipal officials. 35 municipalities have participated.

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#			Party(ies) and Partnerships	Location		Challenges or Recommendations	Technical	Financial	Technical	Financial	Annual Progress to Date (2021 to 2024)
1.9A	communication plan, leveraging existing documents and covering topics including Comprehensive	Develop messages and audience; execute plan and distribute messaging through staff and partners Utilize the DPJM County Countywide Action Plan (arcgis.com) - ArcGIS website as a source of consistent communication	CBF, Chesapeake Conservancy, NRCS, PCCD, TCRPC, Private Sector Agriculture Farm Visits, municipalities, Farm Bureau	Countywide	2022 – 2025	Simplifying the resources that are available, targeting Perry County farmers and other landowners. Sharing staff resources across the 4-county region.	ArcGIS Hub Website 1 – lead county contact		Website development and continued maintenance 1 – FTE Marketing and Outreach Coordinator 1 – FTE Clean Water Coordinator for Planning Commission	\$130,000 per year \$130,000 per year	2024- PCCD continues to incorporate water quality into communications into the County including mailings, social media posts, and outreach events. 2023: PCCD continues to incorporate water quality into communications into the County including mailings, social media posts, and outreach events. 2022: The DPJM Countywide Action Plan website listed in the Performance Targets has been updated to include information about implementation of the Countywide Action Plans. Additionally, a GIS tracking data base has been added to capture the location of potential projects.
1.9B	Communication Strategy	best way to communicate with farmers in addition to reporting practices. Work to develop a plan	PCCD, County Farm Bureau, Integrators, County Farmland Preservation Board, PSU Extension, NRCS, CBF	Countywide	2022-2025	Funding to support the technical assistance required to complete one on one farm outreach Outreach to integrators is a challenge due to the number of integrators and multiple county boundaries they serve. It is recommended DEP/PDA/SCC communicate with integrators on a frequent basis to reduce mixed messages.		PCCD – portion of funding	6 – additional Ag Planners to provide technical assistance and ag planning 1 – FTE Marketing and Outreach Coordinator 1 – FTE Clean Water Coordinator for Conservation District	\$130,000 per year \$130,000 per year See 1.9A for website costs. Costs for meeting attendance and administration would be covered through other funding requests.	2024- PCCD has a manned booth at the Perry County Fair to provide outreach to the public. A stand is also set up at local farmers/community events such as corn day. Newsletters are also sent out twice a year. LFT will be continued to be utilized with 15 visits planned for Fall of 2024 to propose BMPs on operations and gather information to write Inventory and Evaluations (I&Es). 2023: Will continue to utilize LFT with 25 visits planned, as well as the FPW Growing Greener grant outreach. 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 10 visits are scoped. The Foundation for Pennsylvania Watersheds submitted a Growing Greener grant titled 12-County Investment to Catalyze Agricultural Project Readiness that would support rapid scaling up of farm visits within Perry County. Scaling up of farm visits would allow for additional outreach to occur.

