	Phase 3 Watersh	ned Implementation Plan	n (WIP) Progres	s and Miles	tones Templa	ate						
	<u>Green</u> - acti	ion has been completed or is n	noving forward as p	olanned <u>Yell</u>	w - action has e	ncountered minor obs	tacles <u>Red</u> - a	action has not	een taken or has	encountered a	serious barrier	
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		Stormwate	r Action Te	eam			Technical	Financial	Technical	Financial		
Priori	ty Initiative 1: Upda	te Act 167 Integrated	Water Resou	rces Count	y Plan							
1.1	Prioritize Act 167 planning in the County (develop new Act 167 plan that includes updated plan information and modeling for every County watershed. A new plan will provide updated ordinances to support regional runoff and flood management)		County Planning, Municipal., Lancaster County Clean Water Consortium	Countywide	When funding is available	Act 167 work is not currently funded adequately in the general budget at the state level. This could be remedied by funding that line item or dedicating other grant funds. Because the funding went away, we do not have the necessary data*.			Lead org. (Consulting engineer/ planner) to assist LCPC	\$3 million for Lancaster County	2021: County Planning Commission should take lead on this effort. It is important for financial and technical resources to be allocated to the County to update Blue Prints. Alternative is to petition DEP to allow CAP to count toward update and Action Teams as implementation resource. 2020: There is consensus that both an Act 167 plan update is appropriate; and an update should incorporate data, considerations, etc. that reflects water quality information and modeling to better ensure stormwater management and flood mitigation planning and project implementation balances both water quantity and quality. Actions to move this initiative forward are limited by financial considerations.	Changed action description from yellow to red and noted next steps in timeline is directly tied to funding as the absence of dedicated funding results in significant barriers to moving forward.
1.2	Have 167 plan that has pollutants/modeling parameters consistent with CAST (dependent on 1.1)		County planning, Municipalities	Countywide	FY2020-2021	Modeling is not consistent with the CAST model and more accurate baselines are required. New legislation at the state level to provide consistency between Act 167 and CAST model	Local consultants				2021: See Action 1.1 2020: See progress to date on Action 1.1.	

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1.3	Update model ordinance(s) for countywide and/or watershed goals		County Planning, Municipalities, Solicitors, Community Stakeholders	Countywide	FY2022-2023	Develop a robust model municipal stormwater ordinance(s) for Lancaster County that explicitly defines water quality goals, implementation requirements, buffer extents, and supports other initiatives in the County WIP, including green infrastructure, conservation overlays, riparian corridor standards, and restricting development and construction within floodplains and advocate for municipal adoption. Time constraints, no funding, and municipal adoption	Local agencies, local consultants				2021: Intent is to develop model ordinance options under Stormwater Action Team and Lancaster Conservancy partnership. Tie county-wide stormwater ordinance model to Act 167 and/or new MS4 permit requirements. 2020: There is consensus an Act 167 plan update is appropriate, and a subsequent update to the model ordinance is necessary. The engineer's group has convened several times to move this action forward, but there is also consensus to wait until the next MS4 permit draft (2023-2028 cycle) is issued first.	Updated timeline to coincide with the probable model SWMP update as part of the next MS4 cycle.
1.4	Establish greater regionalization of runoff and flood management	Stormwater Performance Stds – Runoff Reduction (10,972 total acres treated/ 6,205 new acres treated) Stormwater Performance Stds – Treatment (462 total acres treated/158 new acres treated)	County Planning, Municipalities	Countywide	On-going On-going	Updated Act 167 and model ordinance(s) would establish basis for watershed-wide implementation of practices to cost-effectively achieve pollutant reduction goals. Localized plans (with conditions outlined in watershed permits or local SWMOs) that usurp Act 167 plans be a more efficient approach* BMP reconciliation during 2022-2023 will be critical	Local agencies, local consultants		Flexibility in regional management of water quality under Act 167	Funding for development of more advanced GIS tools: \$180,000 total to do; and funding for Act 167 Plan and subsequent elements (see Action 1.1) Capital Cost of new BMPs: ~\$208 million (current assumption is ~60% of BMPs	2021: Follow delisting strategy to work on priority watersheds. Identify opportunities for regional projects/permits/joint construction to comply with MS4 requirements and met CAP goals. 2020: Implementation of projects that provide regional and extended community benefits have become more prevalent across the county. Mechanisms to better track or plan for more targeted project locations would be ideal (see Actions 1.1 and 1.2).	Resource limitations restrict focus to de-listing strategy priority locations. Updated action from green to yellow and timeline to reflect activities have and are occurring, albeit minimal to overall desired progress. The status quo is inhibiting factor. Updated performance targets to align known progress with new acres still needed to achieve final targets

