

**January 1, 2018 – December 31, 2019 Jurisdiction Programmatic Two-Year Milestones**

<b>Agriculture</b>				
<b>Target Date</b>	<b>Milestone (WIP page reference)*</b>	<b>Deliverable</b>	<b>Lead Agency</b>	<b>Comments/Status Updates</b>
Ongoing	Implement Agricultural Compliance and Enforcement Strategy.	<p>Inspection &amp; Compliance Effort. DEP, in coordination with County Conservation Districts (CDs), will use a targeted approach (using DEP regional office Waterways and Wetlands staff).</p> <p>50 inspections will be performed per CD Bay Technician; 100 inspections will be performed per DEP Regional Office Water Quality Specialist per year.</p> <p>Inspection compliance results will be reported in annual milestone updates</p>	DEP and County Conservation Districts (CDs)	
April 2018	Reissue PAG-12 General Permit for CAFOs	Reissue the PAG-12 General Permit for CAFOs and notify affected permittees of the changes.	DEP	The PAG-12 General Permit was reissued on April 1, 2018. DEP transmitted notice to approximately 275 permittees of the changes in the reissued permit on April 4, 2018.

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December 2019	Begin work on plan implementation inspection phase (Phase 2) of the Agricultural Compliance Inspection Program	<p>Develop draft SOP detailing the processes for inspection of non-CAFO farms to assess their implementation of erosion control and manure management plans</p> <p>Initiate pilot program to test proposed plan implementation inspection processes for consideration for inclusion in program guidance</p>	DEP, Conservation Districts	
September 2019	Approve a revised P-index planning tool to be used for nutrient management planning efforts in PA.	<p>Pilot test the revised P-index planning tool on select farms within PA to assess its practicality and effectiveness.</p> <p>Report to NRCS, SCC and DEP the results of the pilot testing process</p> <p>Incorporate revisions to the proposed revised P-index based on the results of the pilot testing process.</p> <p>Obtain approval from the agencies to incorporate the new P-index tool into future nutrient management planning efforts using an established phase in strategy.</p>	Penn State University, NRCS, State Conservation Commission (SCC), DEP	

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<p>July 2019</p>	<p>Initiate implementation of Pennsylvania’s Agriculture Conservation Stewardship (PACS) Program</p>	<p>Finalize draft program guidance and farm assessment form.</p> <p>Perform a “table top” exercise involving third party verifiers, conservation districts, and agency staff to test out the functionality of the draft program processes.</p> <p>Work with program workgroup to finalize the program criteria, using the input from the table top exercise.</p> <p>Train third party private sector verifiers and county conservation district staff to authorize their involvement in the PACS program.</p> <p>Pilot the program in select counties to initiate program implementation and to assess if any additional revisions are needed to the program.</p>	<p>PA Dept. of Agriculture, State Conservation Commission, DEP, PACS Stakeholders Workgroup</p>	

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<p>June 2019</p>	<p>Pursue resources for additional agricultural and stormwater BMP implementation in the Fishing Creek watershed, a targeted priority watershed.</p>	<p>Install in-stream habitat restoration and streambank stabilization BMPs along several reaches of the Fishing Creek watershed in Lancaster County as part of a NFWF grant sponsored by PDA.</p> <p>Consider the augmentation of a current NFWF grant in the Fishing Creek watershed in Lancaster County to provide resources for the implementation of agricultural and stormwater BMPs identified in resource management plans developed under the NFWF project.</p> <p>Install livestock exclusion fencing and in-stream livestock crossings along several reaches of the Fishing Creek watershed.</p>	<p>PDA SCC DEP DCNR PA Fish &amp; Boat Commission Other partners</p>	<p>The PA Dept. of Agriculture (PDA) is sponsoring a NFWF grant focused on development of conservation plans; livestock stream exclusion; plan implementation; implementation of an innovative income-producing forested buffer component; demonstration of a direct correlation between BMPs and herd health; and water quality monitoring. The estimated numeric outputs are 39 Manure Management and 28 Ag E&amp;S plans; 73,761 linear feet of exclusion fencing; 50 off-stream watering systems; and 30 crossings.</p>
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September 2019	Investigate the incorporation of alternative manure treatment technologies and other potential strategies to address areas of excess manure nutrient generation.	<p>PA’s Phase 3 WIP will identify areas (counties) of excess manure nutrient generation in relation to crops grown in the county.</p> <p>PA’s Phase 3 WIP will identify various strategies to minimize nutrient imbalances in areas of excess manure nutrient generation, including the incorporation of manure treatment technologies as they are determined to be feasible.</p>	DEP, PA WIP Agriculture Workgroup, PA WIP Steering Committee	
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<b>Forestry</b>				
<b>Target Date</b>	<b>Milestone (WIP page reference)*</b>	<b>Deliverable</b>	<b>Lead Agency</b>	<b>Comments/Status Updates</b>
2018 – 2019 (Ongoing)	Buffer and Forestry Outreach	Annually award Community Conservation Partnership Program, TreeVitalize, and PennVest grants to partners for buffer installation.	DCNR	
		Implement DCNR’s NFWF grant, StreamReLeaf, which will result not only in buffers on the ground, but a communication strategy to inform additional targeted outreach and an improved tracking system for riparian forest buffers.		
		Advance outreach and communications through hosting an annual summit, publishing a bi-monthly newsletter, developing additional outreach materials, and participating in events.		
		Develop and implement the Phase 3 WIP for forest buffers, tree canopy, and land conservation.		
		Continue to convene the Riparian Forest Buffer Advisory Committee.		