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Priori	ty Initiative 2	: Reporting and Tracking									
2.1*	Existing BMP cataloguing (quantity and location) for select BMPs, expanding on general recommendati	Expand use of existing buffer layer with urban hydrology layer R&D into distinguishing ag, pasture, and turf covers from grassed buffers Manual digitizing where leaf-off <1 ft resolution imagery is available Back check with staff field views, where required Add data to Practice Keeper or another batch upload option (FieldDoc)	Students who live locally but attend nearby Universities, Chesapeake Conservancy, Stakeholder peer	Countywide	2022 – cataloguing 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 reporting catchup approach while we continue to provide support to farmers on planning and BMP installs, reduce the amount of interruption of government entities to compliant farm operations	BMP field backcheck	N/A	processing/method refinement	\$46,000 (2022 only) \$50,000 per year \$780,000 per year	2024- No progress to date. When the current planned GIS software update is completed the district has plans to integrate BMP verification into staff roles and capacity. 2023: No progress to date, but with new District staff being hired throughout the year, the District will be exploring ways to integrate BMP verification into staff roles and capacity. 2022: In December of 2021, Perry County was awarded \$30,000 to conduct Phase 1 of a multiphased BMP verification remote sensing effort. Perry County elected to use a portion of the money for a remote sensing analysis focusing on five priority BMPs including: Barnyard Runoff Controls, Animal Waste Management Systems, Forest Buffers, Grassed Waterways, and Streambank Exclusion Fencing. 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
2.2*	wetlands, fencing	BMP opportunity analysis – ag conservation, land retirement, alternative crop, forest conservation, stream restoration Back check with staff field views Batch upload to FieldDoc to calculate credit opportunity	Lead - Chesapeake Conservancy Stakeholder peer review – Harrisburg/ SHIP/PSU/Etc. University, USGS, Farm Bureau, PDA, Marysville Borough, Municipal Engineers, PCPC	Marysville Borough Countywide where feasible	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		processing/method refinement	\$46,000 (2022 only) \$50,000 per year	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 2024: No progress to date. 2023: As a part of the Chesapeake Conservancy's Cooperative Agreement with the Chesapeake Bay Program, the CIC has been working to adapt the USDA Agricultural Conservation Planning Framework (ACPF) toolbox and produce its related GIS conservation practice opportunity outputs for the entire watershed. The toolbox outputs a suite of NRCS agricultural practice opportunities at the field scale some have direct equivalents to Bay Program BMPs, while others do not. Since there are many assumptions made to produce these opportunity footprints across the entire watershed, they are not intended to be ground truth and should only serve as a high level reference for helping to plan efforts in combination with expert on-the-ground input. The outputs are expected to be publicly available after June 2024. 2022: No progress to date.

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			Partnerships			Recommendations	Technical	Financial	Technical	Financial	Annual Progress to Date (2021 to 2024)
	·	Add development related BMPs to PK/FieldDoc so that as land use	Municipal engineers, Chesapeake	Urban/suburban landscape	2022	Currently municipalities are not collecting BMP data	Reporting platform	N/A	Training	N/A	2024: No progress to date.
	·	data sets are updated, there are accompanying BMPs	Conservancy, PCPC, Municipalities	·		because it is not required in non-Municipal Separate			5 – Student Internships to	\$50,000 per year	2023: No progress to date.
	urban structural and	, , , , , , , , , , , , , , , , , , ,				Storm Sewer System (MS4) communities. Must			Support CAP Implementation		2022: The Foundation for Pennsylvania Watersheds applied for a NFWF Most Effective Basins grant in
	non-structural practices					incentivize communities to report, no existing system			1 – Municipal	\$130,000 per year	April of 2022 to support Phase 2 of BMP verification remote sensing analysis. Phase 2 will include
						in place.			Planner		analyzing wet ponds and detention basins in urban areas across Perry County. PA DEP has updated FieldDoc to allow for additional reporting of urban
2.4*	lacalous out o	Company fortilizar lanislation	DCI I Estancian	Countynuido	TDD		TDD boood on foutiling	TDD based as	1 FTE Class Water	¢120,000 manuaga	practices.
		Support fertilizer legislation – where legislation requires-	PSU Extension	Countywide	TBD	Education of responsible parties, receiving timely	TBD based on fertilizer legislation if passed	fertilizer	1 – FTE Clean Water Coordinator for	\$130,000 per year	2022: On July 11, Governor Wolf signed SB 251, a bipartisan bill sponsored by Senator Gene Yaw (R)
		reporting, be the data				information, training on	legisiation ii passeu	legislation if	Planning		and Senator Carolyn Comitta (D), into law.