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		Stormwate	er Action To	eam		<u>'</u>	Technical	Financial	Technical	Financial		
						to align accounting with on the ground conditions				simply need reported)		
Priori	ty Initiative 2: Updat	te MS4 Performance	Criteria, Over	sight, and	 Implementa	 ation						
2.1	Clarify and broadly publicize flexibility criteria allowing focus on watersheds rather than municipally regulated MS4-UAs (process for watershed-based permits established, understood, and implemented by permittees to allow for greater documentation, recording, verification, and reporting of BMP beyond those located in MS4-UAs)		Lancaster County, municipalities	Countywide Priority Watersheds: Pequea Creek, Cocalico Creek Chiques Creek Others	CY2019-2021	As presented to permittees over the last ten years, DEP and EPA requirements and programs complicate this process and serve as a disincentive. However, recent guidance distributed to municipalities outlines a different methodology. Consistent training and regulation is vital. Generalized process for regional general permits (e.g. watershed-based) would be ideal.*	Technical expertise is present; DEP clarification memo/letter watershed groups			12 plans (1 per watershed) at \$50,000 = \$600,000 minimum needed to do the plans	2021: Develop watershed permit in the Little Conestoga and implement Lititz Run WBP to demonstrate multimunicipal regional project. Take advantage of preapplication permit process with LCCD and DEP to discuss options for joint and/or regional watershed-based permits and plans. 2020: The development and implementation of watershed-based permits and plans is slowly progressing forward (Lititz Run WBP, Chiques Creek Report Card, Pequea WIP) that prioritizes watershed health have been moving along. Financial limitations are the primary hurdle for further efforts across other watersheds.	Significant progress has been made regarding this action, the implementation of a more generalized and standard process would be the next step.
2.2	Create goal line that is both definitive and does not stop at the end of a permit cycle (Establish quantifiable milestones that are consistent with CAST/Bay models, verifiable via consistent reporting templates that are consistent, accessible, and widely accepted)		Lancaster County, municipalities, Lancaster County Clean Water Consortium	Countywide	CY2019-2023	Milestones need to be consistent beyond those under current MS4 permits Action is required by DEP/EPA to make this process less complicated DEP/EPA must provide clear direction with regard to pollutant reduction calculation methodologies, verification protocols, and reporting requirements.	Technical expertise is present			\$20,000 per year is necessary to create and maintain a local report. \$80,000 - \$100,000 per year is necessary to host a point person for stormwater for the county	2021: Formalize metrics based on CAP goals. Work to create consistent reporting and counting of BMPs in CAP. 2020: While there is consensus this is an appropriate action to undertake, it is difficult to establish definitive and broad milestones due to changing technologies, changing requirements, and so on. This action may come to the forefront through the further development of watershedbased documents (see Action 2.1).	Updated timeline to reflect actual progress

		ned Implementation Plan ion has been completed or is mo				encountered minor obs	stacles Red -	action has not b	een taken or has	encountered a	a serious barrier	
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		Stormwater	r Action To	eam			Technical	Financial	Technical	Financial		
2.3	Seek creative solutions to focus on the problem (pollution), not the geography (MS4 and urban areas) – Prioritize projects that include multiple benefits	Bioretention and rain garden – 394 total acres treated/273 new acres treated Bioswales – 1,389 total acres treated Filter strip runoff – 10 total acres treated/10 new acres treated Urban buffers – 256 total acres/144 new acres Impervious surface reduction – 58 total acres treated/58 new acres treated Wet ponds and wetlands – 948 total acres treated/322 new acres treated Stormdrain cleanout – 29,610 lbs. of sediment removed Grey infrastructure – 23,772 acres Street sweeping – 155 acres treated Dry ponds – 396 total acres treated/396 new acres treated Infiltration practices – 693 total acres treated/120 new acres treated Extended dry basins – 7,253 total acres treated/386 new acres treated/	Lancaster County, Municipalities	Countywide, Priority watersheds: Pequea Creek Cocalico Creek Chiques Creek, etc.	FY2021	Current DEP and EPA requirements make it more difficult for municipalities to focus on water quality rather than specific, inefficient program requirements. MS4 permits shifting from TSS to TN reductions. —this will take new dollars and expertise from the municipalities and engineers. Process established for meeting water quality goals outside of regulated geography and in a cost- efficient manner PennDOT/turnpike coordination and collaboration (including legislator support to help facilitate the process) BMP reconciliation during 2022-2023 will be critical to align accounting with on the ground conditions (existing local databases uncovered show approximately 5,000 uncaptured/ unreported BMPs)	Technical expertise is present	Dollars for PRP projects are listed in the PRP report but need to be updated based on final, approved PRP's	Currently, Lancaster County MS4s will collectively spend appx. \$1M to achieve a 100,000-lb N reduction in the current MS4 permit cycle. This funding could be leveraged against future permit cycle compliance if it could be spent on watershed-based solutions that includes projects outside of the traditional MS4 area.	\$45,000 per watershed plan: - Dollars would be mostly for BMP's that will be listed in other Priority Initiatives but can receive credit in stormwater work Capital Cost of New BMPs: ~\$69 million (current assumption is ~50%-~60% of BMPs simply need reported)	2021: Identifying and implementing projects that provide multiple benefits and extended community benefits is not the issue with this action. Changes to programmatic/policy requirements, coordination amongst multiple stakeholders 2020: Identifying and implementing projects that provide multiple benefits and extended community benefits is not the issue with this action. Changes to programmatic/policy requirements, coordination amongst multiple stakeholders, and so on inherently slows the overall process down. There are more opportunities (projects) than current funding streams.	Updated performance target to align known progress with new acres still needed to achieve final targets.

