		Phase	e 3 Watershed Imp	olementatio	n Plan (WIP) Annual Progress Upda	te and Two-	Year Miles	tones Repo	t – Lackawa	anna County	
Green - act	ion has been completed or is m	oving forward as planned Y	'ellow - action has encoun	tered minor obst	acles Red - act	tion has not been taken or has enc	ountered a serio	us barrier	Highlight change	es for 2024-2025	milestone period	
							Possers	s Available	Possessi	s Needed		
Action # Green Yellow Red	Description	Performance Target(s)	Responsible Party(is) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Technical	Financial	Technical	Financial	Annual Progress to Date (2021 + 2022+2023) *add new 2023 progress above the existing 2021 and 2022 progress. Date each entry	Reason for Change to Action Item (2024-2025 milestone period)
Priority	Initiative 1: Agricultur Implement Nutrient		PSU Extension,	C	2022 creation	r	li and annua	EQIP	Ic	Dadissa d	2023 - Nutrient management and soil sampling have	ı
£.3	implement Nutrient Management Analysis Program to Agricultural Landowners	Assist producers in obtaining nutrient management planning (including soil samples, manure analysis, and agronomy assistance). BMP's will include Nutrient Core P, Rate, Placement, and Timing. 25 Sites per year	PSU Extension, LCCD, Consultant	County Agricultural properties	2022 Creation of program with evaluation in 2025	Funding for program creation, Producer Participation, and understanding of importance	Local agency educational materials and sampling kits Consultant assistance	EUP	Contracted Source for NMP analysis/recommendations List of recommended contacts for analysis completion	Dedicated funding to assist in this program \$15 per soil sample kit \$40 per manure testing kit \$60,000 per year	2023 - Nutrient intallegement and soil sanghing new or updated MMP's and CNMP's. 100 soil test this have been purchased to continue to provide this resource to landowners. Over 10 operations have been worked with to develop nutrient management plans, conservation plans, and Engineering I&E's. 2022 - Nutrient management analysis has been offered through the district to provide 50+ soil sampling list and manure analysis assistance. Designated funded is required to increase soil sampling and manure testing availability to more landowners each year and expand the existing program.	
1.2*	Reporting and Verification of Existing BMPs	Collect data using landowner reporting forms and verify existing BMPs on agricultural operations. Report and verify 50 operations per year	DEP, LCCD, NRCS	County Agricultural properties	2021-2025	Time Capacity, Data Entry, Release of Records, producer participation and resistance	Existing BMPs funded through Government programs are already known	Agency verification	Dedicated staff or contracted staff to complete entry and inspections		2023 - BMP verification and reporting was completed this year and verified over 300 BMP sites for resource improvement practices. Farm operation BMP implementations are currently being verified and reported throughout the county by the qualified individuals to receive nutrient reduction credits. 2022- BMP verification and reporting is being completed through BMP verification funding and is on schedule. \$30,000.00 Grant funding through the Bay Office is being utilized to support the BMP Verification effort through the Conservation District and LDG. DG is identifying BMPs on Aerial imagery and BMP verification is occurring through LCCD.	
1.3*	Existing BMP Maintenance Program	Assist producers with maintenance of existing BMPs to keep them functioning, through education and funding resources.	LCCD, NRCS, PSU Extension	County Agricultural communities targeting impaired watersheds	2022-2025	Lack of existing funds for maintenance, farmer resistance to project completion	Design, inspection, support, specifications and details	Private funds	Design, permitting, engineering, and construction Prioritization of BMPs in need of maintenance	Funds to complete maintenance maintenance design, permitting, and construction \$250,000 per year	2023 - The BMP maintenance program implemented various projects this year such as stream crossings and roofs for manure structures. Additional projects are approved for funding this year including stream exclusion fencing, rotational grazing, watering systems, roof runoff systems, spring development, and stabilized animal walkways. 2022- BMP maintenance and upgrades are being addressed when presented to keep them functioning at a high level. A program to evaluate BMP maintenance projects and expand available project upgrades is under planning.	