		clearinghouse				reporting system, will need		passed	Commission	Urban Nutrient	Pennsylvania now has a law governing turfgrass
	and-					direction from State on		p alocca.		Management \$10 per	fertilizer application dates, practices, rates, and type
	homeowner	Legislation will support the				what's expected and any				acre> \$12,000	of fertilizer used. We are uncertain on how-
		implementation of Urban Nutrient				reporting system that's				, ,	documentation and crediting will occur with the nev
		Management – 1,200 acres				developed.					bill.
	developed	,				'					
	lands										
2.5*	Improve	Enter agriculture plans into	DEP, PCCD, NRCS,	Countywide	2022-2025	Private sector ag planners	Technical Support to		5 – Summer interns	\$50,000 – paid	2024: PCCD utilized the Capital RC&D to verify their
		PracticeKeeper	PDA, NRCS, Perry	ŕ		do not have access to	enter plans into PK		for reporting and	' '	2022-2023 Cover Crop Program.
	BMP reporting	·	County Farm Bureau,			PracticeKeeper. County Ag	·		verification	·	, j
	-	Work with Capital RC&D to	Capital RC&D,			planners do not have time				See 3.5 for funding	2023: PCCD utilized the Capital RC&D to verify their
	PracticeKeeper,	improve current transect survey	Chesapeake			to report private sector					2022-2023 Cover Crop Program.
	Capital RC&D	routes to be more inclusive	Conservancy, PSU			plans into PK.				cover crop reporting	
	Transect		Survey, Manure							for capital RC&D	2022: In the Spring of 2022 HRG participated in a
	Survey, PSU	Work with PSU to produce better	Brokers			Current Capital RC&D					beta testing group for the PracticeKeeper 3rd Party
	Survey, Manure	response rate to the PSU survey				routes are not all inclusive					Module. PADEP initially released the module in June
		for Perry County				and could be improved.					of 2022 before recalling the system for additional bu
	Reporting and										fixes. Phase 2 of the BMP verification grant submitte
		Work with PDA/DEP to improve				Current response rates are					by the Foundation for PA Watersheds includes
	Sensing	manure transport reporting				low and miss a large					budget for interns from Susquehanna University to
						demographic of Perry					enter BMPs into PracticeKeeper.
						County farmers.					
2.6*	Ensure	Work with Water, Sewer and	Marysville Borough	CSO and Waste	2022-2025	Need DEP to work with	Municipal Engineer		1 – FTE Clean Water	\$130,000 per vear	2024: The Community Facilities and Utilities
		Waste Treatment facilities to	just applied for	Treatment	2022 2023	waste facilities to	iviameipai Engineei		Coordinator for	7130,000 per year	Workgroup has been established and has met three
		accurately document plant	reduced rates.	Facilities		accurately document plant			Planning		times.
		upgrades to capture nutrient		25		upgrades. Need reductions			Commission		
		reductions.	Newport is doing			to be accurately captured					2023: Staff is currently working to establish a
	Wastewater		storm sewer			in CAST.			1 – FTE Clean Water		Community Facilities and Utilities Workgroup to
	Treatment		separations						Coordinator for	\$130,000 per year	cover implementation of this particular section of th
	Plant nutrient					Work with DEP to			Conservation	. ,	PICTURE PERRY comprehensive plan.
	loading and		Suez (private			determine how composting			District		
	plant upgrades		sewer/water utility)			helps to reduce nitrogen				\$TBD Infrastructure	2022: This fall, collect upgraded facilities data and
						and phosphorus.				Funding	coordinate with PADEP to ensure reductions are
						Accurately document					being credited in CAST. Utilize the monthly meeting

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			Partnerships	20000011		Recommendations	Technical	Financial	Technical	Financial	Annual Progress to Date (2021 to 2024)
3.1	of watershed plan for Baken Creek	Partner to include CAP Goals into the development of the watershed plan. Mimic the Chesapeake Conservancy Rapid Delisting approach for this watershed Add 2 instream monitors logging real time data (streamflow, turbidity, nitrate)	PCCD	Baken Creek Watershed	2021-2022 (plan developed) 2022-2031 (implementation begins)	Lack of technical assistance and funding to support with BMP implementation.	Engineering Tech	\$10,000 in stream monitoring	1 – FTE Clean Water Coordinator for Conservation District	\$1,000,000 for implementation of Baken Creek Plan	2024- Despite outreach to landowners no projects have been identified in Baken Creek. Focus is being shifted to other impaired watersheds. 2023: PCCD continues to advance the ARP. Two outreach events have occurred in Baken Creek and a live stake program has been created in 2023 targeting the watershed. PCCD will investigate 319 for project implementation in the watershed. 2022: ARP has been completed. PCCD plans to apply for 319 funding in 2023 to aid implementation.