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		Vegetated open channel – 442 total acres treated/432 new acres treated Filtering Practices - 137 total acres										
		Permeable Pavement – 8.3 total acres treated/1 new acre treated										
Priori	ty Initiative 3: Creat	te Programmatic Consi	istency									
3.1	Align permit parameters to water quality goals		Lancaster County, municipalities, DEP	Countywide		If a municipality is asked to submit the same information for each plan (102, 537, etc.), they should not need to duplicate efforts like hiring engineers twice or reformulate the data each time. Various DEP and EPA strategies are presently not aligned and improvements are not accounted for across programs (102, 105, 537, NPDES, MS4, etc.)	Technical expertise is present		Staff time at DEP		2021: Consistent data across DEP, other state agencies and funding programs should align to "count" all projects that affect water quality. 2020: The municipalities in the Lititz Run watershed are progressing with this action (but they are currently the only ones). There has been pushback from various departments at DEP regarding this effort. The draft Lititz Run WBP is anticipated to be submitted to DEP during the first quarter of 2021.	
3.2	Create greater consistency and accountability for review, inspections, and documentation of operation and maintenance of permit sites		Lancaster County, municipalities	Countywide	Understanding full funding and human resource needs is still under development	County and municipalities should clarify and implement protocols to ensure consistent reporting for Bay TMDL compliance. Tied to long-term verification processes inventory efforts. Clarification of appropriate procedure to report verifications per the BMP Verification Plan is needed*	Technical expertise is present PennDOT Connect		Consistent inspection requires staff time from LCCD E&S staff and DEP; documentation and reporting protocols for operation and maintenance.	More funding for staff and staff training (details under development)	2021: Human and capital resources are the main limitations for fully implemented programs. There are several efforts underway to use stormwater fees to fund inspection and maintenance activities (including for privately-owned BMPs). 2020: There is strong consensus and support for this action. Human and capital resources are the main limitations for fully implemented programs. There are several efforts underway to use stormwater fees to fund inspection and maintenance	Updates reflect action is part of the bigger picture of capturing and reporting BMPs and long-term verification processes.

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action #	Green - act Description	ion has been completed or is m Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations		s <u>Available</u>	een taken or has o		Annual Progress to Date (2020 + 2021) *add new 2021 progress above the existing 2020 progress. Date each entry.	Reason for Change to Action Item (2022-2023 milestone period)
		Stormwate	r Action To	eam			Technical	Financial	Technical	Financial		
											activities (including for privately-owned BMPs).	
iority	Initiative 4: Proje	ect Funding Nutrient management planning – 10,577 acres	municipalities, private companies	Countywide	Coordination with Ag Action Team	Current state legislation that complicates and/or prohibits various publications in the complex control of the com	Technical expertise is present			Funding and legislation to support larger	2021: Funding mechanism would remove many barriers	Updated action to denote thi consideration affects the ag sector as well.
ie im m 1 pr fo m	eek and acquire creative egislation and funding for implementation, operation, and naintenance of water quality rojects (obtain sufficient funding or implementation and ongoing naintenance of all BMPs ecessary to achieve Bay TMDL ompliance)		related to fertilizer legislation			private initiatives should be addressed to facilitate P3 initiatives and allow for private and public funds to be used collaboratively. The goal for this BMP is taken from the state recommendation, which relies on a change in the fertilizer legislation. Without that legislative change, we can only				goal*	2020: This may always be a limiting factor.	
.2 fo	mploy market-driven solutions or project funding (e.g. tormwater offset, credit trading, nvironmental impact bonds, etc.)		Lancaster County, municipalities	Countywide	On-going	strive to treat 100 acres. Practices such as stormwater offsets and wetlands banking transfers need to be enabled and established by DEP. EIB, green-crowd funding, and other private investments programs must be permitted via legislative change.	Technical expertise is present			Funding	2021: Efforts continue 2020: Efforts have been underway implementing strategies or components of market-driven solutions (developer implemented regional stormwater management projects, social impact bonds, mitigation banking, and so on). Legislative or programmatic support would be ideal to knocking	
											down remaining barriers for desired actions related to P3 efforts.	

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		Stormwater	r Action To	eam			Technical	Financial	Technical Financial		
4.3	Revise funding criteria to ensure alignment with adopted policy and planning goals		Lancaster County MPO/TIP, Smart Growth Funds, Lancaster County Ag Preserve Board, LGH Lighten Up Lancaster	Countywide	On-going	Increase funding for Green Infrastructure and water quality BMPs for preserved farms, transportation and bridge projects, and complete streets	Technical expertise is present		Funding	2021: Water quality and regional projects have seen greater emphasis in local funding programs. Technical resources are needed to develop master list of projects in county to tie together limited resources. 2020: There is consensus this is needed, but limits to financial	
4.4	Build water quality improvement measures into capital and maintenance projects	Dirt and Gravel Roads E&S — 224,245 total linear feet/181,151 new linear feet	Municipalities, Municipal Authorities, Lancaster County Conservation District Watershed team for Dirt and Gravel Roads program	Countywide	2025	Increase # of green infrastructure projects and water quality BMPs installed with municipal capital and maintenance projects			Capital Cost of new BMPs: ~\$2.88 million	resources are real. 2021: Continuing as originally envisioned. 2020: The Dirt & Gravel Road/Low-Volume Roads program is very popular (even amongst boroughs and urbanized areas). Several municipalities have been implementing true asset management programs that provides considerations for stormwater facilities and water quality improvements in other focus areas (e.g. transportation improvements).	Updated performance targets to align known progress with new acres still needed to achieve final targets
riori	ty Initiative 5: Ident	ify alternate sources o	f project ider	ntification						,	
	Identify projects from hazard		Municipalities, Lancaster County	Countywide	On-going	Regular review of hazard mitigation plans Limited staffing to review materials		Dirt and Gravel Roads program and dollars DCNR buffer		2021: Continuing as originally envisioned. 2020: This is becoming more normal in overall project development and	
5.1	mitigation planning initiatives							grants		implementation efforts. However, human and capital resource limitations slow efforts to fully implement and coordinate/prioritize opportunities.	
5.2	Identify projects from municipal capital improvement plans		Municipalities, Municipal	Countywide	On-going	Regular review of municipal capital improvement plans		Dirt and Gravel Roads program and dollars		2021: See Action 5.1 2020: See Action 5.1	