1.4	Farmland Preservation	Assist in the preservation and conservation of Farmland. Maintain 250 preserved acres per year, and additional funding to preserve 200 additional acres per year	LCCD, Farmland Preservation Board	County farmlands	2021-2025	Financial assistance and participation in preservation	Reviews and applications of existing preservation sites	Final application and site payments	Educational materials on farmland preservation importance	Funding for farmland preservation costs \$500,000 per year	2023 - Farmland preservation is ongoing throughout the county with the funding available. Lackawanna CCD has secured an additional \$25,000/yr. from the county to purchase easements. These funds plan to be leveraged to increase state matching grant funds. 2021-2022 program applications for Farmland Preservation were received and are in process. 4 parcels are totaling "208 acres (pending final surveys) are being purchased using existing State/County funds. Additional program funding has been secured through a cooperative agreement with the NRCS Agricultural Conservation Easement Program—Agricultural Land Easements (ACEP-ALE) to allow for the purchase of additional acreage. 3 farms have been approved through ACEP-ALE totaling 248.91 acres in Lackawanna Country.
1.5	Manure to Mine lands Program	Utilize excess manure to treat abandoned mine lands to improve available nutrients for vegetative cover.	EPCAMR, LCCD; NRCS, Earth Conservancy, DEP, BAMR	County agricultural lands and AML areas	2022-2025	Farmer and Landowner Participation, extensive coordination effort, BAMn's modification of existing reclamation practices, Availability of excess manure	Historic programs	N/A	Feasibility study, Develop/ coordinate program	Funding to complete a study to identify program utilization. \$50,000 for feasibility study \$250,000 per year if program is determined as feasible	2023 - This project is still under discussion now that the BAMR funding has been released. 2022- This program is still important and is looking for a dedicated funding source to complete this initiative. It is planned to utilize BAMR, OMR, or infrastructure bill funds to help secure this program.
1.6	Crop Management	Promote crop management by increasing no-till and cover cropping through education and outreach. Increase existing Crop management by 250 acres a year	LCCD, NRCS, SCC, Farm Bureau, PSU Extension	Agricultural community	2021 ongoing	Participation and eagerness to change existing practices.	Educational materials, planting recommendati ons	Funds for crop management	Agricultural planning, education and outreach	Funding for seed and implementation n SS0,000 per year	2023 - The no-till planter was highly utilized this year and was increased due to the access of more rental equipment by the residents. 2022- A no-till corn planter was purchased and supplied for rental this year to increase no-till implementation. A no-till reimbursement rental program was also employed to boost participation. 375-8 acres of no-till planting was implemented this year with the conservation district equipment.
2.1	Initiative 2: Urban and MS4 Community Partnership Projects	Partner with MS4 Communities to assist with sediment and nutrient removal projects.	LCCD, County Planning	MS4 Communities		development of partnership.	Program Guidance, project design	Cost of implementatio ns	possible cooperative efforts for project implementatio n and enhancement	n of projects \$20,000 per year for staff (1/4 FTE) \$150,000 per year	2023 - MS4 community partnerships are still under development to identify projects and possible nutrient removal sites. 2022- MS4 community partnerships are under development to identify projects to work together and improve nutrient removal processes.
2.1a*	Collecting existing and planned PRPs from MS4 Permitees	Meet with MS4s within Lackawanna to collect existing and planned PRP's to quantify data.	Municipalities, LCCD, PennDOT	MS4 Communities	2021-ongoing	Staffing to collect and report existing pollution reduction plans.	Knowledge of existing MS4 permits	N/A	Dedicated staff to compile existing data and complete outreach to MS4 permitees, and data entry.	sustainable funding source for district staff position	2023 - This action item is still being discussed for the collection and sharing of this data. 2022 - This initiative is under development and is working through the collection of existing PRP's. There is potential to verify and collect this data through BMP verification methods.

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2.2*	Existing Stormwater BMP	Upgrade and maintain	Municipalities, LCCD,	Existing sites	2022-2025	Funding; identifying suitable	Example	Municipal/aut	Site data	Dedicated and		
	retrofit and maintenance	existing basins and drainage	School Districts,	within the	1	facilities	projects,	hority funds	collection;	sustainable	stormwater BMPs that need assistance although a	
	Program	systems to improve function.	Landowners	County Recreational			Guidance documents,		Design development,	funding source for staff	program has not been developed to address these projects.	