3.2*	and operators to be in compliance with state and federal requirements: Ag Compliance and Nutrient Management Plans	Conservation Plans (Ag E&S) 13,300 36,000 acres Nutrient Management & Manure Management Plans 19,300 acres of Core N and 15,300 acres of Core P		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 and Preserved Farms not required to enter plans in PK, recommended to require programs to enter plans into PK. State agencies must work with integrators to ensure they are requiring			6 – additional Ag Planners to work with farmers to develop required plans	\$15 per acre for a total cost of \$199,500 \$15 per acre for a total cost of \$289,500	2024- Nutrient management technician and District Manager have obtained provisional certification which can be used to provide technical assistance to operators in the County. 2023: Lack of certified planners continues to be an impediment for this goal. PCCD has hired a new District Manager, Watershed Specialist, and Nutrient Management Technician in services of this initiative. 2022: An additional 2,200 acres of Conservation Plans and 1,800 acres of Core Nutrient Management was reported in 2021 compared to 2020 reporting. As part as the Chesapeake Bay Technician Agreement, staff capacity will allow for 20 additional plans for farms on an annual basis.

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"			Partnerships	200000		Recommendations	Technical	Financial	Technical	Financial	Annual Progress to Date (2021 to 2024)
3.3	Nutrient Management (4R) Practice Education and	and nutrient management plans to document and report 4R practices Increase existing 4R practice (N/P)	Perry County Farm Bureau, NRCS, Private Sector Agriculture	Countywide Ag Land	2022-2025	Landowner interest, BMP verification burden (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.	Educational support		6 – additional Ag Planners to work with farmers to meet 4R standards	\$10 per acre of advanced nutrient	2024- PCCD continues to use the supplemental form during annual status review of Act 38 operations. 2023: PCCD continues to use the supplemental form during annual status review of Act 38 operations. 2022: No progress to date.
3.4*	Practice to improve soil health and sustainability (Tillage Management and Cover	county/state cost share program to enhance adoption of the annual practice, pay per acre of cover crop implemented. Implement tillage management and cover crops on an annual rate of 32,500 45,000 acres High	Farm Bureau, NRCS, Private Sector Agriculture Farm Visits, PA Sustainable Agriculture (PASA) All partners need to be on the same page, following the same guidance.	Countywide Ag Land	2022 – investigation 2023 – next steps	Capacity to manage the program, landowner interest Lack of technical assistance and farm planners to work with farmers to transition to High Residue Tillage Current verification methods do not accurately capture implemented amounts – work with Capital RC&D to improve Transect Survey Routes Farmers are harvesting cover crops for forage, need accurate efficiency crediting for commodity cover crops	Transect survey 4 - Existing No-Till farm equipment for Rent		6 – additional Ag Planners to transition farmers to high residue CD District shared No-till Drill County PCCD – staff to administer the program	\$75,000 drill, with maintenance \$90 per acre traditional per year 2 \$1.53M for a 5-year total of \$7.7M (incentive payment, administration) \$50 per acre fall nutrients per year 2 \$600K for 5-year total of \$3M \$50,000	Management. Additionally, PCCD is using the CAP Block Grant to administer a Cover Crop Program. The Cover Crop Program registration closed in July and 3,218 acres of farmland is registered to receive cover crops in the winter of 2022.