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			Authorities, Lancaster County			Limited staffing to review materials		DCNR buffer grants				
5.3	Identify projects from local, county, and state infrastructure improvement plans		Municipalities, Municipal Authorities, Lancaster County	Countywide	On-going	Regular review of local, county, and state infrastructure improvement plans Limited staffing to review materials		Dirt and Gravel Roads program and dollars DCNR buffer grants			2021: See Action 5.1 2020: See Action 5.1	
5.4	Identify projects from watershed plans		Municipalities, Conservation District, Watershed groups, Lancaster County	Countywide	On-going, with emphasis on delisting strategy priority locations	Regular review of watershed plans Limited staffing to review materials		Dirt and Gravel Roads program and dollars DCNR buffer grants			2021: See Action 5.1 and watershed plans provided a starting point for the delisting strategy 2020: See Action 5.1	Watershed plans provided a starting point for the delisting strategy
riori	ty Initiative SR1: St	ream Restoration										
		In-stream restoration - Urban (35,180 total linear ft/35,179 new linear feet)	Municipalities, LCCD, WSI, watershed groups, DTU, USFWS, LandStudies, USACE, DEP, Lancaster County Clean Water	Contiguous projects in priority watersheds TBD Specific sites TBD based on	2019 – 2025 (and beyond)	As site specific details become available, we will use the alternative BMP template for floodplain and stream restoration projects with legacy sediment.	Practice Keeper as data hub for permits and projects	319 funding for Mill Creek, Conowingo, and Conewago	Outreach staff to make initial contact with landowners	Funding	2021: Projects have been implemented but data management has not caught up to be able to track implementation progress. CAP funding is providing another source of funding for	Updated performance targets to align known progress with new acres still needed to achieve final targets
R1.1	50 projects plus basic, cost effective monitoring (field inspections) of before and after water quality results that are shared (include sourcewater protection work)	In-stream restoration – Non-urban (138,948 total linear ft/76,775 new linear feet)	Consortium, DEP, PAFBC, EPA	opportunity, permit cycles, and compliance needs The intention is to address		Lack of funding available to achieve the projects at the pace we need Long permit timelines	Data experts like the Academy of Natural Science, SRBC, WSI, Chesapeake Conservancy, PSU, and more	Growing Greener funding	Permit processors (Harrisburg-based work)	Capital Cost of new BMPs: ~\$58 million	implementation but funding remains the limiting factor. 2020: There is no shortage of opportunities and potential projects. Shortage of financial resources is the only limiting	
		Wetland restoration/creation in floodplain – 452 total acres/266 new acres		issues as well		Presumed contiguous willing landowners when that may not be the case, especially in the short term		Exelon funding	Excavators	\$75,000 per acre of wetland restoration	factor.	

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SR1.2	Dam removal notification system so that appropriate restoration accompanies any removals (programmatic recommendation)		County, PAFBC, Water Science Institute	All areas	2025	Develop an acceptable monitoring protocol that includes a publically viewable format Greater state/federal permit process speed (especially for commercial projects) Current MS4 set up limits municipal interest/availability to participate In general, current municipal ordinances do not make these projects an easy "yes" for a developer. A necessary comprehensive approach with connection between dam removal and restoration work; current situation allows a dam to be removed and the permitee to walk away, which results in much more sediment pollution	County, PSU, watershed specialists, PAFBC	Private funding NFWF funding	Technical assistants to install projects (contractors) and project managers Monitoring equipment and data analysis experts	Add 20% on top of all costs for pre- and post-project work (finding willing land owners, identifying the best project locations, followed by monitoring, maintenance, etc)	2021: Emphasize greater communication and coordination with state agencies prior to scheduled removal. 2020: This became a specific issue in the Chiques Creek watershed and revealed an inherent gap in the overall coordination efforts that have been accomplished. Programmatic/policy changes are requested to address this issue.	Updated action from red to yellow to reflect progress with collaboration and improved communications regarding dam removals. Action expanded from select areas to all areas.
Priori	ty Initiative LP1: Gro	wth Management					I				13340.	
LP1.1	Direct growth to UGA's and VGA's (DGA's). Prioritize redevelopment and infill in DGAs. Build more compactly and efficiently		Municipalities, Lancaster Co Planning Commission (LCPC), and developers.	Countywide (Focus: Designated Growth Areas)	LCPC Growth tracking - 2 year increments	Increase % of new dwellings in UGAs to accommodate projected pop and increase % of new non-residential SF. Increase residential net density to target density for each UGA; 9.0+ DU/Ac, 6.5 DU/Ac or 5.5	Municipalities (Regs & Impl.). LCPC staff for growth tracking			Grants and resources needed by municipalities	2021: Coordinate with LCPC and county planning to coordinate model ordinances around UGAs and VGAs 2020: There is consensus for this action. Economic and political realities limit observance from time to time.	