		Turiction.		and Industrial			development		landowner		2022- Existing stormwater BMP retrofit, and	
				Properties,			of planting		outreach, and	implementatio		
		5 projects per year		Landfill	1		specs,	1	permitting	n funds	find existing sites in need and potential owners	
							landowner			1	interested in participating.	
							project		1	\$20,000 per		
							coordination		1	year for staff		
									1	(1/4 FTE)		
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2.2a *	Development of Stormwater	Design and Retrofit PCSM on	Municipalities,	Jefferson	2021-2025	Cost of upgrades to existing	Engineering	Funding to	N/A	Funding to	2023 - This project is still of interest although a	
2.20	Design and Retrofit on	older developments with	Engineers,	Township, other	2021 2023	facilities	support,	complete	.,,,	implement	previous project lined up has fallen through due to	
	Municipal owned Subdivision	subdivision basins released		released sites			technical	upgrades	1	upgrades to	the cost and amount of drainage area that would	
	Basins	to municipalities.					documents	.,,	1	existing	actually be treated. More sites are being identified.	
		·							1	stormwater	2022- Retrofit and maintenance projects are under	
		2 projects per year							1	features	planning and proposed construction phases for	
									1	1	completion.	
									1	\$500,000 per	A project is under completion to establish a	
									1	year	stormwater basin within a community that is lacking	
			l	I		1	1			1	stormwater management due to its age to increase	l
			l	I		1	1			1	stormwater retention and flood mitigation within the	
			l	I		1	1			1	area.	
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2.2*	Boodway Stormwator	Implement new RMD guide	LCCD DCNB DCC	County	2021 2025	Follow through an protocol and	Training decign	DMD	Tochnical	Cost	2022 This action item is still a priority and dedicated	
2.3*	Roadway Stormwater	Implement new BMP guide	LCCD, DCNR, PGC,	County	2021-2025	Follow through on protocol and	Training design		Technical	Cost	2023 - This action item is still a priority and dedicated	
2.3*	Roadway Stormwater Management	for Supervisors and	Planning Department,	County Roadways	2021-2025	lack of updates with new	Training design manuals	implementatio	guide and	associated	funding is needed to develop these materials for the	
2.3*		for Supervisors and PennDOT to reduce runoff			2021-2025			implementatio ns on	guide and reference		funding is needed to develop these materials for the county.	
2.3*		for Supervisors and	Planning Department,		2021-2025	lack of updates with new		implementatio	guide and	associated with additional	funding is needed to develop these materials for the	
2.3*		for Supervisors and PennDOT to reduce runoff from roadways and	Planning Department,		2021-2025	lack of updates with new		implementatio ns on	guide and reference material,	associated with additional BMP	funding is needed to develop these materials for the county. 2022- This program is still under discussion and of	
2.3*		for Supervisors and PennDOT to reduce runoff from roadways and minimize nutrient carrying	Planning Department,		2021-2025	lack of updates with new		implementatio ns on	guide and reference material, Additional	associated with additional BMP implementatio	funding is needed to develop these materials for the county. 2022- This program is still under discussion and of high importance.	
2.3*		for Supervisors and PennDOT to reduce runoff from roadways and minimize nutrient carrying	Planning Department,		2021-2025	lack of updates with new		implementatio ns on	guide and reference material, Additional project identification, design,	associated with additional BMP implementatio n and project identification	funding is needed to develop these materials for the county. 2022- This program is still under discussion and of high importance. Dedicated funding is needed to create and develop	
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2.5	Nutrient and Fertilizer Planning for Turf Grass	Develop and implement plans and guidance for application on Turf Grass areas. Host contractor and landscaper workshops. Achieve 200 planned acres per year	LCCD, PSU Extension, NRCS	County Turf Grass Areas	2024+	Reporting and lack of participation. Guidance, regulations	Guidance documents	N/A	Example plans, outreach, Enforcement	Dedicate funds to launch the program and implement BMPs \$200,000 per year	2023 - This project is still of high importance and is being discussed for appropriate funding and timing of implementation. 2022- This program is still of high importance and project locations are being identified and discussed to gain interest and availability for project sites once the program is kicked off.	