						Existing Cover Crop Programs have strict plant					From 2020 to 2021 CAST progress Conservation tillage reduced by 6.800 acres, however High Residue

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			Partnerships			Recommendations	Technical	Financial	Technical	Financial	Annual Progress to Date (2021 to 2024)
3.5	BMPs	Off Stream watering without fencing/pasture alternative watering – 1,800 acres Forest buffers on fenced pasture corridor – 5 acres Grass buffers on fenced pasture corridor – 20 acres Land Retirement to Ag Open Space – 200 1,000 Acres	Chesapeake	Countywide ag lands – landowners who raise horses, dairy, beef, and other pasture grazing animals	2025	Landowner education, BMP funding for non-buffer work, plan updates, data gathering. Lack of Technical assistance to support agriculture planning and implementation. 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 streamside.		Existing funding available	6 – additional Ag Planners to provide technical assistance and ag planning 3 – additional FTE environmental technician	\$390,000 per year \$390,000 per year Prescribed grazing \$540 per acre \$1.62M total Off stream Watering \$500 per acre \$900K total FB Buffer W/ Exclusion \$10,500 per acre \$53,000 total GB Buffer W/ Exclusion \$2,750 per acre \$55,000 total Land Retirement \$500 per acre \$100K total	2024- Perry County Grazing Group, which has existed for four years, has 15-20 members who continue to practice rotational grazing and act as a peer to peer network. 2023: Perry County Grazing Group, which has existed for three years, has 15-20 members who continue to practice rotational grazing and act as a peer to peer network. 2022: Phase 1 of BMP verification identified 145 potential hits for streambank exclusion fencing. This data set will allow for increased reporting of buffered acres with exclusion fencing. Perry County Grazing Group, which has existed for two years, has 15-20 members who practice rotational grazing and act as a peer to peer network.
3.6*	and re- forestation BMPs	400 riparian forest buffer acres, (365) acres lost since 2017 need reverified 500 250 riparian grass buffer acres – (40) acres lost since 2017 need reverified 250 acres – Agriculture Tree Planting 6 acres – urban forest buffer 1 acre – urban tree canopy 1 – acre of urban forest planting	CBF, Chesapeake Conservancy, NRCS, PCCD, Private Sector Agriculture Farm Visits	Countywide	2022 – line up landowners 2023-2025 – implementation	Landowner partnerships, landowner education, volunteer acceptance of	Mapping	Budget available to be determined	6 – additional Ag Planners to provide technical assistance and ag planning 3 – additional FTE environmental technician	\$780,000 per year \$390,000 per year Forest Buffer \$10,000 per acre 2 \$410K Grass Buffer \$2,500 per acre 2 \$1.2M Tree Canopy \$5,000 per acre 2 \$5K Tree/Forest Planting \$10,000 per acre 2 \$2.5M	2024- PCCD has had one property that has interest in live staking and a riparian buffer. 1/4 acre is planned for 2025. 2023: PCCD has created a Live staking Program targeting stream corridors and their riparian buffers in County. 5 acres are planned for 2023. 2022: Phase 1 of BMP verification will identify potential hits for grassed waterways and forest buffers implemented in the past 10 years. These potential BMPs will need field verified but provide a great opportunity to identify BMPs not currently reported. 396 acres of riparian buffers have been verified and entered into PracticeKeeper.

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#			Party(ies) and	Location		Challenges or					
			Partnerships			Recommendations	Technical	Financial	Technical	Financial	Annual Progress to Date (2021 to 2024)
3.7	Wetland	5 50 - acres of Wetland	Chesapeake	Countywide	2022 –2025	Willing landowner;	Landowner outreach		3 – additional FTE	\$390,000 per year	2024: HRG has been utilizing existing maps and
		Restoration	Conservancy, PCCD,			appropriate siting, design,			environmental		outreach to determine potential locations for
	implementatio		NRCS, Private Sector			and construction for			technician		wetland restoration projects. From there HRG plans
	J	30 - Acres of Wetland	Agriculture Farm			successful restoration					to develop a regional grant application for the SRBC
		Enhancement and Rehabilitation	Visits, CBF			result			2 – stream biologist		Consumptive Use Grant.