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October 2019	Develop an income - producing forested buffer pilot project.	Install income-producing forested buffers along several reaches of the Fishing Creek watershed in Lancaster County, as part of a NFWF grant sponsored by PA Dept. of Agriculture (PDA)	PDA, SCC, DEP, DCNR, PA Fish & Boat Commission Other partners	
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<b>Point Sources: Number of Bay Facilities Who Must Comply with Nutrient Cap Loads</b>				
<b>• Significant Sewage and Industrial Facilities</b>				
<b>Target Date</b>	<b>Milestone (WIP page reference)*</b>	<b>Deliverable</b>	<b>Lead Agency</b>	<b>Comments/Status Updates</b>
This sector has exceeded its WIP milestone goals.	Issue and re-issue NPDES permits to include Annual Net Mass Load limitations (“cap loads”) for all significant sewage and industrial waste dischargers and new dischargers where available capacity does not exist to implement the Chesapeake Bay TMDL.	NPDES permits with cap loads.	DEP	
Ongoing	Improved water quality at POTW outfalls and receiving streams through implementation of a wastewater optimization program. The wastewater optimization program is designed to optimize nutrient reduction through low-cost operational improvements. DEP will target POTWs that are discharging the highest nutrient levels and/or nutrient loadings.	Conduct performance assessments for at least six POTWs annually	DEP	This milestone is also reported in DEP’s semi-annual 106 grant progress reports. DEP will continue to report this in the 106 report.



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June 2019	DEP will attempt to issue the remaining significant industrial discharge permit without cap loads and the two remaining significant Chesapeake Bay permits that EPA had objected to in 2014.	Issue final permits	DEP	
<b>Municipal Stormwater (MS4s)</b>				
<b>Target Date</b>	<b>Milestone (WIP page reference)*</b>	<b>Deliverable</b>	<b>Lead Agency</b>	<b>Comments/Status Updates</b>
July 2018	Launch MS4 electronic annual reporting system to collect BMPs and MS4 activities electronically.	New MS4 annual reporting system.	DEP	
December 2018	Complete initial reviews of Chesapeake Bay Pollutant Reduction Plans that were submitted in September 2017.		DEP	
December 2019	Develop a concept paper for changes that will be pursued for the next round of MS4 general and individual permits starting in 2023, consistent with DEP's Phase III WIP.	Concept paper	DEP	
Ongoing	Continue providing outreach and training to regulated community on MS4 permit implementation.	Ongoing training as needs arise.	DEP	DEP MS4 staff continuously meets with MS4 permittees, consultants and legislators on implementing the requirements of the 2018-2023 permit term and assists DEP regional staff with reviews of PRPs and TMDL Plans.