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						DU/Ac depending on the UGA.						
LP1.2	Utilize low impact development (LID) practices	Conservation Landscaping – 125 total acres	Municipalities, LC Clean Water Consortium, Developers, and LCPC	Countywide (Focus: Designated Growth Areas)	2019-2025	Increase use of LID practices. Municipal participation Developer resistance	Staff of various partners			Capital Cost of new BMPs: ~\$26,000	2021: Baseline component of most stormwater projects (green infrastructure or Glbased elements included on a majority of applications) 2020: This is a fundamental component of implemented projects.	Identified and included new performance target for conservation landscaping
LP1.3	Limit large-lot suburban development in rural areas		Municipalities and LCPC	Countywide (Focus: Designated Growth Areas)	LCPC Growth tracking - 2 year increments	Reduce total acres developed per year in rural areas, and reduce % of new dwellings outside UGAs Municipal participation Developer resistance	LCPC staff for growth tracking				2021: More naturalized open spaces being observed with large-lot subdivisions, which may be the compromise. 2020: There is consensus for this action. Economic and political realities limit observance from time to time.	
LP1.4	Plan to fully serve Urban Growth Areas (UGAs) and align water and sewer service with UGA's	Septic connection of 3,008 total systems (to municipal service)/2,645 new systems	Municipalities, Municipal Authorities and LCPC (education & advocacy)	Countywide (Focus: Designated Growth Areas)	LCPC Growth tracking - 2 year increments	Increase % parcels in UGA with water and sewer service Costs, Municipal participation, Authority participation	LCPC staff for growth tracking			Matching funds to municipalities for Act 537 plans (of approx. \$100,00 per muni)* Capital Cost of new BMPs: ~\$38.2 million	2021: Financial resource limitations still exist. 2020: There is consensus for this action. Economic and political realities limit observance from time to time. Financial resource limitations hinder full realization of this action.	Updated performance targets to align known progress with new acres still needed to achieve final targets

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		Stormwate	er Action Te	eam			Technical	Financial	Technical	Financial		
LP1.5	Plan for appropriate wastewater management in rural areas	Septic pumping of 10,000 systems	Municipalities, Municipal Authorities, PA DEP and LCPC	Countywide (Focus: Rural Areas)	2019-2025	Reduce number of failing on-lot disposal systems (OLDS) Costs, Stricter regulations required from state, municipal participation				Funding for countywide system (details TBD)	2021: Efforts under consideration to collect data on total septic systems, annual pump outs, condition and immediate failures. Coordinate with Sewer Authorities for service areas and areas to upgrade. 2020: There is consensus for this action. Economic and political realities limit observance from time to time. Financial resource limitations hinder full realization of this action.	Matching a system similar to Chester County would be ideal to manage this action.
LP1.6	Adopt and/or Update Act 537 Plans		Municipalities, PA DEP, and LCPC	Countywide, with emphasis on priority areas determined by de-listing strategy	2019-2025	Increase number of municipalities that adopt or update their Act 537 Plans Costs, Stricter regulations required from state, municipal participation				Matching funds to municipalities for Act 537 plans (approx. \$100,000 per muni)*	2021: Due to limited resources, needs will originate in priority areas 2020: Financial resource limitations hinder full realization of this action. This may be resolved through WBPs and fully integrated water resource plans as noted in previous initiatives.	The de-listing strategy provides a mechanism to target resources, focus, implementation activities, etc. with limited resources into manageable areas (catchments). Objective is to address a few catchments at a time and move on to a new group.
LP1.7	Utilize TDRs for Ag land, woodlots and other natural areas as a tool to promote greater density in UGAs/VGAs		Municipalities, LCPC (guidance)	Countywide	2019-2025	Increase # of muni using TDRs. Explore possibility of a pilot TDR ordinance between multiple municipalities Logistical hurdles, municipal participation				Funding/grants to revise or draft ordinances	2021: Elements are being observed in select areas. 2020: This is a complicated subject, but interest in adopting this approach or elements of this approach is growing.	

	Phase 3 Watersh	ned Implementation Plan	(WIP) Progres	s and Miles	tones Templa	ite								
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Action #	Action Description Performance Target(s) Responsible # Party(ies) and Partnerships Partnerships Partnerships Responsible # Recommendations Partnerships Partnersh													
		Stormwate	r Action Te	eam			Technical	Financial	Technical	Financial				

		Municipalities, with	Countywide	2019-2025	Increase number of	Grants and	2021: Limitations hinder
LP2.1	Improve Planning & Design and Utilize Integrated Water Resource Planning and Management (IWRP	LCPC	Countywide	2019-2023	Comprehensive watershed management, water/sewer infrastructure, rural wastewater management, stormwater management and green infrastructure	funding (\$50,000 - \$100,000 per plan/ordinance)	progress. 2020: There is consensus for this action. Economic and political realities limit observance from time to time. Financial resource limitations
	& IWRM)				plans Funding. Municipal participation		hinder full realization of this action.
LP2.2	Amend or adopt local ordinances that minimize stormwater runoff and regulate development that protects water resources (tied to Act 167 focus areas and goals)	Municipalities, with LCPC	Countywide	2019-2025	Increase number of ordinances municipalities adopt that minimize stormwater runoff and regulate development that protects water resources; including Zoning, SALDO, stormwater and floodplain management, well head protection ordinances, conservation zoning district and natural resource protection standards) Municipal part	Funding/grants to revise or draft ordinances (\$50,000 - \$100,000 per plan/ordinance)	2021: Sub-committee of Stormwater Action Team to develop model ordinances with municipal officials. 2020: There is consensus for this action. Economic and political realities limit observance from time to time.
LP2.3	Revise Project Funding Criteria	Municipalities, LCPC, Lancaster Co MPO (TTAC), DEP and DCNR	Countywide	2019-205 (i.e. 2019- 2022 MPO/TIP)	Funding criteria should be revised to ensure alignment with adopted policy and planning goals. Current PennDOT, DEP, and DCNR regs do not require consistency. Consistency between Central office and districts. Coordination between MPO and municipalities	Need to leverage existing funding	2021: Progress has been made and several local, county, and state funding programs have shifted to include water quality goals part of funding criteria. Additional technical resources needed. 2020: Programmatic and/or policy changes outside the control of local governments is necessary for this action to be fully realized.