	land	Identify 1 large property owner				Lack of technical assistance				\$280,000 per year	2023: No progress to date.
		from University of Vermont				for landowner outreach					2023. No progress to date.
		restorable wetland layer to help				and agriculture planning to				Wetland Restoration	2022: No progress to date.
		identify where wetland restoration				identify potential site				\$30,000 per acre 2	20221 No progress to date.
		is feasible				locations				\$1.1M	
3.8	Stream	14,000 5,000 Linear feet (~3 mile)	CBE Chesaneake	Rapid delisting	2022 – 2025	Design/permit/constructio			Lack of funding to	Assume \$900/LF -	2024- A new potential streambank stabilization
	Restoration	Urban Stream Restoration	Conservancy, TU	areas top priority		n cycle seems to work in			cover engineering	\$13M	project has been identified in Centre Township for
	(Urban and		National, PFBC	& Countywide		two-year increments, there			design.		future implementation.
	Agriculture)	6,000 Linear feet Agriculture	Stream Restoration	based on		is an assumption that				Assume \$400/LF -	· ·
		Stream Restoration	Team, PCCD, PCPC	landowner		eroded/degraded streams				\$2.4M	2023: Stream stabilization/habitat on Shultz Creek.
				interest		exist based upon 403(d)					80' of mudsill and riprap to stabilize and create trout
						listing – should that not be					habitat and 20' wing to aid in stabilization. Working
						the case in the field, adjust				\$280,000 per year	with Trout Unlimited for the stabilization project.
						quantitative goal down and					
						ensure buffers are in place.				\$420,000 per year	2022: No progress to date.
						Lack of funding to cover				3420,000 per year	
						engineering design.					
3.9	Implement	60 70 acres of barnyard runoff	PCCD, Chesapeake	Countywide	2022-2025	Landowner buy-in and			6 – additional Ag	\$780,000 per year	2024: 6 animal heavy use area stabilization projects
	more barnyard	•	Conservancy, NRCS,	Farms	2022 2023	project			Planners to provide	y co,ooo per year	were contracted this year.
	runoff		Perry County Farm			development/funding.			technical assistance		, , , , , , , , , , , , , , , , , , , ,
	control/loafing	1 acre of loafing lot management	Bureau			, ,			and ag planning		2023: One project is slated for installation in Fall of
	lot					Lack of Technical assistance					2023 that will incorporate a 4,905 SF HUA.
	management	500 acres of agricultural drainage				to support agriculture			3 – FTE Design,		
		management				planning and			Engineer, Permit	\$420,000 per year	2022: Phase 1 of BMP verification will identify where
						implementation.					barnyard clusters are located and determine if they
									3 – FTE Inspector		are livestock operations or poultry operations. Those
						Lack of funding to cover			construction	\$315,000 per year	operation can be cross referenced with
						engineering design.			Services		PracticeKeeper and other BMP verification data sets to consider outreach to farms without both.
						Increasing construction					to consider outreach to fairns without both.
						costs are cancelling NRCS				Barnyard Runoff	
						contracts.				Control \$175K per	
										project, assume 1	
										acre per project	
										\$6.8M in total	
										A II	
										Agriculture	
										Stormwater Management \$10K	
										nor acro (1) \$ EM	

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			Partnerships			Recommendations	Technical	Financial	Technical	Financial	Annual Progress to Date (2021 to 2024)
3.1	management BMP implementatio n for livestock	31,000 total AUs 1,500 AUs of animal mortality composting management 2,800 new AUs of livestock 1,600 new AUs of poultry	PCCD, SCC, CEG Program, County Farm Bureau	Livestock & 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.		NRCS Cost share is about \$75,000 per acre	3 – FTE Inspector	\$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 \$7.7M in total	2024- There were 4 solid manure storage facilities and 1 liquid manure storage facility contracted this year. 2023: One project is slated for installation in Fall of 2023 that will incorporate a 10' x 68' liquid manure storage. 2022: BMP Verification Phase 1, shows the potential to report an additional 52 animal waste storage facilities currently not reported through PracticeKeeper. Those 52 facilities will need to be field verified.