2.6	Riparian Buffer and Tree Plantings	Increase Riparian buffers and tree plantings within urban settings. Implement and verify approximately 100 acres a year	Municipalities	County	2022-2025	Landowner cooperation/willingness to enter into long-term agreements (DCNR program), volunteers for planting, limited availability of certain tree species	of planting specs, coordinating projects with landowners, Standard guidance education/outreach materials	Plantings and materials, Existing Grant Programs	Example planting specs, planting specs, planting coordination, project identification	for district staff positions & implementation of buffer projects \$20,000 per year for staff (1/4 FTE) \$120 per tree, warranty, and maintenance \$150,000 per year	2023 - Multiple riparian buffer plantings occurred this year and over 17 acres have been implemented this year. BMP verification of riparian areas is also ongoing. 2022- Multiple riparian buffer and tree planting projects have been implemented and are under planning throughout the county. 7.67 acres of riparian buffer were installed with 1.918 trees and shrubs planted.	
2.7	Mine land Planting and Protection	Promote new growth on mine lands to reduce runoff and protect currently established growth.	EPCAMR, LRCA, Municipalities, County Planning	Disturbed Mine lands	2021-2025	Keeping mine lands vegetated when leaving undeveloped to reduce stormwater runoff.	Existing program to plant and protect mine lands	Plantings and materials	Implementatio n of projects, outreach and education	Cost of project implementatio n \$20,000 per year for staff (1/4 FTE) \$150,000 per year		
Priority		i e	1									
I HOHLY	Initiative 3: Watershed	Health				I						
3.1*	Stream Channel Restoration and Protection	Provide bank protection, instream habitat and riparian buffers on streams in developed areas. 500 linear feet per year, with additional possible based on funding, design and permitting conditions	LCCD, municipalities, Trout Unlimited, Watershed associations	Urban/ developed	2022-2025	Lack of available land for stream restoration, landowner participation	Standard stream design guidance,	Public lands in urban areas (parks, trails, etc.)	Design services for restoration, construction, permitting	construction funding for restoration and protection project implementation \$800,000 per year	for completion. A NFWF Small Watershed Grant was applied to for stream restoration, bank stabilization, and riparian plantings along Roaring Brook within Lackawanna County although was not funded. This project has been applied for funding through 2023 CAP Implementation funds.	
4.2*	Stream Channel Restoration and Protection Stream Bank Stabilization	Provide bank protection, instream habitat and riparian buffers on streams in developed areas. 500 linear feet per year, with additional possible based on funding, design and permitting conditions Protecting stream banks and securing for stabilization. 500 linear feet per year, with additional possible based on funding, design and permitting conditions	Trout Unlimited, Watershed associations LCCD, watershed associations, Trout Unlimited	At risk streams in Environmental Justice areas	2022-2025	restoration, landowner participation Landowner cooperation, volunteers for planting and installation	stream design guidance, Standard guidance, education/ outreach materials	urban areas (parks, trails, etc.) Plantlings and materials	for restoration, construction, permitting Coordinators, outreach for volunteer support Materials and design	construction funding for restoration and protection project implementation n S800,000 per year Funding for coordinator positions, materials, design, and implementation s800,000 per year	have been implemented this year in addition to the restoration of two historical dam locations. 2022- Stream restoration and protection projects have been implemented and planned throughout the year. Additional project locations are being discussed for completion. A NFWF Small Watershed Grant was applied to for stream restoration, bank stabilization, and riparian plantings along Roaring Brook within Lackawanna County although was not funded. This project has been applied for funding through 2023 CAP Implementation funds. 2023- Stream bank stabilization occurred this year in partnership with riparian buffer planting projects to increase stream stabilization within the county. 2022- A NFWF Small Watershed Grant was applied to for stream restoration, bank stabilization, and riparian plantings along Roaring Brook within Lackawanna County although was not funded. This project has been applied for funding through 2023 CAP Implementation funds. Additional project sites have also received stream bank stabilization this year and future projects are being planned.	