	Phase 3 Watersh	ed Implementation Plan	n (WIP) Progres	s and Miles	tones Templa	ate						
	<u>Green</u> - acti	on has been completed or is m	noving forward as p	lanned <u>Yell</u>	ow - action has e	ncountered minor obs	stacles <u>Red</u> - a	ection has not be	een taken or has	encountered a	serious barrier	
Action #	Description	Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources <u>Available</u> Technical Financial		Resources <u>Needed</u> Technical Financial		Annual Progress to Date (2020 + 2021) *add new 2021 progress above the existing 2020 progress. Date each entry.	Reason for Change to Action Item (2022-2023 milestone period)
		Stormwate	er Action 16	eam								
LP2.4	Water quality improvement measures should be built into capital and maintenance projects		Municipalities, Municipal Authorities, LCPC, Lancaster MPO (TTAC)	Countywide	2019-2025 (i.e. 2019-2022 MPO/TIP)	Increase # of green infrastructure projects installed with municipal capital and maintenance projects Municipal participation, funding	Various stakeholders. (i.e. PennDot Connects Program, and County LRTP)			Need to leverage existing funding	2021: Several instances where the development of parks is intersecting with water quality improvement projects. STORY LINKS > https://www.lancasterpublicart.com/cullitonpark https://lancastersciencefactory.org/cullitonpark/ https://pacleanwateracademy.remote-learner.net/mod/paqe/view.php?id=4342 https://lancastercleanwaterpartners.com/2020/07/murry-ridge-park-green-infrastructure-improvements/ 2020: Programmatic and/or policy changes outside the control of local governments is	Updated action from red to yellow as approaches are observed more and more.
LP2.5	Practice regional and place-based planning and analysis		Municipalities, LCPC	Countywide	2019-2025	Increase # of municipalities with regional comprehensive plans and natural resource and water resource plans Municipal participation, resistance to regionalization	LCPC and municipal staffs				necessary for this action to be fully realized. 2021: Underway, albeit minimal locations STORY LINK > Save the Bay Magazine - Spring 2020 - Chesapeake Bay Foundation (cbf.org) (p.7) 2020: There is consensus for this action. Economic and political realities limit observance from time to time.	

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Action #	Description	Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources	<u>Available</u>	Resources	s <u>Needed</u>	Annual Progress to Date (2020 + 2021) *add new 2021 progress above the existing 2020 progress. Date each entry.	Reason for Change to Action Item (2022-202 milestone period)
		Stormwate	er Action Te	eam			Technical	Financial	Technical	Financial	,	
LP2.6	Utilize official maps for regional stormwater management and protection of natural resources		Municipalities, LCPC	Countywide	2019-2025	Increase number of municipalities participating in regional official maps Municipal participation, lack of municipal familiarity with official maps under MPC	LCPC and municipal staffs			Funds and ability to municipalities for utilizing official maps for regional SWM*	2021: Political and regulatory restrictions limit use of official maps. Credit could be offered in MS4 permit for those municipalities that utilize official map with water quality elements. 2020: There is consensus for this action. Economic and political realities limit	There is strong consensus for this action to proceed, but incentives and/or political hurdles need to be addressed
LP2.7	Utilize agricultural preservation process to promote greater implementation of agricultural BMPs		Lancaster County Agricultural Preserve Board, Lancaster Farmland Trust, Lancaster County Conservation District	Countywide (Focus: Rural Areas)	2-19-2025	Increase number of BMPs implemented on preserved farms The purchase of development rights does not carry BMP obligations Ag Action Team coordination and tie-in to Action LP3.5. Multiple planning and programmatic tools will be necessary to expand pockets of success (zoning (limit # of homes or subdivisions that can exist on ag zones property), TDRs, easements, etc.). Passage of SB64 by the House would allow private land trusts access to state funding for easement acquisition for farm preservation.* With significant ag land use in Lancaster County, multiple tools and avenues for preservation will be necessary to improve BMP	APB and LFT staff				observance from time to time. 2021: Expanding considerations and exploring needed/ additional tools to increase ag preservation beyond simply promoting the need. 2020: Ag Action Team has taken the lead	Limited tools and avenues for preserving ag land is an observed bottleneck in increased BMP implementation. Expansion of tools and removal of several barriers will inherently lead to greater farmland preservation and BMP implementation rates.