	Manure Transport out of Perry County	Transport 750 4,000 dry tons per year out of Perry County	PCCD, NRCS, Perry 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	 2024- PCCD continues to use the new tracking methods developed last year 2023: PCCD is utilizing new tracking methods to track nutrient balance sheets. 2022: Manure transport documentation still remains an issue. Look to state agencies for support working with manure haulers and brokers to collect data.
	Chesapeake Bay Pollutant Reduction Plan Implementatio n	·	Marysville Borough PCPC, Tri County Regional Planning Commission	Marysville Borough	2022-2023	Municipal capacity to implement plans (technical, financial). Flexibility to work outside of designated urbanized area.	Municipal engineer design/permit, construction readiness	Unknown	2 – Municipal Engineers 1 – municipal planner	\$280,000 per year \$130,000 per year \$700,000	2024: Contacted Marysville Borough regarding their reporting 8/13/2024 seeking a copy of their reporting to the PADEP. 2023: No progress to date. 2022: Borough is on track to implement their PRP which will result in the reporting of the performance target BMPs.

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Action	Description	Performance Target(s)	Responsible	Geographic	Expected Timeline	Potential Implementation	n Resources <u>Available</u>		Resources <u>Needed</u>		
#			Party(ies) and Partnerships	Location		Challenges or Recommendations	Technical	Financial	Technical	Financial	Annual Progress to Date (2021 to 2024)
3.13*	Management Non-Regulated Communities	Implement existing ordinances at local municipal level Catalogue existing BMPs that fit into this category and newly built ones Runoff Reduction Performance Standard – 82 200 acres treated Wet Ponds and Wetlands – 100 0 acres treated; 5 acres conserved Impervious surface reduction – 10 acre Advanced grey infrastructure IDDE – 130 acres treated Work with municipalities to document street sweeping activities – Goal TBD	PCPC, PCCD, developing municipalities, Tri County Regional Planning Commission, contracted engineer, water authority	Countywide	Ongoing 2022-2025	Coordination/ training for municipal staff, FieldDoc batch upload opportunity, non-MS4 engagement (what's in it for them?), difficulty obtaining past information (MS4s typically have databases from 2003-present; non-MS4s typically have no database)	Reporting platform		5 Summer interns for reporting and verification 2 – Municipal Engineers 1 – municipal planner	\$280,000 per year \$130,000 per year	2023: Held virtual meeting with PADEP Act 167 staff to discuss how Perry County Could move forward and be recognized having an Act 167 Plan. In the absence of sufficient state funding for this approach, staff may need to shift its direction to more of a hybrid model of a countywide stormwater management plan. The Perry County Board of Commissioners will have to determine the direction from a list of options. 2022: Look to host municipal meeting in 2023 to discuss potential opportunities to implement local ordinances for stormwater management. Future BMP verification funding will be allocated towards urban stormwater BMP cataloguing.
3.14	Landscaping/Tu rf to Meadow Conversion	Promote new program and enable one large tract landowners' participation 80 10 acres of Conservation Landscaping	TCRPC, PCCD, Municipalities, Chesapeake Conservancy, CBF, DCNR, Western Pennsylvania Conservancy	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		1 – FTE Municipal Planner 3 – additional FTE environmental technician	\$130,000 per year	2024- PCCD has a goal of 5 acres of conservation landscaping for 2025 with a focus at implementing at schools and other large properties. 2023: No progress to date. 2022: No progress to date.