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September 2019	Provide MS4 inspector training for DEP regional office staff addressing program SOPs, expectations and obligations under the six Minimum Control Measures.	Hold training course for all DEP regional office staff performing MS4 inspections.	DEP, EPA	
December 2018	Provide guidance to encourage inter- and intra-municipal MS4 collaboration to achieve pollutant reduction in localized areas	Framework for implementation of flexible, cost-effective projects.	DEP	
<b>Construction Stormwater (Chapter 102)</b>				
<b>Target Date</b>	<b>Milestone (WIP page reference)*</b>	<b>Deliverable</b>	<b>Lead Agency</b>	<b>Comments/Status Updates</b>
June 2019	Complete a draft PAG-02 General Permit package that is generally consistent with EPA's CGP and achieves objectives agreed upon by DEP and EPA.	Draft PAG-02 General Permit package	DEP	
December 2019	Publish a draft of the PA Stormwater BMP Manual in the Pennsylvania Bulletin.	Draft Stormwater BMP Manual	DEP	

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<b>Trading and Offsets</b>				
<b>Target Date</b>	<b>Milestone (WIP page reference)*</b>	<b>Deliverable</b>	<b>Lead Agency</b>	<b>Comments/Status Updates</b>
December 2018	By compliance year, identify the pollutant reduction activities that generated certified, verified and registered credits and the number of credits associated with each activity that are consistent with the expectations of the TMDL.		DEP	
December 2018	Develop a credit calculation tool(s) for the generation of nonpoint source credits that is consistent with the Chesapeake Bay TMDL and the revised definitions for point source and nonpoint source baseline.		DEP EPA	
September 2019	Revise the Chesapeake Bay Nutrient Trading Tool (NTT) and associated Trading Registry, to allow for their use in calculating and tracking nutrient reductions and marketable credits attributed to BMPs installed in Pennsylvania.	Revised NTT tailored to support and be consistent with PA program regulations and policies  Revised Chesapeake Bay Trading Registry and Marketplace database tailored to support and be consistent with PA program regulations and policies, and link this trading registry to the data reported in the NTT	EPA, DEP	

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December 2019	Revise Nutrient Trading and Offsetting polices, and regulations if necessary, to document state program decisions made to move to a performance based agriculture baseline determination and nutrient credit calculation process.	<p>Revised nutrient trading policies outlining the use of a new performance based agriculture baseline determination and credit calculation process.</p> <p>Draft revised Nutrient Trading and Offsetting regulations, if revisions to the regulations are found to be necessary, to incorporate a performance based agriculture baseline and nutrient credit calculation process.</p>	DEP	
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<b>Tracking and Reporting</b>				
<b>Target Date</b>	<b>Milestone (WIP page reference) *</b>	<b>Deliverable</b>	<b>Lead Agency</b>	<b>Comments/Status Updates</b>
Ongoing	Continue to enhance and build the capability of the BMP Warehouse through ongoing enhancement of the Worldview and Practicekeeper software.	A group of software applications that have a common theme, BMP data, that will serve as a repository for BMP information that must be reported to the Chesapeake Bay program, in addition to providing management tools for other activities.	DEP	
December 2019	Improve/revise DEP program guidance and data management systems to track and verify increased compliance and inspection program, to include DEP Agricultural Compliance, Enforcement, and Inspection Standard Operating Procedures (SOP) for Non-CAFO farms, Bay Ag Inspection SOP, and associated inspection reports.	Enhanced modules of Practicekeeper and Worldview for use to track and verify program implementation	DEP	
May 2018	Develop a strategy for enhancements to Pennsylvania’s BMP Verification Program Plan to include lessons learned from the Penn State Survey, the NRCS Remote Sensing Pilot Project completed in the Potomac Basin, the ongoing CTIC surveys and other appropriate efforts.	Strategy for the enhancement of Pennsylvania’s existing BMP Verification Program.	DEP	