3.1*	Stream Channel Restoration and Protection	Provide bank protection, instream habitat and riparian buffers on streams in developed areas. 500 linear feet per year, with additional possible based on funding, design and permitting conditions Protecting stream banks and securing for stabilization. 500 linear feet per year, with additional possible based on funding, design and permitting conditions	Trout Unlimited, Watershed associations LCCD, watershed associations, Trout	developed At risk streams in Environmental	2022-2025	restoration, landowner participation Landowner cooperation, volunteers for planting and	stream design guidance, Standard guidance, education/ outreach materials	urban areas (parks, trails, etc.)	for restoration, construction, permitting Coordinators, outreach for volunteer support Materials and	construction funding for restoration and protection project implementation n S800,000 per year Funding for coordinator positions, materials, design, and implementation \$\$800,000 per \$\$	have been implemented this year in addition to the restoration of two historical dam locations. 2022- Stream restoration and protection projects have been implemented and planned throughout the year. Additional project locations are being discussed for completion. A NFWF Small Watershed Grant was applied to for stream restoration, bank stabilization, and riparian plantings along Roaring Brook within Lackawanna County although was not funded. This project has been applied for funding through 2023 CAP Implementation funds. 2023- Stream bank stabilization occurred this year in partnership with riparian buffer planting projects to increase stream stabilization within the county. 2022- A NFWF Small Watershed Grant was applied to for stream restoration, bank stabilization, and riparian plantings along Roaring Brook within Lackawanna County although was not funded. This project has been applied for funding through 2023 CAP Implementation funds. Additional project sites have also received stream bank stabilization this year and future projects are being planned.	

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4.3a	Mine Pool Water Treatment for Irrigation	Treating mine pool water to remove heavy metals to be used for irrigation on golf courses and other Turf grass areas. This will increase irrigation and reduce nutrient application on these areas. 1 site per year	LCCD, EPCAMR, BAMR, SRBC, Golf Course Superintendents	Pine Hills Golf Course, other Golf Courses and Entities using mine pool water for irrigation	2023+	Existing regulation on water withdraws, high cost treatment facilities	Technical guidance for treatment design and permitting	Funding to complete Design Permitting and Construction of project	Support to alter existing water withdraw permits and complete permitting and design	Costs associated with the project, include design, permitting and construction \$750,000 per project	2023 - The golf course treatment facility is still under planning with multiple site meetings and water testing occurring. This project will be applied for through the BAMR Subgrants awards. 2022- Mine pool water treatment and irrigation are being discussed for site feasibility and planning measures at a specific golf course. This initiative is planned to apply for funding through the BAMR, OSM, and infrastructure bill funds in the upcoming years for completion.	
3.4	Forest Land Conservation and Management	Preserve Quality Forest Land Surrounding Quality Resources through conservation easements, deed restrictions, land conservancies.	LCCD, NRCS, DCNR, Landowners, PGC	Forest lands near quality resources	2022-2025	Funding for conserved lands and landowner participation	Conservation efforts, existing land conservancy programs	Conservation and management	Addition outreach and support	Cost associated with conservation, planning, and management \$150,000 per year	2023 - Lackawanna has been included in the 2023 grant application for the Forestry Education Symposium and this grant was awarded. The first event will be this September with a second occurring next spring. 2022- Forest land conservation efforts have been discussed and excess funding needs allocated to increase these efforts. A Forestry education day has been proposed to increase overlaid forestry management and conservation measures. Lackawanna County was invited to participate in the Forestry Education Symposium EE Grant currently held by Bradford, Susquehanna, and Wyoming County to increase forestry education within the county.	
3.4a	Forestry Harvest ED and Outreach	Educating private forest landowners on the importance of proper harvesting and selecting a qualified timber harvester. 2 programs per year	DCNR, NRCS, LCCD	Private forest landowners	2023	Participation from landowners and interest and technical assistance	Educational materials	N/A	Outreach events, education programs, county specific harvest information	Costs associated with in person events, county specific materials, and outreach. Dedicated Funding for part time staff to coordinate program. ½ FTE, \$40,000 per year.	2023 - Lackawanna has been included in the 2023 grant application for the Forestry Education Symposium and this grant was awarded. The first event will be this September with a second occurring next spring. 2022- A Forestry education day has been proposed to increase overall forestry management and conservation measures. Lackawanna County was invited to participate in the Forestry Education Symposium EE Grant currently held by Bradford, Susquehanna, and Wyoming County to increase forestry education within the county.	