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Action	Description	Performance Target(s)	Responsible Party(ies) and	Geographic Location			<u>ailable</u>	Resource	es <u>Needed</u>		
#			Party(les) and Partnerships	Location		Recommendations	Technical	Financial	Technical	Financial	Annual Progress to Date (2021 to 2024)
3.15*	and gravel road program	19 miles 50,000 LF (9.5 miles) overall restored through past projects and future projects Continue to implement the program annually	PCCD	Countywide		Continue D&G Road program funding Expand Dirt and Gravel Road Program to include farm and residential lanes	Education, technical assistance, project oversight	\$2.4 Million since 1998	District	Dirt and Gravel Roads \$40 per foo> TBD	2024: One of the project this year was in Jackson Township on Conococheague Rd. This project replaced an old crosspipe, added 4 additional crosspipes and an underdrain. The second project located in Centre Township on Boose Rd included raising the road 3' and installing 19 crosspipes. Between the two project 7850 feet of road was restored. 2023: Juniata Twp: Homestead Rd. Stream Crossing project- 8' arch pipe was installed. Replaced a 2' round metal pipe for a stream with bank full width 7.4'. Jackson Twp: Mount Pleasant Rd. DSA placement on 2890 feet of road. Removed and replaced 3 cross pipes and added 2 more (15" pipe) to help with drainage. 2022: Current projects are on track. The low volume road portion of the program has new requirements for stream crossing requiring stronger engineering vetting which may prove to be too expensive for townships moving forward. Our QAB Recommended and our Board approved pausing stream crossing projects through December 2024.
3.16*	PennDOT and local municipalities to reduce frequency of mowing/spraying road ditches and	'	Local Municipalities, DEP and PennDOT	Countywide	2023	PennDOT's and Municipal-willingness to cut back on-mowing programs. DEP-Chesapeake Bay Programwill need to assist in the education of PennDOT.			1 – FTE Clean Water- Coordinator for- Planning- Commission 1 – FTE Clean Water- Coordinator for- Conservation- District		2023: No progress to date. 2022: No progress to date.
3.17	& Grant	Identify some private funding sources that may be able to supplement public funding sources/existing sources utilized for stakeholders, continue to work with partners to facilitate additional funding	Existing project implementer networks	Countywide	2022-2023	Need to expand network, educational aspect of less common funders, logistics of utilizing unproven funding sources (or lesser known).4 Grant administration is a challenge due to limited staff and time-consuming nature of grant reporting and administration.	Financial services		Manager 2 – staff accountants	\$130,000 per year	2024:: No progress to date. 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 Perry County to increase the adoption of Conservation Practices.

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"			Partnerships	Location		Recommendations	Technical	Financial	Technical	Financial	Annual Progress to Date (2021 to 2024)
Prior	Priority Initiative 4: Research, Education, and Training										
	water quality monitoring data into Chesapeake Data Explorer/ Chesapeake Monitoring Cooperative database	by ALLARM and other environmental groups program by end of 2021.	ALLARM, Keystone Water Resources Center, Juniata College, Juniata County Watershed Association, Harrisburg University Conservation District,	Ag impaired streams and Countywide	Ongoing	Data precision, QAQC, opportunity to educate landowners about local stream health and what they can do about it. Currently no groups doing water quality monitoring. Limited USGS monitoring (streamflow only).	Social media shares		Volunteers for Water quality monitoring New monitoring equipment 3 – additional FTE environmental technician 2 – stream biologist	\$125,000 – 25 new monitors \$130,000 per year \$280,000 per year	2024- There is one water quality monitoring location at the Stonehouse Inn along Montour Creek with interest in placing a second site on the same property. 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:
4.2	watershed associations for short-term success and long-term	existing watershed associations to support with CAP implementation. Watershed organizations can support with outreach, engagement, new project identification and implementation.	Tri-County Regional	·	Oligoling	leaders to establish and run watershed organizations to be successful and support with implementation.	Project development support		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> \$5,000 per year	2023: No progress to date. 2022: No progress to date.