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May 2018	Revise Chesapeake Bay Regulatory Accountability Program grant workplan and budgets in accordance with the strategy to fund future BMP verification efforts.	FY19 grant workplan	DEP	
July 2018	Revise Pennsylvania’s BMP Verification Program Plan in accordance with the strategy, if needed.	Revised, if necessary, Pennsylvania BMP Verification Program Plan	DEP/EPA	
August 2018	Begin implementation of the revised Pennsylvania BMP Verification Program Plan, once approved by EPA.		All identified parties in the Program Plan	
<b>Federal Facilities</b>				
<b>Target Date</b>	<b>Milestone (WIP page reference)*</b>	<b>Deliverable</b>	<b>Lead Agency</b>	<b>Comments/Status Updates</b>
November 2018	Enter Federal Facility BMP data into NEIEN for 2019 Progress Run	BMP Implementation and Reporting	CBP	
November 2019	Enter Federal Facility BMP data into NEIEN for 2020 Progress Run	BMP Implementation and Reporting	CBP	
<b>Other/Category</b>				
<b>Target Date</b>	<b>Milestone (WIP page reference) *</b>	<b>Deliverable</b>	<b>Lead Agency</b>	<b>Comments/Status Updates</b>
December 2019	Continue Legacy Sediment and Aquatic Ecosystem Restoration (LSAER) Implementation and Tracking	BMP Implementation and Reporting of approximately two projects per year.	DEP	Work to establish LSAER BMP as a stand-alone practice by working through the Bay workgroup and expert panel protocols.

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<b>WIP Planning and Implementation</b>				
<b>Target Date</b>	<b>Milestone (WIP page reference)*</b>	<b>Deliverable</b>	<b>Lead Agency</b>	<b>Comments/Status Updates</b>
July 2018	Definition of the expected reductions from (1) existing programs and policies, (2) any enhancements to these programs and policies or any new innovations or initiatives and (3) a list of the priority, most effective practices to be utilized by sector.	County-specific summary of this analysis to include defined planning goal, progress made so far and remaining level of effort.	WIP Technical Support Group, WIP Steering Committee and Workgroups, DEP	
February 2018	A clear description of the water quality trends and water quality impairment in the watershed.	Watershed Story-line.	DEP, SRBC	
August 2018	The development of a county based story that combines the results of the above two milestones for use in:  (1) the identification of any gap in implementation and resources, (2) the development of county-based local planning goals, and (3) messaging as part of the Local Engagement Strategy.	County-specific “Toolboxes” or summaries.	WIP Technical Support Group, DEP, SRBC, EPA Bay Program Office	
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Summer 2018	Further review of the 12 Watershed Agreement Outcomes that have been identified as having the most potential for	Incorporation of Watershed Agreement outcomes into action plans and text of Phase 3	WIP Workgroups, DEP and EPA CBPO	

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	co-benefit impacts when combined with the Phase 3 WIP.	WIP as appropriate.		
February through August 2018	Development and implementation of the Local Engagement Strategy.	Public and local leader engagement and input.	DEP, WIP Steering Committee and Workgroups	
March through October 2018	Development and implementation of a process for the development of county-based Local Planning Goals. The process will be piloted in the two counties defined in the Tier 1 (highest loading) area for incorporation in the Phase 3 WIP. (York and Lancaster) An additional two counties will be in the Potomac (Franklin and Adams County). Process will then be modified and incorporated into the Phase 3 WIP to include a timeline for implementation in future 2-year milestones to finalize plans for the Local Planning Goals in the remaining counties where additional reductions are needed.	Local Planning Goals plan development process and final plans for at least two counties.	Local Area Goals Planning Workgroup, other WIP workgroup co-chairs, DEP CBPO, Technical Support Group	
August through September 2018	Draft the Phase 3 WIP.		DEP	
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December 2018	30 Day Public Comment Period.	Written comments.	Stakeholders, General Public	



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April/May 2019	Develop a Comment Response Document to the comments received during the 30-day public comment period held when the draft Phase 3 WIP is released.	Comment/Response Document.	DEP, WIP Workgroup Co-Chairs and Steering Committee	
March 2019	Submit final draft Phase 3 WIP to the Bay Program Partnership for review and comment.	Draft Phase 3 WIP.	DEP, with recommendations from the WIP Steering Committee	
May 2019	Respond to comments received from the Bay Program Partnership.	Revised Draft Phase 3 WIP.	DEP, with recommendations from WIP Workgroups and Steering Committee	
June 2019	Finalize and post the approved Phase 3 WIP on the DEP website. Begin implementation.	Final Phase 3 WIP.	DEP	

\* As part of the adaptive management process for achieving water quality goals, jurisdictions may submit programmatic milestones that modify, are in place of, or are in addition to milestones listed in their Phase I WIPs so long as the jurisdiction can demonstrate that they will be as effective toward meeting water quality goals.