	Phase 3 Watersh	ed Implementation Plar	n (WIP) Progres	s and Miles	tones Templa	ate						
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Action #	Description	Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources <u>Available</u>		Resources <u>Needed</u>		Annual Progress to Date (2020 + 2021) *add new 2021 progress above the existing 2020 progress. Date each entry.	Reason for Change to Action Item (2022-2023 milestone period)
	Stormwater Action Team							Financial	Technical	Financial		
LP3.1	Preserve natural and forested lands		Lancaster County Conservancy, Municipalities, LCPC, State	Countywide (Focus: Rural Areas)	2019-2025	Preserve natural lands and land with forest cover (2,000-3,000 acres). Prioritize contiguous areas. Funding, landowner participation	State agencies (Game Comm., State Parks, Forestry, DCNR)	Conservation Fund State funding	Staff & maintenance	County funding	2021: Preservation is still a fundamental component of efforts, but retirement to open space is not the ideal metric 2020: There is strong consensus and realized actions associated with this initiative. Human and financial resources for outreach, long-term maintenance, etc. are the primary limiting hurdles still working through.	If a farmer chooses to retire land, it will be welcomed; but we will not request a farmer to retire land.
LP3.2	Conserve natural resources and services throughout Lancaster County's urban, suburban and rural areas		Municipalities, Lancaster County Conservancy Lancaster County Parks, LCPC	Countywide		Funding, landowner participation Increase acreage (or number) of areas being conserved for wise use & management to maintain ecological functions (wetlands, steeps slopes, erodible soils, forest blocks < 100 acres.					2021: Human and financial resources for outreach, long-term maintenance, etc. are the primary limiting hurdles still working through. One example such as turf to meadow BMP could be employed in suburban and rural areas. Improvements in model ordinances might assist with this (see Action LP1.2) 2020: There is strong consensus and realized actions associated with this initiative. Human and financial resources for outreach, long-term maintenance, etc. are the primary limiting hurdles still working through.	

	<u>Green</u> - actio	on has been completed or is n	noving forward as p	olanned <u>Yell</u>	ow - action has en	countered minor obst	acles <u>Red</u> - a	ction has not be	en taken or has	encountered a	serious barrier	
Action #	Description	Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resources	s <u>Available</u>	Resources <u>Needed</u>		Annual Progress to Date (2020 + 2021) *add new 2021 progress above the existing 2020 progress. Date each entry.	Reason for Change to Action Item (2022-2023 milestone period)
		Stormwate	er Action Te	eam			Technical Financial	Financial	Technical	Financial	progressi Date each entry.	
LP3.3	Restore ecological connections and natural resource systems throughout Lancaster County's urban, suburban and rural areas		Municipalities, Lancaster County Parks, LCPC, Lancaster County Conservancy	Countywide	2019-2025	Increase number of ecological connections through restoration efforts. Funding, landowner participation					2021: Some funding programs are giving priority to projects in close proximity to other projects, headwaters, and natural areas. 2020: There is strong consensus and realized actions associated with this initiative. Human and financial resources for outreach, long-term maintenance, etc. are the primary limiting hurdles still working through.	
LP3.4	Neighborhood and regional parks, greenways and trails (5 acres in county/regional parks and 10 acres in local/municipal parks)		Municipalities, Lancaster County Parks, LCPC, Lancaster County Conservancy	Countywide	Check progress towards goal in 2025	Increase number and acreage of neighborhood and regional parks, greenways and trails. Adopted County standard: 15 acres of parkland/1,000 residents. Funding, County and municipal participation				Funding and grants	2021: Several municipalities are taking on this goal (Conewago Restoration Project, Ephrata Project CAP application) 2020: There is strong consensus and realized actions associated with this initiative. Human and financial resources for outreach, project implementation, long-term maintenance, etc. are the primary limiting hurdles.	
LP3.5	Utilize TDRs as a tool to preserve high quality ag land, woodlots and other natural areas		Municipalities, LCPC	Countywide	2019-2025	Increase # of muni using TDRs. Explore possibility of a pilot TDR ordinance between multiple municipalities Logistical hurdles, municipal participation Tie-in to Action LP2.7					2021: Lancaster has experienced an increase in residential and commercial development. TDRs (or similar) have not been historically needed to assist in the development process. TDRs are now present in Caernarvon, Manheim, Penn, Warwick, West Hempfield, and West Lampeter Townships.	Action status upgraded from red to yellow due to additiona municipalities implementing TDR programs. Tie-in to Action LP2.7 is a recognition that multiple tools and programmatic changes will help reduce barriers to broade implementation.

	Phase 3 Watershed Implementation Plan (WIP) Progress and Milestones Template													
	Green - action has been completed or is moving forward as planned Yellow - action has encountered minor obstacles Red - action has not been taken or has encountered a serious barrier													
Action Description Performance Target(s) Responsible Party(ies) and Partnerships Partnerships Partnerships Partnerships Performance Target(s) Responsible Party(ies) and Partnerships Resources Potential Implementation Challenges or Resources Available Resources Needed										<u>Needed</u>	Annual Progress to Date (2020 + 2021) *add new 2021 progress above the existing 2020 progress. Date each entry.	Reason for Change to Action Item (2022-2023 milestone period)		
		Stormwate	r Action Te	eam		Technical	Financial	Technical	Financial					

111011	ty Initiative LP4: Tre	e Carlopy										
LP4.1a	Conduct a tree canopy assessment (Conduct a new tree canopy assessment in 2020, to compare to 2010 baseline)		County, Municipalities, Lancaster County Conservancy, Chesapeake Bay Conservancy	Countywide	2020	Funding, staffing	DCNR	CBF K10 Campaign, DCNR	GIS technology and staff		2021: Baseline does not exist for the county, but efforts are underway in key areas to improve canopy. 2020: Activities are moving forward, but human and financial resource limitation hinder timely progress.	
LP4.1b	Set tree canopy targets, and implement tree canopy action plans at county and municipal level		LCPC, Municipalities, Lancaster County Conservancy, and Lancaster Clean Water Consortium.	Countywide	2019-2025	Increase number of municipalities setting targets Funding, staffing Possibly select 3 priority large watersheds for initial imp.	DCNR Lancaster County GIS	CBF K10 Campaign, DCNR	GIS technology and staff		2021: See LP4.1a 2020: Activities are moving forward, but human and financial resource limitation hinder timely progress.	
LP4.1c	Increase tree canopy cover	Tree planting of 10 total acres (urban tree canopy) Urban forest planting – 27 total acres/23 new acres		Priority watersheds	2030	Increase % tree canopy cover in priority watersheds by 2030 Municipal buy-in	Tree Canopy Report Releaf Report (DCNR)			Capital Cost of new BMPs: ~\$21,000	2021: See LP4.1a 2020: Definitive buy-in and projects implemented.	Updated performance targets to align known progress with new acres still needed to achieve final targets
LP4.2a	Create a model tree preservation ordinance or "Planning Guide"		LCPC, municipalities, developers	Countywide	2019-2025	Adopt a model tree preservation ordinance or "Planning Guide"	PA Land Trust Assoc. (PALTA). DCNR				2021: Ordinance sub-team being formed within Action Team 2020: No update at this time.	

	Phase 3 Watershed Implementation Plan (WIP) Progress and Milestones Template											
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Action #	Description	Performance Target(s)	Responsible Party(ies) and Partnerships	Geographic Location	Expected Timeline	Potential Implementation Challenges or Recommendations	Resource	s <u>Available</u>	Resources <u>Needed</u>	Annual Progress to Date (2020 + 2021) *add new 2021 progress above the existing 2020 progress. Date each entry.	Reason for Change to Action Item (2022-2023 milestone period)	
		Stormwater	Action Te	eam			Technical	Financial	Technical Fina	ncial		
LP4.2b	Adopt (or amend) tree preservation ordinances at municipal level		Municipalities, developers, LCPC	Countywide	2019-2025	Increase number of tree preservation ordinances adopted Municipal capacity	PALTA			2021: See LP4.2a 2020: No update at this time.		
LP4.2c	Enforce existing landscape ordinances and existing or new tree preservation ordinances		Municipalities, developers	Countywide	2019-2025	Preserve existing landscaping and trees Municipal Capacity, Developer/land owner cooperation			Municipal staffing	2021: See LP4.2a 2020: Conflicts between ordinance language and water quality goals have been encountered.		
LP4.3	Education and Outreach		Lancaster County Conservancy, Tree Tenders, LCPC, DCNR	Countywide	2019-2025	Conduct trainings				2021: Coordinate with City of Lancaster and Alliance for the Chesapeake Bay Green Infrastructure Coordinator 2020: Human and financial resource shortfalls limit capacity and ability to expand training efforts.		

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

Each county-based local area will use this template to identify:

- 1. Inputs These are both existing and needed resources, public and private, to implement the identified priority initiative. These include both technical and financial resources, such as personnel, supplies, equipment and funding.
- 2. Process what is each partner able to do where and by when. These are the action items listed under each priority initiative.
- 3. Outputs and outcomes both short and long-term. These are the priority initiatives identified by each county. The performance targets are the intermediate indicators that will measure progress.
- 4. Implementation challenges any potential issues or roadblocks to implementation that could impede outputs and outcomes.

Asterisk: Place an asterisk next to the action number(s) for action items that appear in both the County Planning and Progress Template and the Programmatic Recommendations Template.

For each Priority Initiative or Program Element: Use the fields, as defined below, to identify the inputs and the process that will be followed to achieve each priority initiative. This is the "who, what, where, when and how" of the plan:

Description = What. This may include programs that address prevention, education, or as specific as planned BMP installations that will address the Priority Initiative. A programmatic or policy effort will require some ability to quantify the anticipated benefits which will allow calculation of the associated nutrient reductions.

	Phase 3 Watershed Implementation Plan (WIP) Progress and Milestones Template													
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Action Description Performance Target(s) Responsible Geographic Expected Potential Implementation Party(ies) and Potential Potential Implementation Challenges or Resources Available Resources Needed *add new 2021 progress Action*									Reason for Change to Action Item (2022-2023 milestone period)					
		Stormwate	r Action Te	eam	Technical Financial	Technical Financial								

Performance Target = How. This is an extension of the Description above. The Performance Target details the unique BMPs that will result from implementation of the Priority Initiative and serves as a benchmark to track progress in addressing the Priority Initiative. Performance Targets may be spread across multiple Responsible Parties, Geographies, and Timelines based on the specifics of the Initiative.

Responsible Party(ies) = Who. This is/are the key partner(s) who will implement the action items though outreach, assistance or funding, and who will be responsible for delivering the identified programs or practices.

Geographic Location = Where. This field identifies the geographic range of the Priority Initiative, range of the Responsible Party, or planned funding/resources. *NOTE: Resource limitations alone should not limit potential implementation as additional funding may become available in the future.*

Expected Timeline = When. Provide the expected completion date for the planned activity. This should be a reasonable expectation, based on knowledge and experience, that will aid in tracking progress toward addressing the Priority Initiative.

Resources Available: Technical & Funding = This field will note technical and financial resources secured/available to implement the program (Description). This is the total of the resources identified in the County Resources Inventory Template below allocated to the priority initiative as a whole; or, if available, to each action.

Resources Needed: Technical & Funding = This field will note technical and financial resources needed/outstanding to implement the program (Description). This is the total of the additional resources projected and identified as needed in the County Resources Inventory Template below allocated to the priority initiative as a whole; or, if possible, to each action.

Potential Implementation Challenges/Issues = This field will note challenges and issues that may delay program implementation (Description).